



**A Review of**  
**Clara Bloomfield-Moore's**  
**Keely and His Discoveries**

**Anonymous**

# Review of Keely and His Discoveries

## INDEX

Acceleration (Negative) .....	14
Aerial (Navigation).....	8
Assimilation (Law of).....	1, 36
Atomic (Dissociation) .....	2
Attraction.....	22
Chords (Antagonistic) .....	6
Chords (Ethereic).....	3
Chords (of Mass). .....	6, 7, 39
Cohesive (force).....	10, 25
Color .....	30
Concordance .....	14
Concordance (Sympathetic).....	16
Concordant (Link) .....	11
Concussion (Vibratory).....	5
Current (Ethereic).....	4
Current (Triune).....	10
Depolar. ....	35
Depolarization.....	12
Diatonic .....	14, 33
Differential (Vibration) .....	11
Discordance.....	6
Dissociation (Molecular).....	32
Dominant.....	11, 33, 34, 36, 37, 38
Electricity. ....	2, 22, 40
Energy.....	23
Enharmonic .....	10, 11, 34, 38
Evolution .....	33, 37
Evolution (Tri vacuum).....	5
Example.....	15, 17, 18, 27, 31
Exciters .....	16
Focalization.....	9, 14, 37
Genius.....	12
Graduation (of Machines) .....	15
Gravity.....	3, 7, 12, 25, 34, 35
Harmonic.....	10, 34, 38
Harmony .....	6
Heat.....	25
Inaudible (Vibrations) .....	23, 40
Latent (Energy).....	14, 27
Liberator .....	2
Light.....	22, 25, 40
Magnet.....	9
Magnetic (Needle) .....	16, 25
Mathematics .....	5
Molecular (Dissociation).....	2
Negative (Vibration).....	16
Negatizer (Vibratory) .....	14
Neutral (Center) .....	4, 11, 20
Odour .....	21, 35
Outreach (Sympathetic).....	25
Outreach (Positive Sym.) .....	26

## Review of Keely and His Discoveries

Polar (Negative Attraction) .....	26
Polarization .....	12
Positive (Vibration) .....	16
Power .....	4
Propulsion.....	22
Radiation .....	25, 29, 36
Radioneter .....	31
Range .....	4, 14, 30
Resonant (Rings).....	41
Rotation .....	2, 17, 18, 39
Sound.....	20
Sympathetic (Association) .....	11
Sympathetic (Attraction) .....	12
Sympathetic (Concordance).....	16
Sympathetic (Conservation).....	9
Sympathetic (Electro Magnetic).....	33
Sympathetic (Neg. Attraction).....	1, 10
Sympathetic (Outreach).....	25
Sympathetic (Streams).....	10
Sympathetic (Vibratory Force).....	3
Sympathetic (Vibratory Link).....	16
Syren.....	14
Systems (Keely).....	2, 13
Transmission .....	3
Transmitter (Sympathetic).....	8
Triune (Stream).....	11
TERMS DEFINED .....	I - X
Velocity .....	3
Vibrations (Ethereic) .....	4
Vibrations (Inaudible) .....	23
Vibrations (Negative) .....	16
Vibrations (Positive).....	16
Vibratory (Engine).....	3, 6
Vibratory (Lift) .....	9, 28
Vibratory (Transmission) .....	14
Vibrophone.....	4
Watt (James).....	7
Writings (Keely) .....	5, 7, 12, 20

# Review of Keely and His Discoveries

## - I - TERMS DEFINED

- Acceleration (Negative) ..... 14  
This produces antagonism to the concordance and is seated in the center of the diatonic & enharmonic ring at the top of the disintegrator. Complete disintegration follows as a result.
- Assimilation ..... 1, 36  
Law of Assimilation  
Every individualized object tends to assimilate itself to itself, in successive moments of its existence and all objects to assimilate one another
- Attraction..... 22
- Chords, Antagonistic ..... 6  
Discordance in any mass is the result of differentiated groups induced by antagonistic chords. The motions of such, when intensified by sound, are very tortuous and zigzag; but when free of this differentiation are in straight lines.
- Etheric  
The setting up of the circle for computing the different lines of Etheric chords, in setting the vibratory conditions for continuity, requires close study.
- Chords Of Mass ..... 6, 7, 39  
Any differentiated mass can be brought to a condition of harmony, or equation, by proper chord media. This is the chord of molecule in the mass, but as the condition of absolutely stable equilibrium is theoretical only, and does not exist in nature, the chord of the mass is constantly changing.  
Yet to gain command of the molecular forces, we must learn to control this chord of mass by resonant induction. Keely believes he has solved this problem, by the invention of a mechanical device which brings the chords of all masses within the conditions of a few simple acoustic tests. The range of molecular oscillation is affected differently in different substances when submitted to the same vibratory impulse, and these ranges can be measured.
- Concordance ..... 14  
This is perfect harmony to the chord note.
- Sympathetic..... 16  
There are no two compound aggravated forms of visible matter that are, or ever can be so duplicated as to show pure sympathetic concordance one to the other. Hence the necessity of my system of graduation, and of a compound device that will enable anyone to correct the variations that exist in compound molecular structures so as to bring them to a successful operation.
- Concussion ..... 5  
Concentration occurs under vibratory concussion.
- Depolar ..... 35  
With a group of disks, Keely expects to establish a circuit of vibratory force for running machinery, both for aerial navigation and for terrestrial use.

## Review of Keely and His Discoveries

- Depolarization..... 12  
Polarization and depolarization are necessary for the control of rotation and reversion in his commercial engine.
- Diatonic ..... 14, 33  
In Music  
Designating a major or minor scale of eight tones which divides the octave into seven intervals in any of the several standard ways.  
In instruments  
This scale is located at the top of the instrument and must be through harmonized with the scale of ninths which is placed at the base of the vibratory transmitter. There are seven ranges of bars in all including the diatonic sixths.
- Differential ..... 11  
To establish the conditions necessary to equate a state of sympathetic disturbance for the revitalization of what is continually being displaced by negative dispersion, Keely uses differential vibratory settings on molecular aggregations of the metallic masses of gold, silver and platinum.
- Discordance..... 6  
Lack of harmony.
- Dominant..... 11, 33, 38  
The diversion of the dominant current would mean destruction of any mechanical medium used for that purpose, and death to the operator. The dominant thirds are part of the seven ranges of bars. The dominant current is part of the triune current. The law of the Dominant: Every such object is such by virtue of the higher or dominant force which controls assimilation of self and other objects.
- Enharmonic ..... 10, 11, 34, 38  
In music  
Having intervals less than 1/2 step, violated in the piano. In enharmonic scale C-sharp would not be the same as D-flat.  
Electricity  
It is one of the triune currents which are united in pure electricity.  
Molecular  
It is the controlling mode of vibration for molecular aggregations.
- Exciters..... 16  
In disintegration, the molecular gaseous substance, during its evolution, assumes a condition of high rotation in the sphere or tube in which it has been generated, and becomes itself the medium, with the proper exciters, for further progressive dissociation. The exciters include an illuminated revolving prism, condenser and coloured lenses, with a capped glass tube strong enough to carry a pressure of at least 1000 lb./sq.in.
- Focalization..... 9, 14, 37  
The focalization of this quadruple force, acting on one general center of concentration, produced partial molecular subdivision. In the disintegration of water, the instrument is set on thirds, sixths, and ninths which are focalized on the neutral center of said instrument so as to induce perfect harmony to the chord-note of the mass-chord of the instrument's full combination. Focalizing is called also Negative, negative attractive, polarizing and harmonic.
- Graduation..... 15

## Review of Keely and His Discoveries

It is necessary to submit the wire to a system of graduation in order to find what the combined chords of these nodal interferences represent when focalized to one general center.

Harmonic.....	10, 34, 38
In Music	
An overtone of the fundamental.	
Triune Current	
Is one of the components.	
Atomic	
Is the controlling mode of vibration for the atomic.	
Harmony.....	6
In Music	
The quality of being pleasing to the ear.	
Differentiated mass	
Any differentiated mass can be brought to a condition of harmony or equation, by proper chord media, and an equated sympathy produced.	
Inaudible.....	23, 40
In Music	
That cannot be heard by the ear.	
Vibrations	
Inaudible vibrations are tested by the magnetic needle and sound colors. Every gaseous molecule is a resonator of itself and sensitive to any and all sounds induced, whether accordant or discordant.	
Liberator.....	2
The acceleration of these orders is governed by the introductory impulse on a certain combination of Vibratory Chords, arranged for this instrument, with which Keely dissociates the elements of water; and which he calls a liberator. He has used a liberator containing 40 resonators.	
Negative Vibration .....	16
This is the same as negative accelerator.	
Neutral Center.....	4, 11, 20
The earth	
The volume of the neutral center of the earth is of no more magnitude than the one of a molecule. If we imagine the earth as having a crust 5000 miles thick and a void in the center except for a mass the size of a billiard ball, it would then require a force as great to move this small central mass as it would to move the shell of 5000 miles thickness. Moreover, this small central mass would carry the load of this crust forever, keeping it equi-distant; and there could be no opposing power however great that could bring them together. This is what we understand by a neutral center.	
Vibratory engine	
In the conception of my vibratory engine a circuit is formed that actually has a neutral center, which is in a condition to be vivified by my vibratory ether, and while under operation by said substance, is really a machine that is virtually independent of the mass (or globe), and it is the wonderful velocity of the vibratory circuit which makes it so. Still, with all its perfection, it requires to be fed with the vibratory ether to make it an independent motor.	
Outreach .....	25, 26

## Review of Keely and His Discoveries

### Sympathetic

This is not induction. It is the seeking for concordance to establish an equation on the sympathetic disturbance of equilibrium

### Positive Sympathetic

Polar negative attraction shows positive sympathetic outreach of a high order; which is a condition entirely foreign to magnetism.

### Polar Negative Attraction.....26

Magnetism is not polar negative attraction. Polar negative attraction induce rotation.

### Polarization ..... 12

A certain condition of polarization and depolarization is required for the control of rotation and reversions in his commercial engine.

### Positive Vibration ..... 16

The positive vibration are the radiating or propulsive.

### Propulsive.....22

The action of the magnetic flow is dual in its evolution, bot attractive and propulsive. 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 and left propulsive.

### Range.....4, 14, 30

### Atomic Motion

The range of the vapour from the liberator, registered at 20000 lbs/squ.in., is 1333 times the diameter of the atmospheric molecule, with constant rotary vibratory action.

### Vibratory rotation .....55

### Sympathetic

#### Association ..... 11

Keely is seeking to demonstrate the sympathetic association of the polar terrestrial stream with the celestial stream.

#### Attractive ..... 12

This is the force used by Mr. Keely in running his machines.

#### Concordance ..... 16

No two compund aggregated forms of visible matter show pure sympathetic concordance one to the other.

#### Conservation.....9

This is different from mechanical conservation of energy.

#### Electric Magnetic ..... 33

Keystone of electro magnetic sympathetic, transmissive combinations, 3rds, on the subdivision of first octave B flat, diatonic 6ths, on same subdivision of 3rds, octave harmonic, etc.

#### Negative Attractive ..... 1, 10

Ether liberated by vibratory machinery as the medium of a motive power.

#### Outreach.....25

See Outreach (sympathetic)

#### Stream ..... 10

Keely has discovered that all sympathetic streams are composed of triple flows.

### Sympathetic

### Vibratory force.....3

## Review of Keely and His Discoveries

Vibratory Link .....	16
To establish a sympathetic vibratory link, all nodal interference must be removed by inducing between the nodal waves a condition in which they become subservient to the link of such structure or wire.	
Systems.....	2, 13
Keely	
The (first system) requires introductory mediums of differential gravities, air and water, to induce disturbance of equilibrium on the liberation of vapour.	
The (second system) is complete as far as the liberation of the ether is concerned, but not sufficiently complete as yet in its devices for indicating and governing the vibratory etheric circuit.	
The (third system) embraces serial and submarine navigation. See also page 14	
Vibrations	
Inaudible.....	23
One of my perfected instruments shows to the eye the molecular effects produced by a certain order of vibration, when the chord of harmony is established between two neutral centers. Another, when connected with the sympathizer, denotes accurately number of vibrations that are necessary to induce certain effects of mechanical combinations.	
Negative .....	16
These are attracted towards the neutral center	
Positive .....	16
These are radiating or propulsive.	
Vibratory	
Lift .....	9, 28
This was conceived and constructed in 1878.	
All molecular of terrestrial matter are sympathetically drawn towards the earth's center, as according to the density of their molecular aggregation, minus their force or sympathetic outreach towards celestial association. Under certain orders of sympathetic vibration, polar and anti-polar, the attractive sympathetic of either stream can be intensified, so as to give the predominance to the celestial or to the terrestrial. If the predominance be given to the celestial, the earth's surface towards the etheric fields, with a velocity as according to the dominant concentration that is brought to bear on the negative thirds of its mass chords, by inducing high radiation from their neutral centers, in combination with the power of the celestial attractive.	
Transmitter .....	14
This produces the chord notes.	



## Review of Keely and His Discoveries

KEELY & HIS ASSOCIATES (MRS. BLOOMFIELD MOORE)  
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1893 (Aerial Navigation)

### Preface

Aim.....(XI)

Not intended to unfold the systematic methods that will come in his own world in due time.

Aim is to show the course of events in relation to his researches, open the mystery about misunderstood, how he first glimpsed THE POWER.

### Introduction

Keely affirms.....(XXI)

There is only one unique substance.

(XXII) Keely's chief ambition has been to utilize the Etheric Force he discovered.

(XXV) The laws of rythmical harmony, of assimilation, of sympathetic association, will be found governing all things.

Chapter I. Introductory - (1872-1882).....(1)

Discovery .....(2)

Made accidentally while pursuing a line of exps. in vibration. Six years required before he could repeat at will.

Keely Motor Co.....(2)

Perhaps 1000 stockholders, 20,000 shares, 400 in Treasury.

Experiment.....(6)

He evolved, almost instantaneously, a substance having an elastic energy varying from 10,000 to 20,000 lbs./sq.in. and instantly discharged or liberated it into the atoms, without the evolution of heat or of cold on its sudden libration.

Chapter II. Ether the true protoplasm-(1822-1886).....(11)

Etheric Vapour .....(13)

This is the new force. Liberated by a process of intense vibration.

Law of Assimilation.....(17)

Every individualized object tends to assimilate itself to itself, in successive moments of its existence and all objects to assimilate one another.

(18) There is 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.

Protoplasm .....(21)

This is now conceived of as the material of the whole creation in its first state when development is to begin, must on the contrary be altogether homogeneous and indivisible.

Sympathetic Negative attraction .....(29)

Ether liberated by vib. machine as the medium of a motive power.

Chapter III. The Nature of Keely's Problems-(1885-1887) ... (30)

## Review of Keely and His Discoveries

Rotation.....(34)

Used strongest resonator to experiment on vib. rotation with shell; then suddenly retracted to the negative bringing the velocity down from about 1500 per min. to 150.

Electricity.....(35)

This is but a certain condensed form of atomic vibration, a form showing only the introductory features which precede the etheric vibratory condition. It is a modulated force so conditioned, in its more modest flows, as to be susceptible of benefit to all organism.

(36) The Vibratory Etheric tree has many branches, and electricity is but one of these. Though it is a medium by which the operations of vital forces are performed, it cannot in my opinion be considered the soul of matter.

Liberator.....(36) (See second item below)

I was experimenting on the third order of intensification when the rotation on the circuit was thrown down in the compound resonating chamber, which, by instantaneous multiplication of the volume induced thereby, caused an explosion bursting the metal casing which enclosed the 40 resonators, so completely dismantling the Liberator.

Orders of separation.....(37)

When the ether flows from a tube, its negative molecular subdivision, carrying interstitially (or between its molecules) the lowest order of liberated ozone. This is the first order of ozone and is refreshing. The second order of atomic separation releases a much higher grade of ozone, produces insensibility. The third order or etheric is the one used by Keely in his carbon register to produce the circuit of high vibration that breaks up the molecular magnetism which is recognized as cohesion.

Frequencies.....(37)

The accelerator of these orders is governed by the introductory impulse on a certain combination of vib. chords, arranged for this instrument, with which Keely dissociates the elements of water; and which he calls the (liberator).

In (molecular dissociation) one fork of 620 is used, setting the chords on the first octave.

In (atomic separation), two forks; one of 620, one of 630 per second.

In the (etheric), three forks; one of 620, one of 630, and one of 12000, setting the chords on the third octave.

Keely's Three systems.....(37)

(First system) requires introductory means of differential gravities, air and water, to induce disturbance of equilibrium on the liberation of vapour, which only reached the inter-atomic position and was held there by the submersion of the molecular and atomic leads in the generator I then used.

(Second system) complete as far as the liberation of the ether is concerned, but not sufficiently complete as yet in its devices for indicating and governing the vib. etheric circuit, to make it a safe medium.

(Third system) embraces aerial and submarine navigation. The experimental sphere intended to test the combination of the positive and negative rotation is nearly completed.

Vibratory engine.....(38)

Operation conducted with a gum bulb instead of a violin bow, the pressure of which gives the introductory chord of impulse that vitalizes the whole machine. The chords will all be set in progressive sympathy from the first octave to the fortieth.

Etheric chords.....(39)

The setting up of the circles for computing the different lines of (etheric chords), in setting the vibratory conditions for continuity, requires close study.

I find my chief trouble in chording up the masses of the different parts composing the (negative centers). The negative center is included in the one-third volume of shell or sphere, starting from the (neutral axis) or (point of suspension).

This point of suspension only becomes perfect when the rotation is established on the sphere.

Gravity.....(39)

100 RPM is all the velocity required to neutralize the gravity of the central third with the veloc-

## Review of Keely and His Discoveries

ity of vibration circuit at 100,000 per second.

- Chapter IV. Sympathetic Vibratory Force-(1887).....(41)
- Articles.....(41)
- In 1887 a series of articles appeared in The British Mercantile Gazette, then edited by Mr. Arthur Goddard.
- Magnet .....(49)
- Prof. Keil, of Jena, demonstrated the susceptibility of the nervous system to the magnetic influence, and the efficiency of the magnet in the cure of certain infirmities.
- Velocity.....(51)
- The velocity of permeation is so great that the distance represented by light travel for a thousand centuries would be traversed by the etheric flow in an indefinite fragment of a second.
- Transmission.....(51)
- The true condition for transmitting it sympathetically thru a differential wire of platinum and silver have now been attained, after 8 years of intense study and elaborate exp. (52) (Differentiation), by compound negative vibration of their (neutral centers), causes antagonism, 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 thru the whole volume of air 230 ci. in. contained in sphere, within its  $33 \frac{1}{3}$  chord of its circle of coincidence. By this wire of platinum and silver the current of forces is now passed to run the vibratory disk, thus altogether upsetting the "compressed air" theory of Prof. Barker, Dr. Hall, and others of less note. In setting the conditions of (molecular sympathetic) transmission by wire, the same law calls for the harmonic adjustment of the thirds, to produce a nonintermittent flow of (sympathy). (Intermission) means failure here. The mediums of molecular density to destroy differentiation of sympathetic flow.
- Neutral Center .....(52)
- The volume of the (neutral center) of the earth is of no more magnitude than the one of a molecule; the (sympathetic) condition of one can be reached in the same time as the other by its (coincident chord).
- Etheric Current .....(52)
- Keely has attained the transmission of the etheric current in the same manner as the electric current, with this one notable difference-that, in order to show insulation to the sceptical, he passes the etheric current thru blocks of glass in running his vibratory devices.
- Chapter V. Etheric Vibration. The Key Force .....(54)
- Vibratory rotation.....(55)
- This reveals the identity of facts which seem dissimilar, binding together into a system the most unconnected and unlike results of experience.
- Etheric Vibration .....(59)
- In the Home Journal of Oct. 20, 1886 Keely gives an explanation of the mechanism of his generator, which he invented and constructed for the multiplication of vibrations, under the disturbance of equilibrium by mediums of different specific gravities-air as one, water as the other. He has since abandoned the generator for a vibratory machine which he calls a "liberator", in which no water is used to develop the force; the disturbance of the equilibrium being affected by a medium thoroughly vibratory in its character. The vapour which Keely produces from this liberator is perfectly free from all humidity, thus giving it a tenuity which he had never been able to reach before, and of a character most desirable for the perfect and high lines of action.
- Vibrophone .....(60)
- This is for collecting the waves of sound and making each wave distinct from the other in tone when the (wave-plate) is struck after the sound has died away.
- Power .....(61)
- To move suddenly a square inch of air, at the velocity of this vibration only of 2,750,000 per second, would require a force at least 25 times that of gunpowder. Taking the expansive force

## Review of Keely and His Discoveries

of gunpowder at 21,000 lbs. per squ. in., it would be 525,000 lbs. per squ. in. The explosion of nitroglycerine, which has two and one half times less vibrations per second, when placed on the surface of a solid rock, will tear up the rock before disturbing the equilibrium of the air above it. 20 grams moved 1 inch in one millionth of a second would require the actual force of 2 1/2 tons per second. Etheric vib. would move tons at the same velocity when submitted to the vibratory circuit. Thus the finer the substance the greater the power and the velocity under such vibration.

Range ..... (61)

The vapour from the liberator, registered at 20,000 lb./squ. in. has a range of atomic motion of 1333 1/3 the diameter of the atmospheric molecule, with constant rotary vib. action. At 1000 lbs. 666; at 5000-333, at 2500-166, at 1250-83, at 625-41. The higher the range of atomic motion the greater is its tenuity. And the range is according to the registered pressure. This rule does not apply to any other vapour or gas.

Triple vacuum evolutions ..... (62)

All operations of nature have for their sensitizing centers of introductory action, triple vacuum evolutions. These evolutions are centered in what I call atomic triple revolutions highly radiaphonic in their character, and thoroughly independent of all outside forces in their spheres of action. In fact, no conceivable power, however great, can break up their independent centers. So infinitely minute are they in their position that, within a circle that would enclose the smallest grain of sand, hundreds of billions of them perform, with infinite mathematical precision, their continuous vibratory revolution of inconceivable velocity. Mathematically considered, the respective and relative motion of these atomic triplets, gravitating to and revolving around each other, is about 1 and 1/3 of their conference.

Retreat of matter ..... (64)

When matter foes into ether in single material elements or units of weight, the molecules and masses from which such vaporization into the common vapour of matter is going on, may be expected to be phosphorescent. Keely has also shown how gravitation operates as a lever, etheric wave motion, concentration under (vibratory concussion) and (negative vacuous tenuity).

Chapter VI. The Fountain Head of Force..... (65)

Pressure of ether ..... (65)

Sir J. F. Herschel asserts that, supposing the ether to be analogous to other elastic media, an amount of it equal in quantity of matter to that which is contained in a cubic inch of air (which weighs about one-third of a grain), if enclosed in a cube of one inch on the side, would exert a bursting power of a upwards of 17 billions of pounds on each side of the cube, while common air exerts only 15 lbs.

Mathematic of Vib. etheric science..... (70)

Keely says it seems to him that no man's life is sufficient with the most intense application, to cover more than the introductory branch. The theory of elliptic functions, the calculus of probabilities, are but as pigmies in comparison to a science which requires the utmost tension of the human mind to grasp.

Chapter VII. The Key to the Problems, Keely's Secrets ..... (72)

Electricity..... (72)

Electricity is not merely force of a form of energy, but matter. It is precisely analogous to water in a water circuit.

Keely Writings ..... (75)

Keely says that he has written thousands of pages, which he hopes would be mastered by some mind capable of pursuing his researches to practical ends.-(1888)

Keely Secrets-(1888) Part 1..... (76)

(76) Confirmed vapor passed thru small flexible tubes to cylinder whose piston moves lever. More than 25000 lbs./sq.in. obtained.

(79) Charles R. Collier was Keely's patent lawyer.

## Review of Keely and His Discoveries

Beautiful charts in Keely's writings.

(82) The release of energy due to intense vib. action in Liberator. Has accomplished what the retort of the chemist has failed to do. The might Geni imprisoned with the molecule, is thus released from the chains and fetters which Nature forget.

(83) Keely believes the air molecule broken up by vibratory action contains what he calls an atomic triplet.

(85) To understand Keely engine you must discard all thought of engines that are operated upon the principle of pressure and exhaustion, by the expansion of steam or other analogous gas which impinges upon an abutment, such as the piston of a steam-engine. My engine has neither piston nor eccestries, nor is there one grain of pressure exerted in the engine, whatever may be the size or capacity of it. My system, in every part and detail, both in the development 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. All that remains to be done is to secure a uniform speed under different velocities and control reversions. Now use wire instead of tubular connections. A wire of platinum and silver is used and force is called (negative attraction).

Keely Secrets Part II ..... (91)

(92) Keely sys all disease is a disturbance of the equilibrium between positive and negative forces.

(Sound) (93). Everybody knows that a note struck upon an instrument will produce sound in a correspondingly attuned instrument in its vicinity. If connected with 1000 tuning forks it will make them all sound and produce a noise far greater than the original sound without the latter becoming any weaker for it. Here then is an augmentation or multiplication of power. If we have any means to transform sound again into mechanical motion, we would have a thousand-fold multiplication of mechanical motion.

(Not said by Keely)

(95) Discordance cannot exist in the molecule proper, and it is the highest and most perfect structural condition that exists; providing that all the progressive orders are the same. (Discordance in any mass) is the result of differentiated groups induced by (antagonistic chords), and the flight or motions of such, when intensified by sound, are very tortrous and zigzag; but when free of this differentiation are in straight lines. Tortrous lines denote discord, or pain; straight lines denote harmony, or pleasure. Any differentiated mass can be brought to a condition of (harmony), or equation, by proper chord media, and an equated sympathy produced.

(97) Keely's discoveries embrace the manner or way of obtaining the keynote, or "chord of mass" or mineral, vegetable, and animal substances; therefore, the construction of instruments, or machines, by which this law can be utilized in mechanics, in arts, and in restoration of equilibrium in disease, is only a question of the full understanding of the operation of this law.

Keely estimates that, after the introductory impulse is given on the harmonic thirds, molecular vibration is increased from 20000 per second to 100000000 on the diatonic ninths, that atomic vibration reaches 900000000; on the dominant etheric sixths, 8100000000; and on the inter-etheric ninths, 24300000000 all of which can be demonstrated by sound colours.

(98) Keely believes magnetism will be the curative agent of the future.

Chapter VIII. Helpers on the Road, and Hinderers. .... (100)

Gravity ..... (106)

Keely by means of a belt and certain appliances which he wore upon his person, moved single-handed, a 500 H.P. vibratory engine from one part of his shop to another. There was not a scratch on the floor, and astounded engineers declared that they could not have moved it without a derrick, the operation of which would have required the removal of the roof of the shop. Of course it is but a step in advance of this to construct a machine which, when polarized with a

## Review of Keely and His Discoveries

'negative attraction', will rise from the earth and move under the influence of an etheric current at the rate of 500 miles an hour, in any given direction. This is, in fact, Keely's airship.

Chapter IX. Keely supported by distinguished men of science.-(1889-90) (113)

Affidavits ..... (113)

Prof. Joseph Leidy M.D., of the Univ. of Penn. and James M. Willcox Ph.D., author of "Rational Philosophy" saw demonstrations of Keely's experiments and stated that he had discovered a new force.

Physics of the Ether..... (114)

S. Zolver Preston says a mass of one single grain moving at the velocity of light contains an energy not less than that possessed by a mass of 70,000 tons moving at 1200 ft/sec.

Theory ..... (115)

Keely demonstrated, with what he calls vibratory machinery, that all corpuscles of matter may be subdivided by a certain order of vibration, thus showing up new elements; and having demonstrated what he asserts, by releasing the various orders of ether from the suspension in which it is always held in our atmosphere, he has answered the sceptical demand "Give us some bread."

The Phila. Inquirer ..... (118)

The March 30, 1890 copy copied the article from Anglo-Austria on the Keely Motor.

James Watt..... (121)

In 1759 James Watt made his first model of a steam carriage.

In 1784 he took out a patent.

In 1803 the first engine was built.

In 1824 The experiment of running a locomotive from Liverpool to stockport was made.

Overcoming Gravity ..... (122)

Mr. Keely used a model of an air-ship weighing about eight pounds, which when the differentiated wire of silver and platinum was attached to it, communicating with the sympathetic transmitter, rose, descended, or remained stationary midway, the motion as gentle as that of thistle-town floating in the air.

Chord of Mass. .... (123)

A glass chamber 40 inches in height, filled with water, standing on a slab of glass contained three metal spheres, weighing about 6 ounces each and resting upon the glass floor of the chamber. The chord of mass of these spheres was B flat first octave; E flat second octave, and B flat third octave. Upon sounding the note B flat on the sympathetic transmitter, the sphere having that chord of mass rose slowly to the top of the chamber; the positive end of the wire having been attached which connected the covered har with the transmitter. The same result followed the sound of the note in sympathy with the chord of mass of the other spheres, all of which descended as gently as they rose, upon changing the positive to the negative.

Sisintegration of water ..... (123)

The air was exhausted from a small sphere and 12 drops of water were placed in it. The sphere was attached to the disintegrator a pressure of 20000 lbs./sq.in. was produced. Mr. Keely showed control of the ether, inter-atomic subdivision, by graduating the escape of the residue, as he allowed it to discharge itself with a noise like the rushing of steam to an expulsion as gentle as the breathing of an infant. The three subdivisions acted simultaneously, showing instantaneous association and disassociation. The sympathetic globe was operated upon 120 revolutions a second, ceasing the instant that the wire was detached.

Harmonies of Tones and Colours Developed by Evolution (124)

Mr. Keely is indebted to Macvicar's "Sketch of a Philosophy" for turning his attention in 1884 to researches on the structure of ether, and to Mrs. F. J. Hughes for suggestions in her work on Tones and Colours, which led him into the line of experiment that will enable him to show on a disc the various colours of sound, each note having its colours, and to demonstrate in various ways that the same laws which develop musical harmonies develop the universe.

Aerial Navigation ..... (126)

## Review of Keely and His Discoveries

The instrument devised by Mr. Keely for bringing the airship under control in its ascent and descent, consists of a row of bars, like the keys of a piano, representing the enharmonic and the diatonic conditions. These bars range from 0 to 100. At 50 Mr. Keely thinks the progress of the vessel ought to be about 500 miles an hour. At 100 gravity resumes its control. If pushed to that speed it would descend like a rifle-ball to the earth. There is no force known so far to use as the (polar flow) if, as Mr. Keely thinks, that, when the conditions are once set up, they remain forever, with perpetual molecular action as the result, until the machinery wears out. In the event of meeting a cyclone, the course of the vessel, he teaches, can be guided so as to ascend above the cyclone by simply dampening a certain proportion of these vibratory bars. The instrument for guiding the ship has nothing to do with the propelling of it, which is a distinct feature of itself, acting by molecular bombardment; moving the molecules in the same order as in the suspension process, but transversely. After the molecular mass of the vessel is sensitized, or made concordant with the celestial and terrestrial streams, the control of it in all particulars is easy and simple. In ascending the positive force is used, or the celestial and in descending the negative or terrestrial.

### Chapter X. The Keely Motor Bubble. Macvicar's Logical Analysis. (1881-91) (129)

First Discovery ..... (12)

Keely was experimenting in 1875 on what he called a hydropneumatic-pulsating-vacuo engine, when "accidentally", the first evolution of disintegration was made. The (focalization) of this quadruple force, acting on one general center of concentration, produced partial molecular subdivision, resulting in a pressure of some 3000 lbs./sq.in. Keely decided he had resolved the gaseous element of water by crude molecular dissociation. This was his first step towards the elimination of ether. Since then he has constructed innumerable machines to subdivide or dissociate the molecular; but it was not until he had instituted certain acoustic vibrator conditions that he began to realize the magnitude of the element that he is now controlling with his vibratory disintegrator. Yet, even this instrument was only the stepping-stone toward polar-sympathetic-negative-attraction.

Vibratory lift ..... (130)

This was conceived and constructed in 1878.

Compass rotation ..... (139)

The needle of a compass placed on a glass slab and connected with the transmitter by a wire turned at 120 R.P.M.

### Chapter XI. Viv. Sympathetic Polar Flows. .... (145)

Cost of Operation ..... (146)

It costs nothing more after the machinery is made than the vibratory concordant impulse which associates it with the polar stream. The twanging of a taut string, the agitation of a tuning-fork, as associated with the resonating condition of the sympathetic transmitter, is all that is necessary to induce the connective link, and to produce this (costless motive power).

Sympathetic conservation ..... (146)

This is different from mechanical conservation of energy.

Psychological researches ..... (147)

Keely has copied nature in all his instruments from the (Vibrophone), which is fashioned after the human ear, up to the (Disintegrator), in which the (neutral center) represents the human heart.

Energy of Magnet ..... (148)

This comes from the (polar stream), though the introductory impulse is so slight that it cannot be weighed. Keely teaches that it comes from sympathetic association with one of the (triune currents) of the (polar stream), and that its energy will increase as long as (sympathetic flows) last, which is through eternity. From the (sympathetic) portion of the (etheric field), all visible aggregations of matter emanate and on the same order that molecular masses of all living organisms are vitalized by the sympathetic flow from the brain.

## Review of Keely and His Discoveries

Buckle .....(149)

Our most learned men know not what magnetism is, nor electricity, nor gravity, nor cohesion, nor force. Keely shows us, by mechanical means, what magnetism is. By neutralizing or overcoming gravity, he proves to us that he understands its nature; electricity he declares to be a certain form of atomic vibration and, in the disintegration of quartz he demonstrates that cohesive force, like gravity, is an ever-existing force, holding together all molecular masses by the infinite velocity of its vibrations; which, were these vibrations to cease for one instant, would fall apart molecules and atoms, and return to the ether in which they originated.

Prof. Henri Hertz .....(149)

Behind the problems of electricity and magnetism arises the most important problem of all, that of the nature and properties of the substance which fills space, the ether, its structure, its motion, its limits if it possesses any. It seems as though a knowledge of ether should not only reveal to us the nature of that imponderable substance, but will unveil to us the essence of matter itself and of its inherent properties, weight and inertia. Soon the question set by modern physics will be, "Are not all things due to conditions of ether?" *La Revue Scientifique*, Oct. 26, 1888. (This appeared in *Lippincott's Magazine* July 1890).

Keely's Contribution to Science .....(151)

1. After a lifetime of research into the laws governing vibration which develop this force he is able to demonstrate partial control of the power. He calls it (sympathetic negative attraction).
2. He has determined and written out a system of the vibratory conditions governing the aggregation of all molecular masses, as to their relation sympathetically one to the other, stating the conditions to be brought about in order to induce antagonism or repellent action, disintegration, etc., but he has not yet been able to control the operation of his (Disintegrator) so as to use it with safety to the operator for mining purposes, etc.
2. He has proved by demonstration that the subdivision of matter under different orders of progressive vibration evolves by such subdivision entirely new and distinct elements, too multiple to enumerate. He has systematized the proper vibratory chords, progressively, from the introductory molecular to the inter-etheric, embracing 7 distinct orders of triple subdivision. He has elaborated a system of inducing sympathetic negative attraction on metallic masses, with great range of motion, and instant depolarization of the same, by vibratory change of their neutral centers. Keely controls the transmission of these sympathetic streams by a medium of high molecular density, viz., drawn wires of differentiated metals, gold, silver, platinum, German silver, etc.
4. Keely has discovered that all sympathetic streams, cerebellic gravital, magnetic, and electric, are composed of triple flows; this fact governing all the terrestrial and celestial orders of positive and negative radiation. In gravity it would be more correct to speak of triple connective links, as there is no flow of gravity.
5. Keely has discovered and was the first to demonstrate that electricity has never been handled; that it is in principle as material as is water; that it is not merely a force or a form of energy, that it is matter; and that what we call electricity, and have diverted for commercial use in electric lighting, is but one of the (triple current, harmonic, enharmonic and diatonic), which are united in our electricity; that the (enharmonic) current seems to be (sympathetically) and mysteriously associated with the (dominant current); and that **THE DOMINANT CURRENT CAN NO MORE BE BROUGHT UNDER CONTROL** than can the lightning itself. The diversion of the (dominant) current would mean destruction to any mechanical medium used for that purpose, and death to the operator. The intense heat evolved by the electric stream Keely attributes to the velocity of the triple subdivision at the point of dispersion, as each triple seeks its medium of affinity. Sudden union induces the same effect; but demonstration shows that the concentration of this triple force is as free of percussion as is the breath of an infant against the atmosphere; for the three currents flow together as in one stream, in the mildest sympathetic way, while their discharge after concentration is, in comparison to their accumulation, as the tornado's force to the waft of the butterfly's wing. The (enharmonic) current of this triple stream, Keely thinks, carries with it the power of propulsion that induces disturbance of nega-



## Review of Keely and His Discoveries

tive equilibrium; which disturbance is essential to the co-ordination of its flow, in completing the (triune stream) of electricity. When this fluid is discharged from the clouds, each triplet or third seeks its terrestrial concordant, there to remain until that supreme law which governs disturbance of equilibrium again induces sympathetic concordant concentration, continuing to pass thru its evolutions, positively and negatively, until the solar forces are expended. My researches have proved to me the subtle and pure conditions of the power of negative attraction and positive propulsion.

6. These same research have enable Keely to pronounce definitely as to the nature of what is recognized as gravity, as ever-existing, eternal force, coexistent with the compound etheric, or high luminous, entering into all forms of aggregated matter at their birth. Keely thinks that gravity is the source from which all visible matter springs, and that the (sympathetic) or (neutral) center of such aggregation becomes at birth a (connective concordant link) to all neutral centers that have preceded it and to all that may succeed it, and that disturbance of equilibrium, like gravity, is an ever-existing force.

7. Keely has constructed instruments by which he is endeavoring to determine the nature of the (triune) action of the (polar terrestrial stream), or envelope, as regards its vibratory philosophy. He is seeking to demonstrate its (sympathetic association) with the (celestial stream), or (luminiferous track), the (compound etheric field), from which all planetary masses spring. He considers the electric stream to be one of the (triune sympathetic streams) which help to build up, in their order of triple concentration, the high vitality of the (polar) stream, or more correctly, the magnetic-electric terrestrial envelope, without which all living organisms would cease to exist. He classes the cohesive force of molecular masses as the dominant order of the electric stream, the molecule owing its negative attractive quality to the magnetic element. In Keely's beautiful experiments in antagonizing the polar stream, recently given before men of science, he has copied in his instrument the conditions which Nature has established in all her terrestrial ringer, conditions necessary in order to equate a state of sympathetic disturbance for the revitalization of what is continually being displaced by negative dispersion. These mechanical conditions are principally (differential vibratory settings) on molecular aggregations of the metallic masses of gold, silver, and platinum.

8. He has discovered that the range of molecular motion in all quiescent masses is equal to one-third of their diameters, and that all extended range is induced by sound-force, set at chord of the thirds which are antagonistic to the combined chords of the mass of the neutral centers that they represent, no two masses being alike, and that a certain increased range of molecular action, induced by the proper acoustic force, the molecules become repellent, and that when the sympathetic centers are influenced by a vibration concordant to the one that exists in themselves, (the molecules become attractive; that the repellent condition seems to take place at a distance of about ten of the diameters of the molecules), this distance representing the neutral line of their attractive force, or the dividing line between the (attractive) and the (repellent). Beyond this line, perfect triple separation takes place, (inside of it, perfect attractive association is the result). The force which Mr. Keely uses in running machinery is the (sympathetic attractive). For aerial navigation he will use a negation of this force.

9. Keely has dislocated joints of his fingers and thumbs, he has broken his ribs, he has had his left side paralyzed for weeks, he has lost the sight in one eye for months, in his hand-to-hand fight with the genii that he has encountered, and cannot completely subdue until he has effected the condition of (polarization and depolarization which is necessary for the control of rotation and reversion) in his commercial engine. An illness of 9 weeks followed his abandonment of water in disintegrating; and he was obliged to return to its use, to avoid the percussion that was induced by the rapid vibration of the atmospheric sid.

10. He has written three treatises to explain his system, the titles of which are as follows:-

I. Theoretical Expose or Philosophical Analysis of Vibro-Molecular, Vibro-Atomic and Sympathetic Cibro-Etheric Forces, as applied to induce Mechanical Rotation by Negative Sympathetic Attraction.

II. Explanatory Analysis of Vibro-Acquatic Mechanism in all its Different Groupings or

## Review of Keely and His Discoveries

Combinations to induce Propulsion and Attraction (sympathetically) by the Power of Sound-Force; as also the Different Conditions of Intensity, both Positive and Negative, on the Progressive Octaves to Ozonic Liberation and Luminosity.

III. The Determining Principle of Matter, or the Connective Link between the Finite and the Infinite, progressively considered from the Crude Molecular to the Compound Inter-Etheric; showing the Control of Spirit over Matter in all the Variations of Mass-Chords and Molecular Groupings, both Physical and Mechanical.

Keely defines (gravity) as transmissive inter-etheric force under immense etheric vibration, and electricity as a certain form of atomic vibration Etheric flow would traverse in a fragment of a second the distance light travels in a thousand centuries

11. (Genius) has been defined as an extraordinary power of synthetic creation or as the man who unceasingly cultivates and perfects such great natural aptitudes and facilities as he has been endowed with at his birth. No man has ever lived on this earth who according to these qualifications, so deserved to be known and acknowledge as a man of genius as John Worrell Keely.

Chapter XII. Vibratory Physics-(1891).....(167)

Keely Systems .....(169)

The system of arranging introductory etheric impulses by compound chords set by differential harmonies, is one that the world of science has never recognized, simply because the struggles of physicists, combating with the solution of the conditions governing the fourth order of matter, have been in a direction thoroughly antagonistic, and opposite to a right one. It is true that luminosity has been induced by chemical antagonism and, in my mind, this ought to have been a stepping-stone towards a more perfect condition than was accepted by them; but independent of what might be necessary to its analysis, the bare truth remains that the conditions were isolated -robbed of their most vital essentials-by not having the medium of etheric vibration associated with them.

In order to subdivide the atoms in the atomic triplet, the molecular ether, liberated from the molecule, is absolutely necessary to effect the rupture of the atoms; and so on, progressively, in each order of ether, molecular, intermolecular, atomic, inter-atomic etheric, inter-etheric, the ether liberated in each successive division is essential to the next subdivision.

The keynote of Mr. Keely's researches is that the movements of electric are rhythmical, and before he had reached his present stage in producing vibrations, on the principle of resonance, he has had problems to solve which needed the full measure of inspiration or apperception that he has received.

Keely has produced, using an atmospheric medium alone, 519,655,633 vib. per second; but, interposing pure hydrogen gas between soap films and using it as a medium of acceleration, he asserts that on the enharmonic third a rate of vibration may be induced which could not be set down in figures, and could only be represented in sound colours. He has invented instruments which demonstrate in many variations the colours of sound, registering the number of necessary vibrations to produce each variation. The transmissive sympathetic chord of B flat, third octave, when passing into inaudibility, would induce billions of billions of vibrations represented by sound colours on a screen illuminated from a solar ray. But this experiment is one of infinite difficulty, from the almost utter impossibility of holding the hydrogen between the two films long enough to conduct the experiment. Keely made over 1200 trials before succeeding once in inducing the intense blue field necessary, covering a space of 6 weeks 4 hours at a time daily, and should he ever succeed in his present efforts to produce a film that will stand, he anticipates being able to register the range of motion in all metallic mediums. The highest range of vibration I ever induced was in the one experiment that I made in liberating ozone by molecular percussion, which induced luminosity, and registered a percussive molecular force of 110,000 lbs. per sq. in. with a frequency of over 700000000/sec. The volume of sphere, 15 cu. in. weight of surrounding metal 316 lbs.

Disintegration of water .....(170)

With less energy than is required to wind a watch, 12 drops of water can be disintegrated giving

## Review of Keely and His Discoveries

a force that will fill a chamber of 7 pint volume no less than 6 times with a pressure ten tons to the sq. in.

Latent energy accumulated in molecular aggregation .....(171)

All molecular masses of metal represent in their interstitial molecular space incalculable amounts of latent force, which if awakened and brought into intense vibratory action by the medium of sympathetic liberation, would result in thousands of billions more power in foot-pounds than that necessary to awaken it. If the latent force that exists in a pound of water would be sympathetically evolved or liberated up to the seventh subdivision or compound inter-etheric, and could be stored free of rotation, in would be, in my estimation, sufficient to run the power of the world for a century.

Theory and Formula of Aqueous Disintegration.....(173)

The peculiar conditions as associated with the gaseous elements of which water is composed, as regards the (differential volume) and (gravity) of its gases, make it a ready and fit subject of vibratory research. In submitting water to the influence of vibratory transmission, even on simple thirds, the high action induced on the hydrogen as contrasted with the one on the oxygen (under the same vibratory stream), causes the antagonism between these elements that induces dissociation. The (differential antagonistic range) of motion, so favouring the antagonistic thirds as to become thoroughly repellent. The gaseous element thus induced and registered, shows thousands of times much greater force as regards tenuity and volume than that induced by chemical disintegration of heat, on the same medium. In all molecular (dissociation) or (disintegration) of both simple or compound elements, whether gaseous or solid, a stream of vibratory antagonistic thirds, sixths, or ninths, or their chord mass will compel progressive subdivisions. In the disintegration of water the instrument is set on thirds, sixths and ninths, to get the best effects.

These triple conditions are focalized on the neutral center of said instrument so as to induce perfect harmony or (concordance) to the chord-note of the (mass-chord) of the instrument's full combination; after which the (diatonic) and the (enharmonic) is thoroughly harmonized with the scale of ninths which is placed at the base of the (vibratory transmitter) with the telephone head. The next step is to disturb the harmony on the concentric thirds, between the transmitter and disintegrator. This is done by rotating the (siren) so as to induce a sympathetic communication along the nodal transmitter, or wire, that associates the two instruments. When the note of the siren becomes concordant to the neutral center of the (disintegrator) the highest order of sympathetic communication is established. It is now necessary to operate the transferable (vibratory negatizer), or (negative) accelerator, which is seated in the center of the diatonic and enharmonic ring, at the top of disintegrator, and complete disintegration will follow from the antagonism induced on the (concordants) by said adjunct, in triple progression, this First, thirds. Molecular dissociation resolving the water into a gaseous compound of hydrogen and oxygen. Second, sixths: resolving the hydrogen and oxygen into a new element by second order of dissociation, producing what I call, low atomic ether. Third, ninths: The low atomic ether resolved into a new element, which I denominate high or second atomic harmonic. All these transmission being simultaneous on the disturbance of sympathetic equilibrium by said negative accelerator.

Example .....(174)

Taking the chord mass of the disintegrator B flat, or any chord mass that may be represented by the combined association of all the mechanical parts of its structure (no two structures being alike in their chord masses), taking B flat, the resonators of said structure are set at B flat first octave, B flat third octave and B flat ninth octave, by drawing out the caps of resonators until the harmony of thirds, sixths and ninths are reached; which a simple movement of the fingers on the diatonic scale, at the head, will determine by the tremulous action which is highly sensible to the touch, on said caps. The caps are then rigidly fixed in their different positions by set screws. The focalization to the neutral center is then established by dampening the steel rods, on the scale at the back, representing the thirds, sixths and ninths, drawing a piece of small gum tube over them, which establishes harmony to the chord mass of the instrument. Concor-

## Review of Keely and His Discoveries

dance is thus effected between the disintegrator and the ninths of the scale at base of transmitter with telephonic head.

The scale has a permanent sympathetic one, set on the ninth of any mass chord that may be represented, on any and all the multiple variations of mechanical combinations. In fact, permanently set for universal accommodation.

The next step is to establish pure harmony between the transmitter and the disintegrator, which is done by spinning the syren disk, then waiting until the sympathetic note is reached, as the syren chord, decreasing in velocity, descends the scale. At this juncture, the negative accelerator must be immediately and rapidly rotated, inducing high disturbance of equilibrium between the transmitter and the disintegrator by triple negative evolution, with the result that a force of from 5 to 10, 15, 20 and 30 thousand pounds to the sq. in. is evolved by the focalization of this triple negative stream on the disintegrating cell, or chamber, whether there be one, two, three, five or ten drops of water enclosed with it.

Graduation of Machines.....(175)

Mr. Keely gives a few introductory words concerning the necessary graduating of his instruments, for effecting conditions necessary to ensure perfect sympathetic transmission. The differentiation in molecular metallic masses, or grouping is brought about in their manipulations in manufacturing then for commercial uses; in the forging of a piece of metal, in the drawing of a length of wire, and in the casting of a molten mass to say requisite form. The nearest approach to molecular uniformity in metallic masses is in the wire drawn for commercial uses, gold and platinum being the nearest to freedom from differentiation. But even these wires, when tested by a certain condition of the first order of intensified molecular vibration for a transferring medium between centers of neutrality, I find to be entirely inadequate for the transfer of concordant union, as between one and the other, on account of nodal interferences. We can appreciate the difficulty of converting such a medium to a uniform molecular link, by knowing that it can be accomplished only after the removing of all nodal interference, by inducing between the nodal wires a condition in which they become subservient to the inter-sympathetic vibratory molecular link of such a structure or wire.

Therefore, it is necessary to submit the wire to a system of graduation in order to find what the combined chords of these nodal interferences represent when focalized to one general center. Then the differentiation between these nodal waves and the inter-molecular link must be equated by what I call a process of vibratory induction, so as to induce pure concordance between one and the other. To elaborate on this system of graduation for effecting conditions necessary to ensure perfect and unadulterated transmission would make up a book that would take days to read and months to study.

The graduating of a perfectly constructed instrument, to a condition to transmit sympathetically is no standard whatever for any other one that may be built, nor ever will be, because no concordant conditions of compound molecular aggregation can ever exist in visible groupings.

Definition.....(177)

The (positive vibrations) are the radiating or propulsive.

(Negative vibrations) are the ones that are attracted towards the neutral center.

The action of the (magnetic flow) is dual in its evolutions, both attractive and propulsive.

The sound vibrations of themselves have no power whatever to induce dissociation, even in its lowest form.

Certain (differential, dual, triple and quadruple), chords give introductory impulses which excite an action on molecular motion and put them in that receptive state for sympathetic vibratory interchange which favours molecular disintegration; then, as I have shown, the diatonic enharmonic is brought into plays which further increases the molecular range of motion beyond 50% of their diameters, when molecular separation takes place, giving the tenuous substances that is necessary to induce progressive subdivision.

This (molecular gaseous substance), during its evolution, assumes a condition of high rotation in the sphere or tube in which it has been generated, and becomes itself the medium, with the proper exciters, for further progressive dissociation.

## Review of Keely and His Discoveries

The (exciters) include an illuminated revolving prism, condenser and coloured lenses, with a capped glass tube strong enough to carry a pressure of at least 1000 lbs./sq.in. To one of these caps a sectional wire of platinum and silver is attached; the other cap is attached to the tube, so screwed to the chamber as to allow it to lead to the neutral center of said chamber.

There are no two compound aggregated forms of visible matter that are, or ever can be, so duplicated as to show (pure sympathetic concordance) one to the other. Hence the necessary of my sistem of (graduation), and of a compound device that will enable anyone to correct the variations that exist in compound molecular structures; or in other words to graduate such, so as to bring them to a successful operation.

Disturbance of magnetic Needle ..... (179)

The static condition of the magnetic needle proves that the power of the dominant third, of the triple combination of the magnetic terrestrial envelope, is the controlling one of this sympathetic triplet, and the one towards which all the others co-ordinate.

The rapid rotation of the magnetic needle of a compass which Mr. Keely shows rests entirely on the alternating of the dominant alone, which is effected by a triple condition of vibration that is antagonistic to its harmonious flow as associated with its other attendants.

Human ear..... (179)

The 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 to produce the effect would give a vibration in multiplication reaching the ninth.

Perpetual motion ..... (180)

When the proper impulse is given to induce the rotation with pure alternating corpuscular action, the conditions of action become perpetual in their character, lasting long enough from that one impulse to wear out any machine denoting such action, and on the sympathetic stream eternally perpetual. The action of the neutral of focalizing centers represents molecular focalization and redistribution, not having any magnetism associated with them; but when the radiating arms of their centers are submitted to the triple compound vibratory force representing their mass thirds, they become magnetic and consequently cease their rotation. Their rotation is induced by submitting them to three different orders of vibration, simultaneously giving the majority to the harmonic third.

The revolving globe ..... (180)

All hollow spheres, of certain diameters, represent, as per diameters and their volume of molecular mass, pure, unadulterated, sympathetic resonation towards the enharmonic and diatonic thirds of any, and in fact all, concordant sounds. In tubes it is adversely different, requiring a definite number of them so graduated as to represent a confliction by thirds, sixths and ninths, as towards the harmonic scale. When the conditions are established, the acoustic result of this combination, when focalized, represents concordant harmony, as between the chord mass of the instrument to be operated and chord mass of the tubes of resonation. Therefore the shortest way towards establishing pure concordance, between any number of resonating mediums, is by the position that Nature herself assumes in her multitudinous arrangements of the varied forms and volumes of matter-the spherical. The great difficulty to overcome, in order to get a revolution of the said sphere, exists in equating the interior adjuncts of same. In other words, the differentiation induced must be so equated as to harmonize and make their conditions purely concordant to the molecular mass of the sphere.

Example ..... (181)

Suppose the chord of the sphere mass represents B flat, or any other chord, and the internal adjuncts by displacement of atmosphere volume differentiates the volume 1/20; this displacement in the shell's atmospheric volume would represent an antagonistic twentieth against the shell's mass concordance to equate which it would be necessary to so graduate the shell's internal adjuncts as to get the same chord; an octave or any number of octaves that comes nearest to the

## Review of Keely and His Discoveries

concordance of the shell's atmospheric volume. No intermediates between the octaves would ever reach sympathetic union. We will now take up the mechanical routine as associated with adjuncts of interference, and follow the system for chording the mechanical aggregation in its different parts, in order to induce the transmissive sympathy necessary to perfect evolution, and to produce revolution of the sphere or shell.

Example .....(181)

A spun shell of 12" internal diameter and 1/32" thick has a volume of 904.77 cu. in. On determination by research we find the shell to be on its resonating volume B flat, and the molecular volume of the metal that the sphere is composed of a natural. This or any other antagonistic chord, as between the chord mass of the shell and its atmospheric volume, would not interfere but would come under subservience. We now pass a steel shaft thru its center 1/2" in diameter, which represent its axial rest. This shaft subjects the atmospheric volume of the shell to a certain displacement or reduction, to correct which we first register the chord note of its mass, and find it to be antagonistic to the chord mass to the shell, a certain portion of an octave. This must be corrected. The molecular volume of the shaft must be reduced in volume, either by filling or turning, so as to represent the first B flat chord that is reached by such reduction.

When this is done the first line of interference is neutralized, and the condition of wymphathy is as pure between the parts as it was when the globe was minus its axis. There is now introduced on its axis a ring which has 7 tubes or graduating resonators, the ring being two-thirds the diameter of the globe, the resonators are 3" long and 3/4" diameter, each one to be set on the chord of B flat, which is done by sliding the small diaphragm in the tube to a point that will indicate B flat. This setting then control the metallic displacement of the metallic combination, as also of the arms necessary to hold the ring and resonators on shaft or axis. Thus the second equation is established both on resonance and displacement. We are now ready to introduce the diatonic scale ring or three octaves which is set at 2/3 of the scale antagonistic to the chord mass of the globe itself. This done by graduating every third pin of its scale to B flat, thirds, which represent antagonistic thirds to the shell's molecular mass. This antagonism must be thoroughly sensitive to the chord mass of one of the hemisphere of which the globe is composed. The axis of the scale ring must rotate loosely on the globe's shaft without revolving with the globe itself; which it is prevented from doing by being weighted on one side of the ring by a small hollow brass ball, holding about two ounces of lead. The remaining work on the device is finished by painting the interiors of the globe, one hemisphere black and one white, and attaching a rubber bulb such as is used to spray perfume, to the hollow end of the shaft. This bulb equates vibratory undulations thus preventing an equation of molecular bombardment on its dark side when sympathetically influenced. It is now in condition to denote the sympathetic concordance between physical organism, or the receptive transmittive concordance necessary to induce rotation.

Ohylosophy of Transmission & Rotation of Musical Sphere. (182)

The only two vibratory conditions that can be so associated as to excite high sympathetic affinity, as between two physical organisms, are:-Ethereic chord of B flat, 3rd octave and on etheric sympathetic chords transmission E flat on the scale 3rd, 6ths, and 9ths; octaves harmionic; having the 3rd dominant; the 6ths enharmonic, and the 9th diatonic.

The chord mass representing the musical sphere, being the sympathetic etheric chord of B flat third octave, indicated by the focalization of its interior mechanical combination, as against the neutral sevenths of its atmospheric volume, makes the shell highly sensitive to the reception of pure sympathetic concordance, whether it be physical, mechanical, or a combination of both.

Taking the chord mass of the different mechanical parts of the sphere and its adjuncts, as previously explained, when associated and focalized to represent pure concordance, as between its atmospheric volume and sphere mass, which means the pure unit of concordance, we have the highest position that can be established in relation to its sympathetic susceptiveness to negative antagonism. The beauty of the perfection of the laws govern the action of Nature's sympathetic flows is here demonstrated in all the purity of its workinfs, actually requiring antagonistic chords to move and accelerate. The dark side of the shell, which represents 50% its full area of

## Review of Keely and His Discoveries

pure concordance harmony, is receptive area for the influence of the negative transmissive chords of the thirds, sixths and ninths, to bombard upon; which bombardment disturbs the equilibrium of said sphere, and induces rotation. The rotation can be accelerated or retarded, according as the antagonistic chords of the accoustic forces are transmitted in greater or lesser volume. The action induced by the mouth organ, transmitted at a distance from the sphere without any connection of wire, demonstrates the purity of the principle of sympathetic transmission, as negatized by discordants; which, focalizing on the resonating sevenths of resonators, or tubes attached to ring, the sympathetic flow is by this means transmitted to the focalizing center, or center of neutrality, to be re-distributed at each revolution of sphere, keeping intact the sympathetic volume during sensitization, thus preventing the equation or stoppage of its rotation.

Again, the sphere resting on its journals in the ring, as graduated to the condition of its interior combinations, represents a pure sympathetic concordant under perfect equation ready to receive the sympathetic, or to relect the nonsympathetic. If a pure sympathetic chord is transmitted coincident to its full combination, the sphere will remain quiescent; but if a transmission of discordance is brought to bear upon it, its sympathetic conditions become repellent to this discordance.

Prof. Fitzgerald.....(185)

He says of Hertz' experiments, if we consider the possible radiating power of an atom, we find that it may be millions of millions of times as great as Prof. Wiedermann has found to be the radiating power of a sodium atom in a Bunsen burner; so if these is reason to think that any greater oscillation might disintegrate the atom, we are still a long way from it. Here we have an admission that the atom may be divisible; but the Prof.'s conjecture is made upon an incorrect hypothesis. The "possible theory of ether and matter" which Prof. Fitzgerald puts forward, in his lecture on Electro-Magnetic Radiation, is in harmony with Keely's theories.

Chapter XIII More Science-(1891) .....(188)

Heely's Secrets.....(191)

In No. 9 Vol. 1 of T.P.S., some of the elements of the possibilities resulting to the world from Keely's discoveries were sit down.

Neutral Venter .....(200)

Mr. Keely says we will imagine that, after an accumulation of a planet of any diameter-say 20,000 miles more or less, for the size has nothing to do with the problem-there should be a displacement of all the material, with the exception of a crust 5000 miles thick, leaving an intervening void between this crust and a center of the size of an ordinary billiard ball, it would then require a force as great to move this small central mass as it would to move the shell of 5000 miles thickness. Moreover, this small central mass would carry the load of this crust forever, keepint it equi-distant; and there could be no opposing power, however great, that could bring them togetner. The imagination staggers in contemplating the immense load which bears upon this point of center where weight ceases. This is what we understand by a neutral center.

In the conception of any machine heretofore constructed, the medium for inducing a neutral center has never been found. If it had, the difficulties of perpetual motion seekers would have ended, and this problem would have become an established and operating fact. It would only require an introductory impulse of a few pounds, on such a device, to cause it to run for centuries. In the conception of my vibratory engine, I did not seek to attain perpetual motion, but a circuit is formed that actually has a neutral center, which is in a condition to be vivified by my vibratory ether, and while under operation, by said substance, is really a machine that is virtually independent of the mass (or globe), and it is the wonderful velocity of the vibratory circuit which makes it so. Still, with all its perfection, it requires to be fed with the vibratory ether to make it an independent motor.

Sound .....(203)

I assume that sound, like odour, is a real substance of unknown and wonderful tenuity, emanating from a body where it has been induced by percussion, and throwing out absolute corpuscles

## Review of Keely and His Discoveries

of matter-inter-atomic particles-with a velocity of 1120 ft, per second, in vacuo 20,000. The substance which is thus disseminated is a part and parcel of the mass agitated, and if kept under this agitation continuously would, in the course of a certain cycle of time, become thoroughly absorbed by the atmosphere; or, more truly, would pass thry the atmosphere to an elevated point of tenuity corresponding to the condition of subdivision that governs its liberation from its parent body. The sounds from vibratory forks, set so as to produce etheric chords, while disseminating their compound tones permeate most thoroughly all substances that come under the range of their atomic bombardment. The chapping of a bell in vacuo liberates these atoms with the same velocity and volume as one in the open air; and were the agitation of the bell kept up continuously for a few millions of centuries, it would thoroughly return to its primitive element. if the chamber were hermetically sealed, and strong enough, the vacuous volume surrounding the bell would be brought to a pressure of many thousands of pounds to the sq. in., by the tenuous substance evolved. In my atomic equilibrium, rupturing actual atomic corpuscles; and the substance thus liberated must certainly be a certain order of etheric flow. All bodies are formed primitively from this high tenuous ether, animal, vegetable and mineral, and they only return to their high gaseous condition when brought under a state of differential equilibrium.

Odour .....(203)

We can only get some definite idea of its extreme and wondrous tenuity by taking into consideration that a large area of atmosphere can be impregnated for a long series of years from a single grain of musk; which, if weighed after that long interval, will be found to be not appreciably diminished. The great paradox attending the flow of odorous particles is that they can be held under confinement in a glass vessel. Here is a substance of much higher tenuity than the glass that holds it, and yet it cannot escape. It is as a sieve with its meshes large enough to pass marbles, and yet holding fine sand which cannot pass thru; in fact, a molecular vessel holding an atomic substance. This is a problem that would confound those who stop to regognize it. But infinitely tenuous as odour is, it holds a very crude relation to the substance of subdivision that governs a magnetic flow (a flow of sympathy, if you please to call it so). This subdivision comes next to sound, but is above sound. The action of the flow of a magnet coincides somewhat to the receiving and distributing portion of the human brain, giving off at all times a depreciating ratio of the amount received. It is a grand illustration of the control of mind of matter, which gradually depreciates the physical till dissolution takes place. The magnet on the same ratio gradually loses its power and becomes inert. If the relations that exist between mind and matter could be equated, and so held, we would live on in our physical state eternally, so there would be no physical depreciation. But this physical depreciation leads, at its terminus, to the source of a much higher development-viz., the liberation of the pure ether from the crude molecular; which in my estimation is to be much desired. Thus God moves in a simple way His wonders to perform.

Ether as a medium for energy.....(205)

For nearly 15 years, Keely constructed ingines of various models, before he discovered that it is impossible to use ether in any other way than as a medium for the energy that he is now experimenting with; and which he defines, in its present operation, as a condition of sympathetic vibration associated with the polar stream positively and negatively.

### Chapter XIV Vibratory Physics. The Connecting Link of MInd & Matter....(206)

Faraday.....(207)

In 1836 Faraday said, "Thus, either present elements are the true elements, or else there is the probability before us of obtaining some more high and general power of nature even than electricity, and which at the same time might reveal to us an entirely new grade of the elements of matter, now hidden from our view and almost from our suspicion."

Force of nature.....(209)

All the force of nature, writes Keely, proceed from the one governing force; the source of all life, of all energy. These sympathetic flows, or streams of forms, each consists of three currents, harmonic, enharmonic, and dominant; this classification governing all orders of positive



## Review of Keely and His Discoveries

and negative radiation. The sympathetic flow called "Animal Magnetism" is the transmissive link of sympathy in the fourth, or interatomic, subdivision of matter.

Light and Heat ..... (216)

Light and heat are not evolved until the force of the vibratory sympathetic stream, from the neutral center of the sun, comes into atomic percussive action against the molecular atmosphere or envelope of our planet. There are very many facts in vibratory physics which prove that the volume of heat, supposed by many to emanate from the sun, if concentrated upon a center of the volume represented by the sun, would give enough focal force, if projected upon the system of planets that is under its control, to vaporize them in one month's time. A ray of heat one billion times greater than the whole volume the sun represents could not pass through the dark vacuous boundaries which lie between us and the sun without being neutralized and absorbed.

Electricity ..... (217)

Electricity is the result of three differentiated sympathetic flows, combining the celestial and terrestrial flows by an order of assimilation negatively attractive in its character. It is one of Nature's efforts to restore attractive differentiation. Electricians are now admitting that, in electric currents the energy does not flow through, or along the wire itself; but is actually transmitted by the ether vibrations outside of the wire, just as in Keely's experiments, running his musical sphere with a fine "thread" of silk, the energy is not transmitted through the sewing-silk, which acts only as the medium that makes the transfer of energy in this way possible; though not itself transferring it.

Attraction, Propulsion ..... (220)

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 to the 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 one against 100 of the other, by sympathetic vibration.

Energy ..... (221)

Energy is a sympathetic condition inherent in all forms of aggregated matter, visible and invisible. It is ever present, in its latent condition, and is aroused by the sympathetic disturbers of its equilibrium. By this conservation it becomes transferable. The sympathetic correlation of will-force in the cerebral convoluntary centers transfers its energy to the physical organism. Bring a steel rod in contact with a magnet, and the latent energy in the rod is brought into action without its becoming impregnated by its magnetic eye's exciter. Energy is an infinite latent force. If it did not exist it could not be generated.

Inaudible Vibrations ..... (222)

It is impossible to make two coins from one die the same in their molecular aggregation. The mere picking up of a coin and replacing it causes billions of molecules to be lost. This produces a change in the chord of mass of the coin. As this fact has only been developed by persistent progressive research, it is quite easy to comprehend the nature of the difficulties that lie in the way of perfecting devices for the guidance of artificers and mechanics, whereby they can bring a proper vibratory action into play to induce positive sympathetic transmission. In order to transmit my knowledge by demonstration it will be necessary to have much more perfect instru-

## Review of Keely and His Discoveries

ments than those crude devices which I first constructed for my researches. One of my perfected instruments shows to the eye in the molecular effects produced by a certain order of vibration, when the chord of harmony is established between two neutral centers. Another, when connected with the sympathizer, denotes accurately, by the colour of a certain sound or combination of sounds the number of vibrations that are necessary to induce certain effects of mechanical combinations.

Inaudible vibrations are tested by the magnetic needle and sound colours. Every gaseous molecule is a resonator of itself and is sensitive to any and all sounds induced, whether accordant or discordant. At the normal density of the atmosphere we hear a volume of sound, focalized by the combined association of every molecule brought under the sound influence. When we reduce the atmospheric volume of a chamber to  $1/2$ , then the ear is sensitive to the reduction of the acoustic force evolved on the same ratio, and so on, until sound becomes inaudible. This inaudibility to our organ of hearing is no proof whatever of any reduction of the acoustic force evolved on the introductory impulse given to the bell. It is only a proof that the number of the molecules left for the acoustic force to act upon has been so reduced by increasing the vacuum, that the concentration of sound from the diminished number cannot be heard. The ear is not susceptible to the acoustic force emanating from one molecule, nor ever from the concentration of one hundred millions of billions of molecules. The highest vacuum that can be induced, taking but a cubic inch in volume to act upon, will leave a residual number of molecules one hundred billion times as great as the above given number, and yet be perfectly inaudible when all their acoustic forces are focalized.

The audible has been conquered in my instruments to that extent which brings me into sympathetic contact with the inaudible, the vitalized conditions of which as regards sympathetic union with the terrestrial are the pure and only essentials necessary towards establishing the sensitive link, between the instrument and terrestrial chord-masses, in order to run sympathetic machinery. But there is still before me a vast region to be explored before the keystone of this sympathetic arch is set in position to carry the high order of sympathetic transfer that I aim at. I have every reason to hope that when I have mastered these mechanical difficulties I shall be able to control this most subtle of Nature's forces. When this is done, the commercial engine will soon follow.

Insanity.....(223)

There is good reason for believing that insanity is simply a condition of differentiation in the mass-chords of the convolutions, which creates an antagonistic molecular bombardment towards the neutral or attractive centers of such convolutions. This may be compared to a knot on a violin string. As long as this knot remains, it is impossible to elicit, from its sympathetic surroundings, the condition which transfers pure concordance to its resonating body. Sympathetic Vibratory Physics will, in due time, make known the curableness of many disorders now considered incurable.

Chapter XV. The Philosophy of History.....(219)

Chapter XVI. An appeal for Keely's Researches.....(239)

Revolving Needles.....(260)

At Dr. Brinton's suggestion, Mr. Keely took up a line of research that was new to him, and succeeded in making a needle of the three metals, gold, silver and platinum, rotate by differential molecular action, induced by negative attractive outreach, which is as free of magnetic force as a cork.

Chapter XVII. More of Keely's Theories-(1891).....(265)

Gravity.....(272)

Gravity is an eternal existing condition in etheric space, from which all visible forms are condensed. Consequently it is inherent in all forms of matter, visible and invisible. It is an attractive, sympathetic stream, flowing toward the neutral center of the earth, emanating from molecular centers of neutrality; concordant with the earth's center of neutrality, and seeking its

## Review of Keely and His Discoveries

medium of affinity with a power corresponding to the character of the molecular mass.

Cohesion ..... (272)

Cohesion is sympathetic negative attraction. It is the negative vibratory assimilation, or aggregation of the molecules, acting according to the density of compactness of the molecular groupings on their structures. The differing character of molecular densities, or molecular range of motion, represents differing powers of attraction. The lower the range of motions on the molecular vibrations of these structures, the greater is the attractive force that holds them together.

Heat ..... (272)

Heat may be classed as a vibro atomic element, not exceeding 14,000 vibrations per second at its greatest intensity, latent in all conditions of matter both visible and invisible. The velocity of the sympathetic flows which emanate from our solar world, the sun coming into contact with our atmospheric medium, liberates this element in all different degrees of intensity that give warmth to our earth.

Light ..... (273)

Light is another resultant; the different intensities of which are produced according to the different angles of this sympathetic projectment.

Radiation ..... (273)

This is the term used to express the reaching out of the thermal element, after its liberation from its corpuscular imprisonment, to be re-absorbed or returned again in sympathetic environment; teaching us a lesson in the equation of disturbance of sympathetic equilibrium.

Force ..... (272)

The Atom ..... (277)

Sympathetic Outreach ..... (278)

This is the seeking for concordance to establish an equation on the sympathetic disturbance of equilibrium.

When a magnet is brought into contact with a keeper, there is no induction of magnetism from the magnet into the keeper. The static force of the magnet remains unchanged, and the action between the two may be compared to a sympathetic outreach of the moon towards the earth, has a power strong enough to extend nearly a quarter of a million of miles to lift the oceans out of their beds. This is not the power induction. The sympathetic envelope of our earth owes its volume and its activity entirely to celestial radiating forces. Reception and dispersion are kept up by atomic and inter-atomic conflict as between the dominant and enharmonic. Silver represents the 3rd, gold the 6th, and platina the 9th, in their links of association, one to the other, in the molecular range of their motions, when submitted to vibratory impulses. If an introductory impulse, representing the sympathetic chord of transmission, *sya B flat*, or any other chord, be given to a sectional transmitting wire, the molecular triple, that is carried sympathetically along the path of such transmitter by the differentiation induced, excites high sympathy with the polar terrestrial stream. The polar terrestrial, being triune in its character, requires a triune sympathizer to meet its differential requirements, silver the harmonic, gold the enharmonic, and platina the dominant. When this triple metallic condition is properly sensitized, by any chord on the dominant, combined molecular, differentiated action is induced; showing a condition approaching magnetism in its development of related sympathy, without having the conditions that are truly magnetic, as this term (magnetic) is understood by all physicists. Magnetism is not (polar negative attraction), any more than polar negative attraction is magnetism; for polar negative attraction shows (positive sympathetic) outreach of a high order; which is a condition entirely foreign to magnetism.

Sympathetic negative attraction is not the resultant of electrical sympathization, but it includes the full triune flow; the dominant being the leader and associate of the celestial. The sympathetic outreach of negative attraction is the power that holds the planetary masses in their orbital ranges of oscillatory action. Magnetism has no outreach, but it pervades all terrestrial masses - all planetary masses. It is highly electrical in its character, in fact, magnetism is born of electricity; whereas negative attraction is not, but it has a sympathetic outreach for magnetism. Magnetism is static. Sympathetic negative attraction reaches from planet to planet; but

## Review of Keely and His Discoveries

electricity does not, nor does magnetism. Sympathetic negative attraction is born of the celestial, and impregnates every mass that floats in space; seeking out all magnetic or electric conditions; and all these masses are subservient to celestial outreach. All the magnets in the world could not induce rotation, no matter how differentiated, but polar negative attraction induces rotation.

Hydrogen ..... (279)

Chapter XVIII. A pioneer in an Unknown Realm..... (285)

Chapter XIX. Latent Force in Interstitial Spaces..... (298)

Paradoxical conditions in water disintegration ..... (299)

Five drops of water in a steel bulb of two cubic inches volume of atmospheric air, give force generated by the triple order of vibration of ten tons/sq.in. Other conditions being the same as above in a tube of 200 cu. in. the same pressure is obtained. The solution of this problem seems to rest in the fact that the gaseous element thereby induced even in minute quantities, must possess the property of exciting atmospheric air to that extent as to force it to give up, to quite an extended degree, the latent energy that is held in its corpuscular detths. This introductory medium seems to act on the air in the same manner that a spark of fire acts on a magazine of gunpowder.

Latent Force ..... (300)

If latent force is not accumulated and held in corpuscular aggregations, how is it that progressive orders of disintegration of water induce progressive conditions of increased volume and of higher power? The question arises, how is this symathetic power held in the interstitial corpuscular condition? By the incalculable velocity of the molecular and atomic etheric capsules, which velocity represents billions of revolutions per second in their rotations. We shall imagine a sphere of 12" diameter, representing a magnified molecule surrounding by an atmospheric envelope of 1/16" in depth; the envelope rotating at a velocity of 600000 miles per sec. Is it possible to compute what the velocity would be, on the same ratio, up to the earth's diameter? An atmospheric film, rotating on a 12" sphere at the same ratio as the molecular one, would be impenetrable to a steel-pointed projectile at its greatest velocity; and would hermetically enclose a resisting pressure of many thousands of pounds per squ. in.

If a bar of steel or iron is brought into contact with a magnet, the latent force that the steel or iron is impregnated with is aroused, and shows its interstitial latent action by still holding another bar. But this experiment does not give the most remote idea of the immensity of the force that would show itself on more progressive excitors. Enough alternate active energy could be evolved, by the proper sympathetic exciter, in one cubic inch of steel to do the work of a horse, by its sympathetic association with the polar force in alternate polarization and depolarization. This is the power that I am now getting under control (using the proper excitors as associated with the mechanical media) to do commercial work. In other words, I am making a sympathetic harness for the polar terrestrial force; first, by exciting the sympathetic concordant force that exists in the corpuscular interstitial domain, which is concordant to it; and secondly, after the concordance is established, by negatizing the thirds, sixths, and ninths of this concordance, thereby inducing high velocities with great power by intermittent negation, as associated with the dominant thirds.

Here let me ask, what does the term cohesion mean? What is the power that holds molecules together, but electromagnetic negative attraction? What is the state that is brought about by certain conditions of sympathetic vibration, causing molecules to repel each other, but electromagnetic radiation? It must not be understood that the character of the action of the latent force liberated from liquids and gases is the same, in its evolution, as that of the latent force existing in metals. The former shows up an elastic energy, which emanates from the breaking up of their rotating envelopes; increasing, as the same time, the range of their corpuscular action; thus giving, under confinement, elastic forces of an almost infinite character. By liberation from the tube it is confined in, it seeks its medium of concordant tenuity with a velocity greater than that of light. In metals, the latent force, as excited by the same sympathizer, extends its

## Review of Keely and His Discoveries

range of neutral sympathetic attraction without corpuscular rupture, and reaches out as it were to link itself with its harmonic sympathizer, as long as its exciter is kept in action. When its exciter is dissociated, its outreach nestles back again into the corpuscular embrace of the molecular mass that has been acted upon. (This is what Keely terms "sympathetic outreach".) This is the polar sympathetic harness, as between metallic mediums and the polar dominant current, the leader of the triune stream of the terrestrial flow. The velocity of the sympathetic bombarding streams, towards the centers of neutrality, in the corpuscular atoms, during sympathetic aggregation of visible molecular masses (in registering the latent force in the interstitial spaces), is thousands of times greater than that of the most sensitive explosives. An atmospheric stream of that velocity would atomize the plate of an ironclad, if brought to bear on it.

Theory of Vibratory Lift.....(303)

All molecular masses of terrestrial matter are composed of the ultimate ether. They are sympathetically drawn towards the earth's center, as according to the density of their molecular aggregation, minus their force or sympathetic outreach towards celestial association. In other words, the celestial flow as controlling terrestrial physical organisms. Under certain orders of sympathetic vibration, polar and anti-polar, the attractive sympathies of either stream can be intensified, so as to give the predominance to the celestial or to the terrestrial. If the predominance be given to the celestial, to a certain degree, on a mass of metal, it will ascend from the earth's surface, towards the etheric field, with a velocity as according to the dominant concentration that is brought to bear on the negative thirds of its mass chords, by inducing high radiation from the neutral centers, in combination with the power of the celestial attractive. The power of the terrestrial propulsive and celestial attractive to lift; and these conditions reversed, or the celestial propulsive and terrestrial attractive, to descend. Associating these conditions with the one of corpuscular bombardment, it is evident to me with what perfection an air-ship of any number of tons weight can, when my system is completed, be controlled in all the varied movements necessary for use at any desired elevation and speed.

Electro-Magnetic Radiation.....(304)

It is difficult to determine the time wherein sympathetic actions in nature are propagated. I find that there is but one condition approaching reliability; and that is in computing the intermittent periodic disturbances along 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 normal standard, and give us some definite figures in the computing of vibrations, thousands of billions of times more than those of light.

Light is induced by electro-magnetic 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 of the corpuscular oscillations, induced on the introductory ninth, 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 oscil. per second, one-third of their diameters. We have before us one of these masses, either a silver dollar, or any other metallic medium, which I associate to one of my nodal trans-

## Review of Keely and His Discoveries

mitters, 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 9 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 7th, 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 9 times 9 or 81 times 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 9, in order to induce a rotary action on the neutral center indicator of focalizing disk; which by computation, means, per second, 156,057,552, 198, 220, 000 corpuscular intermittent oscillation to move the disk 110 R.P.S. 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 of 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 R.P.S. 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 centers.

The interposition of (hydrogen as between soap-film), of the differential diameters of thirds, illuminated by a solar ray in whose focus aquiescent prism is set posteriorly-the prism to be adjusted at the proper distance and angle, to throw the seven colours thry the film enclosing the hydrogen in a way that will give the bow an arch of three feet will register deep down, inaudible tones or sounds, and indicate their different conditions by dissolving and re-dissolving of certain colours 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 porper conditions while under his manipulation. Thus the hidden inaudible world of sounds could be shown up, as the microscop shows up to the eye the hidden invisible forms of nature. The condition of the mechanical requiriments necessary to conduct successfully the line of research that I am now pursuing, will never be properly appreciated until the beauty of this system is shown up under perfect control for 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 reflected 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 electro-magnetic 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 force does not exist in the interstitial embrace of all matter.

Maxwell's theory .....(308)

## Review of Keely and His Discoveries

Maxwell's theory is correct that the plane of polarized light is the plane of the magnetic force. The sympathetic vib. associated with polarized light constitute the pure coincident of the plane of magnetism. Therefore, they both tend to the same path, for both are inter-atomic, 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 electro-magnetic 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.

Rope Experiment.....(308)

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, 12" in diameter, moving at the slow rate of 1 revolution in two minutes; its molecular structure vitalized with 42800 vib. 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 purpose of seeing it.

A computation of the conditions, already shown up in part proves conclusively that the power of an electro-magnetic wave at an outreach of 10" would be, if properly developed, equal to a lifting force of 36,000 lbs. on a disk but three inches in diameter. Ten of such on the periphery of a vibratory disk, 36" in diam., would represent 360,000 lbs. actual lift at R.P.M. Perfect depolarization at one hundred times per minute, or 1000 H.P. in the same time. An excess of 100 extra revolutions, under the same conditions, would mean 2000 H.P. per minute.

By this new system, to perfect which I am now devoting all my time and my energies, dynamos will become a thing of the past, eventually; and electric lighting will be conducted by a polar negative disk, independent of extraneous power to run it, other than that of sympathetic polar attraction, as simple in its construction, almost, as an ordinary type-writing machine.

Radioneter.....(309)

Light incident to any body that absorbs or reflects it does not press upon it. The radiometer of Prof. Crooke's invention is not operated by the pressure of light, but by corpuscular bombardment on the reflecting side of its vanes.

You have called my attention to the receding movement in the metal silver, which it assumes when the flow of an alternating current from an electromagnet, in front, is thrown upon it. This does not prove that light presses upon it to induce that movement. It moves by inter-atomic bombardment of some 800 millions of corpuscular percussions a second; or, more truly by inter-sympathetic vibrations. If a homogeneous disk of gold, silver and platina, in proper proportions, were made the medium of interference, the resultant action would be starting in showing up the movement of molecular antagonistic thirds. The movement would be very erratic and gyroscopic if the same disk were used or an intermediate transmitter to a negative focalizer, or in other words a polar radiator only one of which is in existence, by a nodal wire of gold, silver and platina. The effect on the disk at the negative terminus would be to set into action the latent force held in its molecular embrace, and would cause it to sympathetically adhere to the focalizer, with a power that would make it practically inseparable.

The progressive subdivision induced on molecules by different order of sympathetic vibration, and the resultant conditions evolved on the inter-molecule and inter-atom, by introductory etheric dispersion, prove that the magnetic flow of itself is a triple one, as is also the electric.

The transmission of sympathetic atomic vibration through a triple nodal transmitter, induces an inter-atomic 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 surrounding it and the same time extending the vibratory range of the atom far enough to set free the gaseous atomic element.

Molecular dissociation.....(310)

In order to get at the conditions which govern and give introductory impulses to that peculiar force which acts on the sympathetic medium that associates matter with matter, inducing magnetic antagonisms, it will be necessary to explain the triune conditions that govern sympathetic

## Review of Keely and His Discoveries

streams; as also the triune conditions of corpuscular association. All forces in nature are mind forces; magnetic, electric, galvanic, acoustic, solar, are all governed by the triune streams of celestial infinity; as also the molecular, inter-molecular, atomic, and inter-atomic. The remote depths of all their acoustic centers become subservient to the third, sixth, ninth position of the diatonic, harmonic and enharmonic chords; which, when resonantly induced, concentrate concordant harmony, by reducing their range of corpuscular motion, drawing them as if towards each other's neutral center or attractive infinity.

The sympathetic acoustic exciters, or impulses are: 1st, the third diatonic; 2nd, the harmonic sixths neutralizing affinity; 3rd, the enharmonic ninths-positive acceleration, which induces infinite trajectory velocity from neutral centers, in other words, neutral radiation. (Every molecule in nature represents, without variation, the same chord). Variations that show up in the mass chord of different visible aggregations, are accounted for by the non-uniformity of their molecular groupings. If all were molecularly homogeneous, the chord masses of all structures would be perfectly alike in their resonant impulses. 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 repellent 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 transmitter thru the proper media to induce molecular dissociation.

Method of Molecular Dissociation.....(312)

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 device which I use for the 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. The 6 assembling are in this order:

		Dominant	Electro	Diatonic	Har.	Neg.
		3rd	Mag.	6ths	Enhar.	7ths.
I.	II.	III.	III.	IIII.	IIIII.	IIIIII.

The second step is to liberate, according to symbolic meaning, second harmonic baron sixths, or neutralizing one, and third, enharmonic ninths, which is the one counting from negative sevenths. Now all is in readiness for the transmagnetic 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 negation 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 syren a rotary impulse of a velocity to indicate the concordant of the mass attached. If the introductory setting are all right, the neutral center indicator will rotate with high velocity; and a single tap on the chlanda waveplate 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, toward the mass chords it represents, either positive or negative. This system of evolution might be expressed as disintegration induced by the intensified oscillations of inter-atomic-electro-magnetic 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 inter-molecular 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



## Review of Keely and His Discoveries

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.

Keynote of (electric-magnetic sympathy), transmissive combinations, 3rds, on the subdivision of first octave B flat diatonic, 6ths, on same subdivision of 3rds, 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 platinum. In fact they are as accurate indicators of the earth's terrestrial sympathetic envelope, and its triple focalized action towards 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 it to re-associate with the full triune combination, thru the positive, thus:-

Dominant  
Harmonic  
Enharmonic

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

Magnet ..... (314)

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 toward the negative pole of the magnet, flowing unbrokenly back to associate sympathetically with the full triune combination of the earth's negative neutral force. 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 de-polarization, 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; not by the action induced in atomic vibration, the latent, or undisturbed power, that is locked up in its atomic embrace, is put into sympathetic action, and evolves the force that is recognized as pagnetic. 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.

Overcoming gravity ..... (315)

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 lib-

## Review of Keely and His Discoveries

erated 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 odour permeating the molecules, of the glass plate of the compass (with the same facility that atmospheric air would go thru an ordinary sieve thru 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 interferences.

Odour .....(316)

The order of vibration associated with the transmission of odour acts by sympathetic negative interference; and, consequently, moves in circles, with a velocity of 220,000 per second at least. If in any way the circle of its rotatory diameter could be reduced to that of its 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.

Gravity .....(317)

Gravity is nothing more than a concordant attractive sympathetic stream flowing towards the neutral center of the earth. This force is inherent in all vixible and invisible aggregated forms of matter, from the very birth of a planet, around whose center the molecules cluster by the sympathetic affinity which is thus induced. If these conditions had always maintained a neutral position in etheric space, no planet would ever have been evolved. These conditions have been fixed by the infinite. The rotating neutral centers set in celestial space have been endowed with the power of rotation to become their own accumulators. It is through the action of these sympathetic forces of the Infinite etheric realm that planets are born, and their volume of matter augmented.

If we pick up an object, we feel a resisting power in it which physicists call gravity; but they do not explain what gravity is. It is simply a sympathetic flow, proceeding from the molecular centers of neutrality; which flow is concordant with the earth's neutral center of same, seeding this medium of the affinity with a power corresponding to the character of its molecular mass. This is no actual weight in the molecules of the mass of which the earth is composed. If the sympathetic negative polar stream that flows towards the neutral center of the earth were cut off from it, the earth's molecular mass would float away into space as would a soap bubble filled with warm air. The gravital flow comes, in this system, under the order of the sympathetic concordant of the 9ths, and belongs to that third of the triune combination called polar propulsive. (Magnetism) is polar attraction. (Gravity) is polar propulsion. Both magnetism and gravity can be accelerated by the proper medium of sympathetic vibratory influences.

Chapter XX. Progressive Science.-(1892) .....(219)

Depolar Disks .....(324)

26 groups of disks are complete and the 27th is in process. Keely expects to establish a circuit of vibratory force, for running machinery; both for aerial navigation and for terrestrial use.

Dr. Brinton.....(326)

The abstract of Keely's philosophy. written by Dr. Brinton, has made Keely's theories intelligible for the first time. Each new discovery necessitates a new vocabulary; and Keely's writings are obscure because of his new nomenclature.

Chapter XXI. Faith by Science .....(332)

Principal Difficulty.....(334)

This rests in equating the thirds of the thirds of the transmitter (i.e. the gold, silver and platina sections of which the transmitting wires are composed) to free them of molecular differentiations. The full control of this force can never be accomplished, until pure molecular equations is

## Review of Keely and His Discoveries

established between the nodal interferences (that result in their manufacture) and the chord mass of their sectional parts. When this has been done, the chasm between the alternation of the polar forces, which now exists, preventing the inducing of polar and depolar conditions, will be bridged over and commercial benefits at once established as the result. The devices for inducing these conditions, primarily, are perfect; but the pure, connective link on transmission has to be equated before continued mechanical rotation and reversion can be attained.

CONCLUSION - Keely's Physical Philosophy .....(358)

Abstract by Prof. Daniel G. Brinton.....(358)

The fundamental conception of the Universe is force manifesting itself in rhythmical relations. This definition is exhaustive, including both thought and extension, matter and mind. The law for the one is the law for the other. The distinction between them is simply relative, i. e., quantitative, not qualitative. The rhythmic relations in which force acts are everywhere, under all conditions, and at all times, the same. They are found experimentally to be universally expressible by the mathematical relations of thirds. These threefold relations may be expressed with regard to their results as -

- I. Assimilative
- II. Individualizing
- III. Dominant or Resultant

From these three actions are derived the three fundamental

### LAWS OF BEING

- I. Law of Assimilation: every individualized object assimilates itself to all other objects.
- II. Law of Individualization: every such object tends to assimilate all other objects to itself.
- III. Law of the Dominant: every such object is such by virtue of the higher or dominant force which controls these two tendencies.

Applying these fundamental 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 vibrations:-

- I. The Radiating: called also the "Dispersing," the Propulsive, the "Positive," and the "Enharmonic."
- II. The Focalizing: called also the "Negative," the "Negative Attractive," the Polarizing," and the Harmonic."
- III. The Dominant: called also the "Etheric," or the "Celestial."

These it will be noted correspond to the three laws of being. It is not to be understood that any one of these three modes of vibration can exist independently. Each by itself is called a "current" and all three must be present in every "stream" or "flow" of force. The relation of the currents in every flow are expressible in thirds, and it is experimentally demonstrable that the relation of the three are in the order named: as 33 1/2: 66 2/3: 100.

The (evolution) of what is called "matter" from the different modes of vibration is through the action of the second law, that of focalization, or "negative attraction," or "negative affinity." Where the vibrations under this mode meet, and are maintained in a state of mutual affinity or equilibrium, there is established what is called a "neutral center," or, as otherwise expressed, "A center of sympathetic coincidence." The terms "neutral attraction," "neutral affinity," "negative attraction," or "polar negative attraction," are employed to express the property of a mode of vibration to direct its components towards such center.

As no current or flow of force can be composed of one mode of vibration only, but must always

## Review of Keely and His Discoveries

be composed of three modes uniting in varying thirds, we have  $1 \times 2 \times 3$  equals 6 as the total possible forms of sympathetic coincidence, or, to speak in ordinary terms, there can be 6, and 6 only, possible forms of individualized being. These are what Keely calls the six orders of atomic subdivision, or orders of vibratory motion, and he names these as follows:-

- I. Molecular
- II. Inter-mole
- III. Atomic
- IV. Inter-atomic
- V. Etheric
- VI. Inter-etheric

In this list the forms of matter are arranged in the mathematical sequence of the rapidity of the oscillations of their constituent members: the proportion being proved by experiment to be as follows: for the molecular orders:

1: 3: 9: 27: 81: 243

This arithmetical progression changes in the atomic orders to a geometrical progression as follows:

3: 9: 81: 6561: 43046721, etc.

This same method of progression is believed to hold in all the orders of vibrations above the molecular, and soon passes into mathematical infinity. Actually, however, all matters of which we are capable of cognition through the medium of our senses is in one of three forms of aggregation:

- I. Molecular
- II. Atomic
- III. Etheric

in each of which the controlling mode of vibration is respectively,

- I. The Enharmonic
- II. The Harmonic
- III. The Dopinant

But it must be understood that each of these modes is a positive and real constituent of every atom and molecule.

It will be seen that as every form of material aggregation is to be considered as a "neutral center of attraction," where the vibratory force of all three orders are held in "sympathetic coincidence," that is, in balanced activity or harmonized motion, and not by any means cancelled or mutually destroyed, there is no diminution of force, but only temporary suspension of its radiating or propulsive activity or expression. This is the foundation of Keely's doctrine of "latent force," and of the indefinite power which can be obtained by breaking up the harmonious balance or equation of forces of every mode, which exists in every "neutral center," that is to say in every mass of mater.

In so much as every mass of matter consists thus, in fact, of vibrations in harmonic equilibrium, related by simple proportions of thirds, it follows that every mass of every description stands in harmonic relation to every other mass. This is, in part, what is meant by the sympathy of all forms of matter and of motion; and it is through the study of the methods of increasing or diminishing this sympathy that we reach practical results in this field of research. At present this is

## Review of Keely and His Discoveries

best accomplished by resonance; that is, through the harmonic vibrations created by musical instruments, bringing out the acoustic world as the microscope reveals the hidden visual world. Every visible or tangible mass of matter must be regarded as an aggregation of molecules; the molecules being the true centers of the equated forces of "neutralized attraction." These molecules have been experimentally proved by Keely to be found of all three modes of vibration; the proof being that they respond to all three modes when subjected to the tests of compound concordant impulses.

When in that state of neutral aggregation which we know as matter, each molecule is in perpetual oscillation, the range of the oscillation being  $1/3$  of the molecule, and its rapidity 20,000 oscillations in a second. It is through the disturbance of this oscillatory equilibrium, by means of resonant impulses, that Keely alters the relations of the vibratory impulses which constitute matter. (This he does by striking the same chord in three octaves, representing the third, sixth, and ninth of the scale). Of these, the sixth reduces the range of molecular vibrations or oscillations; and, by thus bringing nearer to each other the neutral centers, increases solification. The ninth extends the range of molecular oscillation, and thus tends to give greater tenuity to the mass. It induces "trajectile velocity" from neutral centers, or "neutral radiation." Experiment shows that molecular dissociation does not take place until the molecule attains an oscillation approaching, if not fully reaching  $2/3$  of its diameter. This can be effected by means of the action of the "enharmonic" or "radiating" current applied to the mass, after its molecules have once been disturbed by an "introductory impulse;" that is, by the musical note above mentioned. The third represents the "dominant," and when brought under control of a harmonic resonant impulse induces a complete rearrangement of the modes of vibration and oscillation; in other words, will transform the mass either into its component initial forces, or into some other form of matter. It is the study of the dominant to which Keely has devoted his recent researches. He aims to control the power he evolves by altering the dominant or etheric mode of vibration in the triplicate flows of force. As all molecules and masses are mere centers of harmonized vibrations, temporarily held in suspension by simple laws identical with those of resonance, it follows that these centers can be broken up or divided by certain orders of vibration impinging upon and disturbing them. It is a familiar fact that a chord in vibration tends to produce a similar vibration in a cord placed near it. This property belongs to all vibrations whether resonant or not, and they exert it in proportion to the "order" to which they belong. The distance in space to which this power extends, or can be extended, is what is called "the sympathetic outreach" of the current or flow. In this manner we have "sympathetic positive propulsion," with reference to the "outreach" of the third or dominant current of the stream, which is allied to the order of etheric vibrations. Each molecule of a given mass of matter represents the same harmonic chord or note in its oscillatory motion. The "chord of the mass" is, therefore, the chord of every molecule of the mass. But as the condition of absolutely stable equilibrium is theoretical only, and does not exist in nature, the chord of the mass is constantly changing. Yet we must learn to control this "chord of the mass" by resonant induction, if we would command of the molecular forces. Keely believes he has solved this problem by the invention of a mechanical device which brings the chords of all masses within the conditions of a few simple acoustic tests. The range of molecular oscillation is affected differently in different substances when submitted to the same vibratory impulse, and these ranges can be measured. In the three metals, silver, gold, and platinum, we obtain the proportions - 3: 6: 9 - As this is the primary relation of the modes of vibration, a wire made of these three metals is peculiarly adapted to transmit concordant impulses; and nodes made of these substances placed upon a wire, transmitting resonant vibration, indicate, by the different orders of vibration induced in them the rate of oscillations of the atomic constituents.

The phenomenon of (rotation) arises from the harmonic interaction of the dominant and enharmonic elements of the flow: in other words, the first and third, the third and ninth, etc., those whose vibrations bear the proportions to each other  $33 \frac{1}{3} : 100$ . A practical example of rotation is a wheel in revolution on its axis. This is force in its commercial or economic aspect. To accomplish this result by molecular vibratory action, we must gain control of the "negative attrac-

## Review of Keely and His Discoveries

tive" or "enharmonic" current of the triple flow, and the problem is then solved up to any limit of power.

APPENDIX I.....(365)

Light.....(365)

Sympathetic physics teaches that light is an etheric evolution, propagated by sympathetic conflict between celestial and terrestrial outflows; solar tensions as against terrestrial condensation. True luminosity cannot be induced in any other way. The high order of triple vibration, that induces (progressively) molecular and inter-molecular separation, shows luminous results, which, when thus mechanically produced, are virtually on a small scale, a facsimile of nature's operations. "All such experiments that I have made," writes Keely, "resulted in vortex motion invariably, both sympathetically and otherwise. Vortex motion follows nature in all corpuscular action.

The undulatory theory, regarding light, I have not been able to reconcile myself to, as anything but hypothetical. The conditions which govern electro-magnetic radiation, disprove the theory in many particulars. The vortex action induced in space by the differential conflict between the low and high tensions, shows up results that harmonize with the conditions accompanying the dissociation of hydrogen and oxygen, in disintegration water, viz., vortex action of the highest order, but peripheral only. If it were not so, the ether could not be held in suspension, neither in the molecular nor atomic envelopes. Undulatory effects are produced by certain conditions of sound; and by other conditions quite opposite effects. In organ pipes, of a certain calibre, very sensitive waves occur at intervals; as according to the charcter of the sound evolved; but on a combination of resonators composed of brass tubes of more than nine in number, a wave of sound, induced by certain chords passing over them. The vibration of tuning forks induces alternate conditions of the air that surrounds them, if in open atmosphere; but quite a different action presents itself when the forks are exercised in resonating tubes, set to thirds of the mass chord they represent. Then high vortex action is the instant result. Vibrators cannot be set promiscuously in tubes, and get such results, any more than a musician can render a musical composition on the violin before tuning it. The conditions under which light is evolved negatize whatever is associated with undulation, as this word is understood by physicists. Aqueous undulations there are, but not etheric undulations.

Inaudible.....(367)

If I am the chosen instrument to develop this knowledge, and to make known the conditions which surround this pure truth, it is only that I may hand the key to those who will use it to enter the doorway that opens into the inaudible, and thus gain an insight into the now invisible region of the operation of Nature's most powerful governing forces, in the control over terrestrial mind by celestial matter.

APPENDIX II.....(368)

Summary.....(368)

The flow of (electricity), as set down in Keely's system, is governed by triple conditions; 1st., the dominant or high vibratory; 2nd., the sub-dominant or low vibratory; 3rd., the harmonic or undulatory; in combination one flow. Keely writes when electrical experts can construct a mechanical device whereby the low vibratory conditions of the sub-dominant can be assimilated to the harmonic undulatory, by thirds, they will be able to run their dynamos without any extraneous appliances. An introductory impulse, on a certain order of vibration, being all that would be required to give the sub-dominant a concordant relation to the dominant, which would more effectively operate the dynamo than any number of steam-engines; allowing the harmonic stream to be the governor. This concordance as toward the dominant would only excite its sympathetic action in a way that would divert the rulling conditions of the two, without being submitted to the destructive effects of the dominant current. I think many lives will be lost before such a position is attained. Tesla has reached out almost to the crest of the harmonic wave, leaving all electri-

## Review of Keely and His Discoveries

cal explorers far behind him

Polar forces include magnetism, electricity, and gravital sympathy; each stream composed of three currents, or triune streams, which make up the governing conditions of the controlling medium of the universe; the infinite ninth that I am now endeavoring to graduate to a sympathetic mechanical combination will, if I succeed, close my researches in sympathetic physics, and complete my system. These sympathetic streams from celestial space, percussing on the dense atmospheric environment of our earth, by their infinite velocities, wrest from their atomic confinement the latent energies which we call heat and light.

APPENDIX III.....(370)

Resonating rings .....(370)

These are made from straight tubes. The tubes, in sections long enough to form a semi-circle, are passed between triple rollers which are set to give them a slight bend. They are then fastened to a bed-plate, and a steel ball, the exact diameter of the interior of the tube, is passed into it and forced thru it. It is then passed between the rollers again, which are set so as to slightly increase the curvature, and again the interior of the tube is corrected by the steel ball. This process is intermittently continued until the semi-circle is reached. Each process of bending and correcting requires over two hours. Eight bends are sometimes necessary for the completion of the full circle. When the two semi-circles, which form the circle, are finished, they are placed in a steel mould and kept under hydraulic pressure for two or three days, to correct any lateral deflection which has taken place in bending them. They are then taken out of the moulds and screwed rigidly to a face plate, and joined together by a solder of refined brass and silver. Next they are placed in a hot sand bath of sufficient volume to require 72 hours to cool down. This corrects the differentiation in their molecular grouping. They are then submitted to a vibratory flow from the sympathetic negative transmitter, until their intonation, by percussion, represents a pure unmixed chord. The indicator, attached to the rings, denotes when this condition is attained. They are then centered on a steel shaft and rotated at the rate of 2000 R.P.M. surrounding by the triple circuit ring. If the indicator, on the circuit ring, should vary 5° on a subdivision of 8000, the process for correcting has to be repeated until the variations are reduced to three; which is near enough to be considered perfect, in as much as the circular resonator will then hold the neutral focalization intact during the graduation of the full ninth, or triple triplets, for sympathetic association to polar negative attraction.