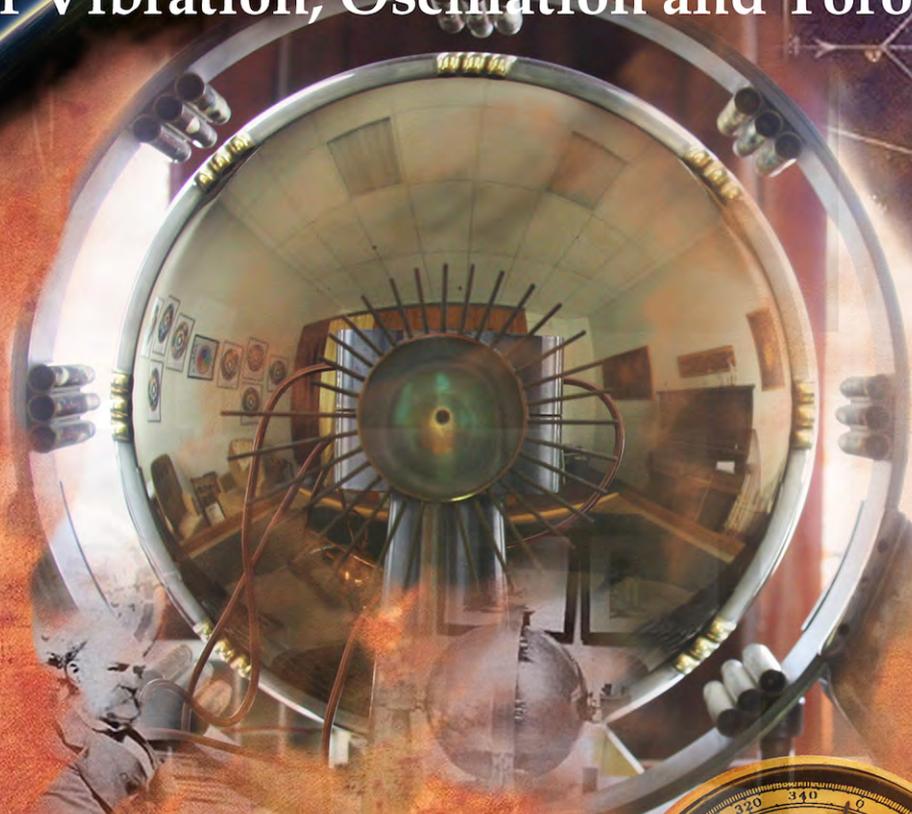


Keely's Laws of Being

- on the Nature and Dynamics
of Vibration, Oscillation and Toroids



Revision 2.1.5

Dale Pond

Keely's Laws of Being - on the Nature and Dynamics of Vibration, Oscillation and Toroids, version 2.1.5

by Dale Pond

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“If you only knew the magnificence of the 3, 6 and 9, then you would have a key to the universe.” Nikola Tesla

What did Tesla consider as “magnificent” about these three numbers? These three numbers represent unseen dynamics and are the very essence of the nature, structure and dynamics of complex periodic motions. This work describes these three unseen (scalar) aliquot components of vibration, oscillation, vortices and toroids (or any periodic motion) as also their relationships and dynamical functions.

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Dedication

This work is dedicated to those rare and courageous individuals who have boundless curiosity in their hearts and minds intensely pursuing a Greater Truth about themselves and the universe in which they live and have their being. They are critical thinking rebels recognizing the status quo does not satisfy their constant and persistent questioning of every thing or idea whether trivial or held as sacred dogma.

“Here’s to the crazy ones. The misfits. The rebels. The troublemakers. The round pegs in the square holes. The ones who see things differently. They’re not fond of rules. And they have no respect for the status quo. You can quote them, disagree with them, glorify or vilify them. About the only thing you can’t do is ignore them. Because they change things. They push the human race forward. And while some may see them as the crazy ones, we see genius. Because the people who are crazy enough to think they can change the world, are the ones who do.” Apple Computers

Forward

“There are times in life when all the stars seem to align for us. This work, for Dale Pond, is one of those moments! Dale has worked to recapture John Keely’s fragmented work for over three decades and collate this collection of fragmented footnotes back into John Keely’s coherent science called Sympathetic Vibratory Physics [SVP]. I have known Dale personally for twelve years and studied along side him the works of John Keely. It took me many years to understand in a coherent manner what John Keely was saying. A lot of this confusion was due to his works being so fragmented. Dale has completed and is still working on his SVPwiki.com, which integrates so many others’ works that support the threads of John Keely. Still one must be deeply committed to the study to pick up the basic corollary concepts to develop a clear image of this new science discipline. “Well, no longer! This new publication of Dale Pond’s is surely his greatest work and most fundamental. Here he has laid out basic building blocks of [Sympathetic Vibratory Physics](#) in a sequential coherent pattern that helps the reader circumvent years of study to reveal an understanding of this science.

“John Keely was a thousand years ahead of today’s quantum physicist understanding of the basic building blocks of the Universe. John Keely saw it as a three dimensional construct of radially vibrating energy systems from centers in proportional progressive values filling all the plenum of the Universe. He understood through repeatable experimentation the character of this primal energy construct and how to manipulate it’s present stable resonate fundamental states - known matter into new ones - yet undiscovered by modern man. Also, along the way he discovered many wonderful, what would seem magical, characteristics of these new states of matter and force.

“The possible progression from here as I see it, for Dale Pond, is forward into applied application of this now defined science for humanity’s new age.”

Jerry Williams

Preface

0.1 What this book is

This book is a culmination of a two year epiphany. In early 2011 I began sensing there is more to the concept and state of *polarity* than previously thought by anyone save Keely. In July of that year I attempted to speak of this new insight at the Extraordinary Science Conference in Albuquerque. That attempt failed.

Then in October of 2013 the idea gelled - I got it! This book then is an expression of that two year epiphany and over a year of writing.

This work attempts to explain the unrecognized nature, construction and dynamics of vibration, oscillation and toroids with their polar dynamics as also to clarify Professor Daniel Brinton's¹ description of Keely's ideas within his article "Laws of Being"² revealing Keely's technique for understanding and manipulating the periodic nature of matter and energy³. This Brinton article (Chapter 7 - Laws of Being) is central to this document.

Two prior versions of this book have been issued. This version (2.2 or 4th edit) is a rewrite of the previous versions and has been expanded, reorganized and retitled. The chapters coming before Chapter 7 are foundational materials to understanding Chapter 7. The chapters coming after Chapter 7 are consequential to it.

Keely developed what seems to be entire fields of research mostly akin to our non-classical quantum physics and quantum mechanics decades before these fields existed⁴. Keely was splitting the atom in the 1880s⁵ working on his own and with few resources fifty years before mainstream science had a clue. Conventional science at that time period considered the atom to be indivisible. Yet here was Keely splitting the atom and releasing its awesome

¹[Daniel Brinton]

²Appendix I and II

³see Appendix III - Ultimate Constitution of Matter

⁴[Sympathetic Vibratory Physics]

⁵[Keelys Accomplishments]

powers. Because the scientists and engineers “knew” this was impossible most would not could not believe what Keely was demonstrating to them. Political correctness (dogma and doctrine) didn’t work well then either.

It should further be noted Keely worked with the forces and laws that govern matter and energy (non-classical physics). Conventional science and engineering works with things and their motions (classical physics). The distinction between these two very different fields is all important. Most people who have witnessed or read Keely and Russell look at their work from the classical viewpoint and miss everything that was intended. Their first reaction is to condemn Keely and Russell for no other reason than they did not understand - not because Keely and Russell were wrong which they weren’t. They were simply too far ahead of their time and everyone else’s comprehension.

Unfortunately, or fortunately, Keely’s research lab notes, books⁶ and publications have not been available wherewith all his work could be studied. Therefore this book is limited to exploring Brinton’s paper as also the supporting definitions and explanations required to grasp the subject matter.

0.2 Hindsight is mostly 20/20

Within Keely’s philosophy and science are several fundamental concepts substantially different from conventional understandings. It must be remembered Keely developed these ideas years and sometimes decades before similar concepts were imagined or considered by orthodox science. After years of study it has been found these points to be not only essential to understanding Keely’s work but they are also more accurate conceptualizations. His work has a consistency, continuity, completeness and homogeneity not seen in other earlier models.

Essentially Keely discovered quantum mechanics and quantum physics decades before these fields were suspected to exist. He further devised means to power and operate mechanical devices⁷ with these quantum energy level forces - a feat that has yet to be fully achieved by modern science and engineer-

⁶[Keelys Lost Books]

⁷[Keelys Mechanical Inventions and Instruments]

ing. Keely's focus was primarily on 1) power development and production,⁸ whether by pressure from dissociated matter or rotation 2) discovering and harnessing the ultimate Source⁹ of all energy 3) demonstrating Mind is that ultimate source and 4) developing and proving out his theories through his many devices.¹⁰

0.3 Original Concepts

A few of Keely's original concepts that are somewhat different than conventional concepts would be but are not limited to:

- What vibration and oscillation (periodic motion) are.
- Causative (Scalar) constituent components of vibratory motion.
- Dynamical and structural nature of matter and its association with force and energy.
- Mind Force as primordial source of matter and energy.
- Fundamental definitions of basic manifestations of forces and energies such as
 1. Electricity
 2. Magnetism
 3. Gravity
 4. Mind / Consciousness
 5. Vibration and Oscillation

While many correspondences have been identified between Keely's work and conventional science some like the ones above have no clear correspondence or translation. These are new (for us) concepts and constitutes a new paradigm. It has been found the theories and philosophy of Walter Russell¹¹ coincides

⁸[Apergy - Power Without Cost]

⁹[Source]

¹⁰[Keelys Mechanical Inventions and Instruments]

¹¹University of Science and Philosophy <http://www.philosophy.org>

with, compliments and supports in countless ways Keely's ideas. Hence some Russell ideas and artwork are used throughout this book. The few Russell ideas incorporated herein are not all that compliment Keely's work as it would require several volumes to illustrate Russell's work alone. Both their works are vast if not outright encyclopedic in scope. The focus of this work is fairly concentrated and does not attempt to cover the entire gamut of their philosophies and sciences.

0.4 Analog Signal Generators

Keely developed his science and machines in a time before there were electronic or digital instruments such as signal generators, microphones, amplifiers, signal conditioners, synthesizers, transducers, accelerometers, speakers, etc. Therefore he made use of what was at hand - music instruments and simple disk, rod, cavity and string resonators were his signal generators. He invented devices to produce and test for frequencies in the high ranges of etheric and mind vibrations. A violin, zither, harmonica, stretched strings, tube resonators and chladni plates (gongs) among other simple and complex devices supplied his acoustic signals (simple frequencies) and chords (complex wave forms). He also developed precious metal wires and beads¹² that somehow multiplied multiple frequencies and conducted them without resistance. Peppered throughout the literature are many references to his copious use of diverse music instruments employed to excite various responses from his many devices. Below is a picture of one such device using a zither as part of a much more complicated device that also has within it rod, sphere, tube and plate resonators and a simple horn adorning its top.

¹²[Trexar], [Bixar], [Trextrinar]

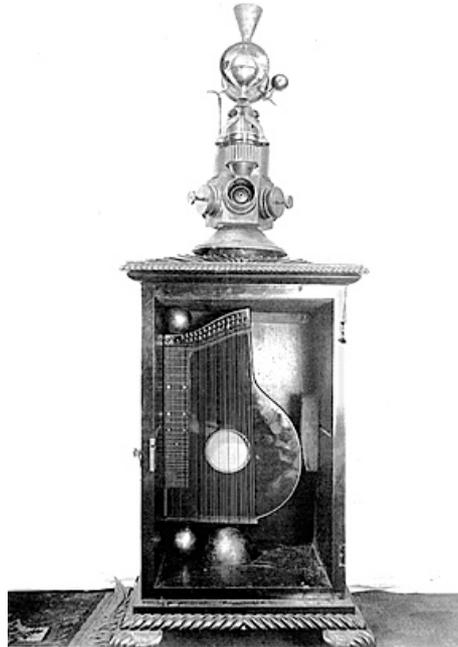


Figure 1: Example of an analog zither as acoustic source

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/zither.jpg>

0.5 Music as an Engineering Tool

Music is orderly organized sound. Noise is disorderly unorganized sound. Music allows the intelligent use of simple (notes) and complex tones (chords), time, amplitude, concord and discord (the basis of all vibration), wave form control and how these tools can be used. The study of music science incorporates numbers, arithmetic, geometry, history, philosophy and acoustics. Music is not unlike a shorthand approach to acoustics. Music is of the Whole Mind connecting physical science with higher states of consciousness.

“It (the study of music) gives (a knowledge of) a rhythm that is as necessary as law, in making any success in a material experience. Some knowledge of music and some knowledge of law are necessary in the experience of every male individual.” Cayce (903-3,4)

“That was a happy inspiration which led the Quintet Club, of Philadelphia, to pay a visit to the workshop of Keely a few weeks ago. Its members had been told that the illustrious inventor had employed the power of music to develop the wonderful forces of nature, and evolve by a law of sympathetic vibrations a mighty energy through the disintegration of a few drops of water. Naturally they were anxious to go. They were familiar with the claim by Paganini that he could throw down a building if he knew the chord of the mass¹³ of masonry, and wanted to know if it were possible that the dreams of the great violinist is realized at last.

“So nearly as can be made out from the mysterious language of the man of many promises, there is a harmony of the universe¹⁴ that is controllable by the strains of music. Each of the molecules composing a mass of matter is in a state of incessant oscillation, and these movements can be so much changed by means of musical vibration that the matter will be disintegrated¹⁵, its constituent molecules fly apart, and a propulsive force be generated similar to that which is evolved by the touching of a match to a single grain of powder stored in a magazine. He holds that matter is nothing but forces held in equilibrium, and that if the equilibrium be once destroyed¹⁶ the most tremendous consequences will ensue.

“According to the report, he proved to the satisfaction of more than one member of the club that he has already discovered the means of calling out this force, and is able to partially control it. In their presence he caused a heavy sphere to rotate rapidly or slowly, according to the notes given by the instrument on which he played. The sphere was so isolated as to prove that it could not be acted on by electricity or in any other way than by the sound waves. He disintegrated water¹⁷ into what he calls “etheric vapor”¹⁸ by means of a tuning fork and a zither. The disintegration of only four drops of water produced a pressure of 27,000 pounds¹⁹ to the square inch, and three drops of

¹³[chord of mass]

¹⁴see [Sympathy]

¹⁵[DISINTEGRATION OF MATTER - THREE SYSTEMS]

¹⁶[Disturbance of Equilibrium]

¹⁷[THEORY AND FORMULA OF AQUEOUS DISINTEGRATION]

¹⁸[Etheric Vapor]

¹⁹[PRESSURES PRODUCED BY VIBRATION]

*the harmless liquid fired off a cannon²⁰ with a tremendous roar.*²¹

Music incorporates ratio and proportion - the very base constructive elements of vibrations and oscillations.

0.6 A word of warning

It is highly unlikely the reader will grasp the entirety of this material on the first or second read through. One must learn the background ideas, basic or underlying definitions and concepts before the Light dawns in consciousness. This is not unlike learning a new language which does take some time, effort and consequent shifts in consciousness. Do not give up if you don't get SVP within the first five minutes! What you are learning here is PhD level or higher. It takes years of study to earn a PhD - SVP is no different in its level of commitment and materials except that SVP is far more interesting and satisfying.

Do not now or in the future presume what is presented here is the Truth carved in stone. Some is undoubtedly accurate while some not so much. Use your own discernment at all times. This book is my take on these ideas. It is my 'best guess' after years of careful study and deep contemplation. No doubt many will interpret Keely's work differently which is completely OK with me. It will, in my opinion, take many more years if not decades before Keely's work is sorted out, understood and applicable for humanity's benefit. The same goes for Russell's many books and drawings. To do a thorough effort to cover and decipher all that material would take a properly focused and funded team decades of dedicated effort - in my opinion.

0.7 How to use this book

Where terms or phrases are enclosed in brackets ([]) the reader is encouraged to look these up within the svpwiki.com. These bracketed terms are mostly in the footnotes at the bottom of each page. If a concept, word or phrase

²⁰[Cannon]

²¹[Keely and His Discoveries]

is not understood look it up. A good dictionary resource is onelook.com²². Learning Keely is learning a new jargon describing a new paradigm - it takes time to assimilate these new-to-us ideas. On top of that one is obliged to learn the jargons of several fields such as quantum mechanics and physics, chemistry, math, music, acoustics, metaphysics and several others. It then is a hard climb to the peak of understanding but the view will be worth it.

Due to the nature and expense of the printing process, especially color, imbedded images are black and white smaller low resolution facsimiles of the originals to which have been included below each image a link to the original color and/or higher resolution image.

0.8 Generalities and Idealism

The concepts covered herein are mostly generalities. There are some specifics. Usually a general concept is idealized for simplicity's sake. All phenomena are subject to countless influences, some major and some quite subtle all causing some degree of modulation in the simple models presented. A good example covered in 'Chapter 12 - Vortices and Toroids'. A torus is usually presented looking somewhat like a common donut. This is a gross over-simplification as the structural and functional elements in toroids are many, complex and dynamic. The treatment on these complex toroid structures and dynamics takes the basic idea then ventures into a bit more detail. One's lifetime is not enough to cover all the details of all the subjects touched on within Sympathetic Vibratory Physics [SVP]²³. I'll do what I can to provide details as I am able. Other unresolved details are left for later writings and to those so interested and driven to ferret them out.

Dale Pond²⁴
La Junta, Colorado

²²It has been found the older dictionaries are better to understand Keely and the science of that time period than newer dictionaries.

²³[Sympathetic Vibratory Physics]

²⁴[Dale Pond]

Contents

0.1	What this book is	4
0.2	Hindsight is mostly 20/20	5
0.3	Original Concepts	6
0.4	Analog Signal Generators	7
0.5	Music as an Engineering Tool	8
0.6	A word of warning	10
0.7	How to use this book	10
0.8	Generalities and Idealism	11
1	Ether as a Working Fluid	27
1.1	Something old something new	27
1.2	Energy Levels	28
1.3	Classification of Energy Levels, States or Phases	29
1.4	Michelson-Morley	31
1.5	Etheric or Quantum Carriers	32
2	Love in Science and Physics	35
2.1	First and foremost Love is sympathy	35
2.2	Love in Science and Physics	35
2.2.1	Sympathy essential	35
2.2.2	The state or condition of Sympathetic Association	36
2.2.3	Looking at the substance of a rock	36
2.2.4	Sympathy Connects Everything	37
2.2.5	Sympathy is simply another word for Love	37
2.2.6	Sympathy is Attractive	37
2.2.7	Individuated Complex Wave Functions	38
2.2.8	The state of pure Sympathy	38

3	Sympathy	41
3.1	Sympathy is Love	41
3.1.1	Infinitely Small Centers	42
3.1.2	Atomoles	43
3.1.3	Records of Motion are Seeds	43
3.2	Neutral Center of the Earth	44
3.2.1	Force of Sympathy	44
3.2.2	Sympathy is the Essence of Life	44
3.2.3	Sympathy is as Syntropy and Electricity	45
3.2.4	The rate of acceleration of Sympathy is enormous	47
3.2.5	Sympathetic Associative Forces	48
3.2.6	Sympathy is Entanglement	49
3.3	Sympathy defined	50
3.4	Recommended reading	52
4	Neutral Center	53
4.1	Neutral, Latent Neutral and Neutral Center	53
4.2	Neutral means	53
4.3	Coordination or coincidence of forces	55
4.4	Neutral Center	58
4.4.1	Disturbance of Equilibrium	59
4.4.2	Supreme Neutral Center	61
4.4.3	Keely further describes the Neutral Centers	63
4.4.4	Law of Transmissive Vibraic Energy	64
4.5	Divine Will - The Wheelwork Source of all Force	70
4.5.1	Center of Sympathetic Attraction	74
4.5.2	Center of Sympathetic Coincidence	74
4.5.3	Center of Association and Concentration	74
4.5.4	Center of Focalization and Transformation	75
4.5.5	Nucleal Center	75
4.5.6	Resistance	77
4.5.7	Prime Neutral Center	80
4.5.8	Supreme Neutral Center	80
5	Mind and Mind Force	83
5.1	Mind is Force	83
5.2	Whole vs Split Mind	84
5.3	Mind is of the Sixth and Seventh Subdivisions	85

5.4	Keely - Substance and Nature of Mind Force	86
5.5	Russell on Mind and Mind Substance	89
5.6	Mind is a Substance	90
5.7	Mind is also as an aggregate of consciousness	91
6	What is Vibration?	93
6.1	Quotes - vibration defined	93
6.2	A Vibration Is	94
6.2.1	Three Forces action on all Matter and Energy	95
6.2.2	Law of Attraction (syntropy)	96
6.2.3	Law of Repulsion (entropy)	96
6.2.4	Law of the Dominant (Celestial Mind Force)	96
6.3	Rad-Energy - entropic dispersion	96
6.3.1	Introductory Impulse	97
6.4	Vibration v Oscillation	97
6.5	What a Vibration is NOT	98
6.6	Wave Propagation	99
6.7	Frequency	100
6.8	Law of Cycles	100
7	Laws of Being	103
7.1	Introduction	103
7.2	Rhythmical Relations	104
7.2.1	Principle of Rhythmic Balanced Interchange	104
7.2.2	Every individualized object assimilates itself	104
7.2.3	These modes are today much like "phase"	107
7.2.4	'Thirds' is usually a mathematical relationship of pro- portion	109
7.3	Threefold Relations	109
7.3.1	Each of the above dynamics (IV) is a $\frac{1}{3}$ part or current of a $\frac{3}{3}$ stream	110
7.3.2	Ratios of Harmonic and Enharmonic Potentials	111
7.4	Three Actions and Laws of Being	111
7.4.1	Law of Sympathetic Association	112
7.4.2	Law of Assimilation	113
7.4.3	Law of Attraction	113
7.4.4	Law of Sympathetic Oscillation	113
7.4.5	Infinite neutral Mind centers and controls all motion	114

7.4.6	One Substance is Mind	115
7.5	Three Modes of Vibration	117
7.5.1	Polarity, Duality, Bias and Potential	117
7.6	Three Laws of Being	118
7.6.1	Dominant Mode	118
7.7	Table of Modes Correspondences	120
7.7.1	The above dynamics are to the following effects	120
7.7.2	Relations of Thirds	121
7.8	Three Modes, Currents and Streams	121
7.8.1	Ratios and Proportions of Thirds	121
7.9	Evolution of Matter	123
7.10	Neutral Center	123
7.10.1	Center of Sympathetic Coincidence or Neutral Center	124
7.11	Syntropy or Mutual Affinity	125
7.12	Subdivisions of Individualized Being	126
7.12.1	Table of Subdivisions of Matter and Energy	126
7.13	Arithmetical and Geometric Progressions	127
7.14	Progressions of Orders	127
7.15	Infinite Range of Vibration	127
7.16	Progression Types	128
7.16.1	Arithmetic and Geometrical Progressions	128
7.17	Three Major Orders	129
7.17.1	The above are not “things”	129
7.18	Controlling Mode	130
7.18.1	Modes combine in unique proportions	130
7.19	Modes as actual components	130
7.20	Foundational Concepts	131
7.20.1	Balance or Equation of Father-Mother Forces	131
7.21	Latent Force	132
7.21.1	Matter is the result of three forces or modes of vibration	132
7.21.2	Latent Force, Keely	135
7.22	Sympathy and Resonance	136
7.22.1	Attraction and a Repulsion between all things	136
7.23	Matter composed of Molecules	137
7.23.1	Attraction is an effect of Syntropy	137
7.24	Molecules are sensitive to modes	138
7.25	Oscillations of Molecules	138
7.26	Disturbance of Equilibrium	139

7.26.1	Disturbance of Equilibrium, Gravity	140
7.27	Sixths induces Neutral Radiation	141
7.27.1	Seeming Paradox	142
7.27.2	Exciting the Molecular Mass	142
7.28	Third is the Dominant	142
7.28.1	Harmonic Resonant Impulse	142
7.29	The Dominant or Etheric Mode	143
7.29.1	Etheric Current	143
7.30	Centers of Harmonized Vibration	144
7.31	Sympathetic Outreach (sympathy/resonance field effect)	144
7.32	Etheric Outreach	145
7.32.1	Law of Transmissive Vibraic Energy	146
7.32.2	Etheric vibration is the cause of sympathetic association	146
7.33	Chord of Mass	147
7.33.1	Qualifiers	147
7.33.2	Law of Harmonic Pitch	147
7.34	Controlling Chord of Mass	147
7.34.1	Equilibrium or Balance cannot exist	148
7.34.2	Law of Cycles	148
7.34.3	Table of Transformation over Time	148
7.34.4	Law of Transformation of Forces	149
7.35	Harmonizing Chord of Mass	149
7.36	Molecular Oscillation	149
7.37	Transmitting Concordant Impulses	150
7.37.1	Law of Vibrating Atomic Substances	150
7.37.2	Frequencies of the Modes	151
7.38	Vibratory Rotation	151
7.38.1	Microwaved Radiometer	151
7.39	Rotation	152
7.39.1	Medium for inducing a Neutral Center	152
7.39.2	Keely on Rotation	153
7.39.3	Power of Rotation	155
7.39.4	Receptive Transmittive Concordance induces Rotation	156
7.39.5	Polar and Depolar Differentiation result in Motion	156
7.39.6	Neutral Center or fulcrum represents Focalization	157
7.39.7	Rotation of the ether produces condensation	157
7.39.8	Controlling “negative attractive”	158
7.39.9	Testing Positive and Negative Rotation	158

7.39.10 Russell on rotation	158
7.40 Controlling negative attraction	159
7.41 Notes	159
8 Modes of Vibration	161
8.1 Two models of three modes	161
8.2 Three Modes of Vibration	162
8.2.1 Compression or Longitudinal Wave or Mode	162
8.3 Three Modes of Vibration	162
8.3.1 Transverse or Shear Wave or Mode	163
8.3.2 Rayleigh, Lamb or Love Wave or Mode	163
8.4 Introduction to Keely's Wave Function	165
8.5 Feynman Morphology	166
8.6 Footnotes	169
9 Keely Wave Function	171
9.1 Introduction to Keely's Wave Function	171
9.1.1 Law of Transformation of Forces	173
9.2 Thirds as Ratios within a Whole	174
10 Proportions (Ratios) of Relative Values	179
10.1 Proportion	179
10.2 Reciprocating Proportionality	180
10.3 Reciprocating Proportionality	181
10.4 Reciprocal Proportion	182
10.5 Reciprocals and Proportions of Motions and Substance	184
10.6 Thirds as Ratios within a Whole	185
11 Universal Heart Beat	187
11.1 The Love Cycle	188
12 Vortices and Toroids	201
12.1 Vortices	201
12.2 Vortex Components	203
12.3 Vortex Dynamics	204
12.4 Vortex Action is rotary	204
12.5 Vortex Center	205
12.6 Vortex Polar Forces	207

12.7 Vortex Periphery	207
12.8 Vortex Wall	208
12.9 Toroid	208
12.9.1 Sympathetic Associative Attraction	209
12.9.2 Law of Cycle	210
12.9.3 Neutral Center Repulsion	211
12.9.4 Periphery Neutralization or Depolarization	212
12.10 Plane of Inertia	212
12.11 Free Space	213
12.12 Etheric Envelopes	215
13 Electricity and Magnetism	219
13.1 Electricity is a Polar State Dipole	219
13.1.1 Voiding the Dipole or Polarity	219
13.1.2 Conduction	220
13.1.3 Polar and Depolar States	220
13.2 Keely on Electricity	220
13.3 Russell on Electricity	226
13.4 Tesla on Electricity	230
13.4.1 Summary	232
14 Gravity	233
14.1 Keely on Gravity	233
14.2 Keely and anti-gravity	235
14.3 Levitation experiments	237
14.4 Russell on Gravity	240
15 Bibliography and References	243
A I - Laws of Being	247
B II - Laws of Being	255
C III - Ultimate Constitution of Matter	263

List of Figures

1	Example of an analog zither as acoustic source	8
3.1	Opposite polar forces void/combine as One	47
4.1	Universal Seesaw balancing seeming opposites	54
4.2	From the One comes the many	63
4.3	Coincidental forces meet at center	66
4.4	Neutral Center - creator of nebula and galaxies	67
4.5	Keely's Compound Disintegrator	68
4.6	Liberating and measuring Etheric Vapor pressures	69
4.7	An earlier Liberator design	70
4.8	Sympathy Links all Centers to all other Centers	71
4.9	Neutral Center is Mind or Consciousness of God	72
4.10	Neutral Center is as mind or consciousness	73
4.11	Syntropy winding up force to 4++ center	76
4.12	Entropy unwinding energy to 0 Plane of Inertia	77
4.13	Russell's 4 plus plus center of polar opposition	78
4.14	Cavitation is an example of the Law of Cycles	79
5.1	Whole and Split Mind	85
5.2	Red and Blue halves of the visible light spectrum	89
5.3	Red and Blue halves of Polar states	90
6.1	Four Phases of a Wave or Oscillation	100
7.1	Sympathetic Vibration - Entanglement	107
7.2	Chart showing location of the three mode frequencies.	108
7.3	Triune Forces/Modes/Proportions combined as One Force	110
7.4	Typical Triplet Chords in Keely's charts.	111
7.5	From the One comes the many.	115

7.6	Mind centers all motion.	116
7.7	Every point in the universe is a gravitative center.	124
7.8	Table of seven subdivisions or orders.	126
7.9	Keely Motor activated by slow released etheric vapor	134
7.10	Keely's cannon fired by quick release of etheric vapor	135
7.11	Table of Transformation of Forces over Time	148
7.12	Globe motor actuated by rotary vibratory dynamics	153
7.13	Keely's globe motor and provisional engine	154
7.14	Keely and his globe motor or dynasphere	154
7.15	Pond's replication of the globe motor or dynasphere	155
8.1	Coiled Spring showing Longitudinal Wave	162
8.2	Compression and Rarefaction in a Wave	163
8.3	Transverse Wave	163
8.4	Relationship of Three Modes	164
8.5	Suppositional Math and Symbolic Structure	165
8.6	Feynman's triplet structures of the proton and neutron	166
8.7	Table of ranges of forces, forms and laws	167
10.1	One Balanced Whole and Two Reciprocating Dynamics	181
10.2	Plane of Inertia	183
10.3	Scale of 0 to 4 to 0	183
10.4	Nested cubes or increasing and decreasing proportions	184
11.1	Universal Heartbeat	187
11.2	Neutral Center 4++ extention to periphery 0	191
11.3	The basic formula of Creation	198
11.4	Formula of Rhythmic Balanced Interchange	199
12.1	Differential densities, pressures and masses	202
12.2	Tornado Vortex	203
12.3	Vortex showing a few of its many components	204
12.4	The depolar One divides into duality/polarity	206
12.5	Triune Forces of a vortex	207
12.6	Typical idealized torus, toroid or "donut" concept	208
12.7	Ideally toroids are two vortices meeting apex to apex	209
12.8	Wave elements of Time, Compression and Dispersion	210
12.9	Compression to center then equatorial dispersion	211
12.104++	at center of transformation	211

12.11 Depolar state at plane of inertia 212
12.12 Triune polar forces as One Force about a common center . . . 213
12.13 Three double vortices 214
12.14 Keely's three envelopes or shells 215
12.15 Three overlapping envelopes or shells sealing poles 216

13.1 Neutral Center governing seeming opposite potential states . . 222
13.2 Triune Forces of Magnetic Field in Magnet 225
13.3 White Light of Mind divided into red and blue halves 227
13.4 Attractive (syntropic) power of electricity 228
13.5 Polar dynamics of electricity 229

14.1 Keely's experimental air ship 237
14.2 Levitating weights 238
14.3 Gravity wave bar and poles 241

List of Tables

5.1	Keely's Seven Subdivisions of Matter and Energy	86
7.1	Three Polarity States and Effects	118
7.2	Table of Mode Correspondences	120
7.3	Some Mode Effects	120
7.4	Thirds, Sixths and Ninths	121
7.5	Mode Frequency Ranges	128
7.6	Hypothetical controlling Modes and Proportions	130
7.7	Thirds, Sixths and Ninths Intervals	140
8.1	Modes of Vibration	166
8.2	Table of attributes of the three modes	168
8.3	Keely's three modes; subdivision, octave and law	168
9.1	Ranges of forces vibration forms types and laws	173
9.2	Neutral (thirds); energy radiates from center (sixths); force contracts to center (ninth)	176

Chapter 1

Ether as a Working Fluid

1.1 Something old something new

Has the Victorian Ether¹ been rediscovered? I believe it has. Science has been brow-beat to never ever use the term “ether” or *else*. Such a threat has perpetuated a clear state of ignorance in direct proportion to holding back true scientific progress. The too often used blanket statement “*Ether does not exist*” is nothing short of dogma and therefore decidedly unscientific. But no one (openly) questions that statement out of reactionary inquisitorial fear. Had any questioned it they would have seen the term “ether” is 1) a general concept and not specific and 2) there is obviously ‘something’ unseen and unacknowledged operating at finer levels of 3) classifications or states of matter and energy. It would require a book-length expose to show not only does the ether exist and has always existed but it is now being seen by conventional science under different eyes because the general catch-all term ‘*elemental particle*’ is being applied to a multitude of new classifications of sub-atomic or quantum entities both elementary and composite. We could take all these ‘new’ quantum entities or higher classifications of matter and energy states and interactions and lump them under the term “ether” and we would then know what ether is. Ether to SVP is simultaneously a ‘classification’ or ‘state’ and depending on context a ‘thing’. This puts us into a nice position of understanding what Keely called “Ether”, “Etheric Vapor”², *etc.* and still be on a solid scientific footing which none could successfully

¹[Ether]

²[Etheric Vapor]

assail.

Quark-Gluon Plasma (QGP) “The strength of the color force means that unlike the gas-like plasma, quark-gluon plasma (QGP) behaves as a near-ideal Fermi liquid, although research on flow characteristics is ongoing. In the quark matter phase diagram, QGP is placed in the high-temperature, high-density regime; whereas, ordinary matter is a cold and rarefied mixture of nuclei and vacuum, and the hypothetical quark stars would consist of relatively cold, but dense quark matter.”³

Compare the above description to

Liquid Ether “*The atomolic⁴ substance is what is termed the ether which fills all space and is the transmitting medium for all celestial and terrestrial forces. This is the liquid ether of occult science.*” Keely

Both named substance are 1) subatomic entities, 2) liquids and are 3) conducting or transmitting⁵ mediums of/for diverse forces. I do not at this point consider QCP as elementary as it is a composite conventionally classified within the “Very high energy state” of matter and energy. It therefore ought to be classified to correlate with Keely’s Interetheric subdivision⁶. To ferret out all this “new” information one could begin with the svpwiki.com pages “State” and “Subdivision” then proceed to Wikipedia, States of Matter, *etc.* Again many volumes could be researched and written about this one aspect of SVP correlated to conventional science.

1.2 Energy Levels

For the purposes of this document “Ether” (quantum energy level substances) is considered as a *Working Fluid* not unlike refrigerants in a cooling system where liquid is converted into gas state then back to liquid state by varying pressure and temperature. Molecular substances that can undergo this type of repeating phase change without changing their chemistry are called

³Wikipedia/Quark-Gluon Plasma

⁴[etheric]

⁵[Connecting Link]

⁶[Subdivision]

1.3. CLASSIFICATION OF ENERGY LEVELS, STATES OR PHASES²⁹

azeotropic fluids of which there are a great variety on the market. The only thing that changes within such a system is the Wave Function⁷ (mathematically defined state) of the Working Fluid. In this context Ether, being and viewed as an azeotropic fluid, may be (generally speaking)

Molecular, as in liquid water or water vapor (composed of molecules)

Atomic, as in Hydrogen and Oxygen and (composed of atoms)

Etheric, as in Electrons, Protons, Neutrons, Photons, Quarks and Gluons, etc. of which there are a great variety. (composed of quantum entities)

Hence there are many types and variations of these three main classifications each possessing their own identifying state or Wave Function. These states or Wave Functions are interchangeable according to Keely's Law of Transformation of Forces⁸. The first two above states operate within what is called *classical* physics (sometimes called Newtonian Physics, 3D, materiality, *maya*, etc.) and obey its laws. The third state or classification operates within *non-classical* physics (sometimes referred to as Quantum Physics, Quantum Mechanics, Quantum Electrodynamics, Subtle Energy Physics, Mind Physics, Scalar Physics or Spiritual Physics). As is well known the third state or classification of non-classical physics does not operate according to principles of classical physics even though many foolishly attempt to apply classical physics laws to these subtler (non-classical) states of matter and energy.

1.3 Classification of Energy Levels, States or Phases

SVP establishes a seven-level matter and energy classification having the three main divisions of molecule, atom and ether. The modern classification is not as simple or neat. Modern science has identified multiple classes or types of *associations of quantum entities*. Several of these associative states are theoretical meaning they are hypothesized but not yet "proven". Several

⁷[wavefunction]

⁸[Law of Transformation of Forces]

others are well established and accepted.⁹ The modern states that are listed below may be associated with Keely's "Etheric" state or subdivision are (but not limited to)

I - Low Temperature states

1. Superfluid
2. Bose-Einstein condensate
3. Fermionic condensate
4. Rydberg molecule
5. Quantum Hall state
6. Strange matter
7. Photonic matter

II - High-energy states

1. Degenerate matter
2. Quark-gluon matter¹⁰
3. Color-glass condensate

III - Very high energy states

The High-energy states may be considered in this document as 'states of ether' of which there are countless variations. It is not our intent to delve into the intricate details of these states. It is however our intent to explore and clarify how some aspects of these etheric states associate, behave and have their being. These high energy states as defined as ether or '*atomolic substances*':

"The atomolic substance is what is termed the ether which fills all space and is the transmitting medium for all celestial and terrestrial forces. This

⁹[Wikipedia; States of matter]

¹⁰[svpwiki.com; Quark-gluon plasma]

is the liquid ether of occult science.” Keely

“For convenience’ sake we will use the term atomolic in place of etheric in our subsequent definitions.” Keely¹¹

1.4 Michelson-Morley

Keely’s quantum discovery work preceded even the discovery of the electron in the early 1890s¹². Keely’s pioneering work with *splitting the atom* into its constituent quantum elements predates quantum mechanics and quantum physics by decades. This accomplishment¹³ predates any official recognition fields such as these existing within quantum realms of matter and energy - because they didn’t exist to victorian science unless it be referred to as *Ether*. In fact the atom was considered as *indivisible* by orthodox science of that day. No scientist or engineer of that time period had a clue what Keely was doing because his ideas were never suspected by science or engineering. In consequence he developed his own terms which worked for him as he applied his findings to design and operate his innovative hybrid quantum/mechanical devices¹⁴¹⁵ of diverse designs and purposes - mostly to prove out his theories as he constructed his paradigm of Sympathetic Vibratory Physics which he sometimes called Vibratory Etheric Physics or simply Vibratory Physics. Of course as there were no other scientists or engineers aware of quantum mechanics and physics in Keely’s day there was no one who could understand or verify what he was doing. The best they could do (the honest ones of integrity) was to witness Keely’s demonstrations and report what they thought they saw without offering any explanations.¹⁶ The dishonest ones or those who felt threatened by knowledge they knew nothing about (despite their lofty degrees) condemned everything Keely did as fraud or fakery¹⁷.

From the above and with 20/20 hindsight we can see the Michelson-Morley

¹¹[Dashed Against the Rock, p. 47]

¹²Depends who you ask.

¹³[Keelys Accomplishments]

¹⁴etheric or quantum forces powering mechanical machines

¹⁵[Keelys Mechanical Inventions and Instruments]

¹⁶[Eye Witness Accounts]

¹⁷[Was Keely a Fraud]

experiment did not prove the ether did not exist. It simply proved the ether or the now known to exist high-energy states could not be detected or measured with his crude equipment built and operated with their incomplete classical physics paradigm that did not include non-classical physics even though is what they were hoping to verify.

Keely said etheric substances are so tenuous as to pass through seeming solid matter as wind through “*a coarse sieve*”. If his view is correct there was no possibility Michelson and Morley were going to impede or measure any resistance caused by ether.

“The negative sympathetic polar stream is the magnetic flow proper, and it is in sympathetic coincidence¹⁸ 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.” (underlines added)¹⁹

1.5 Etheric or Quantum Carriers

These high-energy states or tenuous substances are *carriers* or conductors of subtle imperceptible forces or disturbances that once excited will manifest as other perceptible detectible phenomena. These streaming forces are Keely’s Sympathetic Streams²⁰. These fine subtle forces are therefore the unseen and often unsuspected scalar or causative forces manifesting as other lower frequency coarser effects of attraction, repulsion and rotation. This book is about identifying and manipulating these subtle unseen constituent forces that we may be enabled to create desirable effects such as magnetism, electricity, health, gravity effects, rotation and all of their attributes and variations. As carriers of excitation or disturbances²¹ they are therefore as connecting

¹⁸[sympathetic coincidence]

¹⁹[Keely], [ATTRACTION PROPULSION ETC], [16.21 - Magnetic Flow]

²⁰[Sympathetic Streams]

²¹[13.12.1 - Disturbance of Equilibrium]

links²² between the seven subdivisions²³ of matter and energy states thus affecting transformations or transmutations of these energy states²⁴ between themselves whether moving into or out of higher or lower energy ranges manifesting as *centralizations* or as more commonly called - *particles*.²⁵ These unseen and unacknowledged subtler forces are the constructive constituent elements making up the wave function of all known states of matter and energy.

One of the more significant attributes of this Dirac Sea-like²⁶ substratum of the universe is it's vibratory uniformity and harmony establishing a sympathy between centers or centralizations which modern science now calls *quantum entanglement*. Keely called this ubiquitous harmonic state of being between entities *sympathetic association* and is governed by the Law of Sympathetic Association²⁷. The active link between centralizations or particles is their inherent vibrations and oscillations. When these periodic motions form unisons or harmony between secondary and tertiary harmonics are called sympathetic vibration and sympathetic oscillation. It is this sympathy between periodic motions that is the cause and link seen in "action at a distance"²⁸ phenomena such as quantum entangle²⁹ment, remote viewing, mind to mind³⁰ communication, telepathy, telekinetic actions, *etc.*³¹ As we will see another synonym for this universal sympathetic attribute of and between all centralized energy states (centralizations, particles) is Love (as one).

²²[connecting link]

²³[Subdivision],[State]

²⁴[Law of Transformation of Forces]

²⁵[connecting link], [Vibratory Physics - The Connecting Link between Mind and Matter], [The Connecting Link Between Mind and Matter - Keelys Progress - Part 2]

²⁶[Dirac Sea]

²⁷[Law of Sympathetic Association]

²⁸[action at a distance]

²⁹[telepathy]

³⁰[mind to mind]

³¹[action at a distance]

Chapter 2

Love in Science and Physics

2.1 First and foremost Love is sympathy

First and foremost Love is sympathy or that which connects (entangles) all things to all else. In SVP, sympathy does NOT mean “feeling sorry” but means “feeling the same as”, “as one” or “one with”. Some might call this “empathy”, “harmonization”, “resonance”, “bonding”, “coupling” or “entanglement”.¹

“Love is the Creative Force of All that Is.”²

2.2 Love in Science and Physics

2.2.1 Sympathy essential

This harmonious high-energy state of matter and energy is everywhere the same. It, by its nature, is that which connects everything to everything else. Without this unity of being the universe would be fragmented, separate and discontinuous. It is a universal bonding agent without discontinuities. Should anything be disturbed everything else responds in like fashion as their essences (constituent elements) are entangled.

¹[Sympathetic Association], [Law of Sympathetic Association], [Law of Assimilation], [Harmony], [Affinity], [Attraction], [Awareness], [Knowing], [Universal Love], [Christ], [Science], [Truth], [Coupling]

²[Dialogue on Awakening], page 160

*“Where there is no sympathy there can be no love, for love is sympathy.”*³

2.2.2 The state or condition of Sympathetic Association

The state or condition known as Love is important to science and physics because this state or condition is what underlies and connects all seeming individuated things. Love is a condition or state of vibration that links or entangles all things to all other things everywhere, essentially eliminating Time and Space. Which is to say all things are quantum entangled. This statement appears false as we do not perceive it to be the case when we see every thing as seemingly being separate and distinct. Our perception (opinion) is of the physical or molecular state, form and color of things. For instance, a rock is a molecular mass appearing to have an individual existence all by itself. So we see the mass which we can pick up and move it around and not physically see a connection to any other thing or rock not realizing the rock is a portion of the earth and is resonant to the earth else it would not remain either on the earth or in a molecular state or both. *Should we consider just the electrons and photons making up every thing that is, regardless of location, as being essentially the same, vibratorily speaking, how can they not be entangled?*

2.2.3 Looking at the substance of a rock

Looking at the substance of a rock (for instance)

We know

- 1 - it is composed of molecules which are composites of atoms.
- 2 - these atoms are composed of electrons, protons and neutrons.
- 3 - these elementary entities are composed of photons.
- 4 - photons are composed of quarks⁴.
- 5 - all these above entities vibrate and oscillate perpetually at given rates and amplitudes and as *modulated by their near and far vibratory environment*.
- 6 - that individual objects of the same frequencies or chords of frequencies are sympathetically linked or entangled to and with each other. As every type of

³[Vera Vita the Philosophy of Sympathy]

⁴https://en.wikipedia.org/wiki/Photon_structure_function

quark, photon and electron are essentially the same⁵ no matter where they are we can say all these particles are sympathetically linked or entangled to each other to varying degrees or gradients. They have the same or very similar Wave Function^{6,7}

2.2.4 Sympathy Connects Everything

Thus this underlying sympathy that dynamically connects these seeming individual entities is the unseen Connecting Link⁸ that connects them all. This Connecting Link functions on the 6th and 7th subdivisions⁹ of Matter and Energy and permeates all forms of matter whether in solid or fluid form.

2.2.5 Sympathy is simply another word for Love

Sympathy is simply another word for that state of being known as Love, Harmony, Coupled or Quantum Entanglement.

2.2.6 Sympathy is Attractive

It is this sympathy or sympathetic affinity of vibration or oscillation rates that binds, unites or coheres like entities to one another whether they are quarks, atoms or people individually or in groups. This property of vibratory attraction was demonstrated by Carl Bjercknes¹⁰ in 1881 and is a fundamental dynamic of SVP.¹¹ Likewise vibratory attraction is the cause of syntropy¹² (negative entropy¹³) another basic and important dynamic of SVP.

⁵notwithstanding near and far, seen and unseen vibratory influences and/or modulations

⁶[Wave Function]

⁷[Entanglement], [Subdivision]

⁸[Connecting Link]

⁹[Subdivision]

¹⁰[Carl Anton Bjercknes]

¹¹[Bjercknes Effect], [Law of Attraction], [Syntropy]

¹²[syntropy]

¹³[negentropy]

2.2.7 Individuated Complex Wave Functions

Having said all that it must be also stated that no two electrons are exactly the same compound chord of frequencies (complex wave function or spectra) at any given moment in Time and location in Space. They do all possess certain ‘standard’ chord configurations in common else they would be something other than electrons. Each has a slight and ever changing variation dependent upon modulating forces such as local gravity, electric and magnetic influences, pressures, temperatures, *etc.* If these subtle differences were not present then destroying one electron would destroy them all and as we see a continuity happening with the universe we can see this completely entangled sympathy does not occur on the electron subdivision. Some aspects of electrons are fully entangled other aspects not so much. On the other hand should we progress to the next subdivision, the photonic or light, we see a higher degree of sympathy or harmony between the photons than the sympathy that exists between electrons. This is because there are less frequency parameters (simpler chord or signature) to a photon than has a larger group of photons manifesting as an electron. Likewise we can advance to the next higher subdivision of quarks and notice there is again another higher degree or “Q” of sympathy than with the lower grosser photon or electron subdivisions. There is yet another higher level of subdivision which Keely called the Compound Interetheric or Undifferentiated Mind Force and substance. He indicated this level is not differentiated and is wholly sympathetic unto and within itself. A pure (latent) sympathy if you will being of course pure Love or Oneness of vibratory Being. Religions have called this state or condition of total Love or sympathy many names from God, Nirvana, Allah, Jehovah, Heaven, *etc.*

2.2.8 The state of pure Sympathy

This state of pure sympathy acting in a highly sympathetic medium (etheric, quantum subdivisions) means no matter what happens anywhere in this sympathetic medium such is communicated to all of the medium simultaneously and the velocity of communication is near instantaneous.¹⁴ Now, is not this instant awareness or knowing of what is going on regardless of distance (space) an omniscience? Is this not a “Self Awareness” of the underlying universal matrix we call the universe? Does this interconnectedness not account

¹⁴[Quasiparticles carry entanglement to near infinite speeds]

for shared Mind phenomena such as remote viewing, clairvoyance, spooky action at a distance, and telepathy?¹⁵

This background or ground state sympathy was established when quiescent Divine self-awareness occurred and before active thought or thinking began. This state is not unlike the initiatory Void of Genesis. An undifferentiated state of “perfect continuity without extension”. The originating state of neutrality of a Neutral Center cannot change but its effects once disturbed are always changing.

¹⁵[Mind Force the hidden Scalar Force]

Chapter 3

Sympathy

3.1 Sympathy is Love

Sympathy is Love or that which connects (entangles) all things to all else. When the frequency of vibrations are one there is unison and sympathetic resonance¹. In SVP, sympathy does NOT mean “feeling sorry” but is “feeling the same as”, “one with”, “as one”, concordant, harmonic or entangled with identical or near identical states with near identical wave functions.² With this insight we can see Sympathy is a vibratory state of matter and energy with its own waveform, spectra and wave function. It is a real state or condition existing throughout nature and is a condition we can know, understand and engineer³. For instance between two tuned tuning forks exists this state of sympathy, sympathetic vibration or sympathetic association. The sympathetic vibrations and oscillations originating from each fork and active between them creating this shared state, can be modified to increase or decrease the state of sympathy existing between them. The fact that they are sympathetic and co-vibrate together is called *resonance* which only occurs within this state or condition of sympathetic association via sympathetic vibrations and oscillations.

¹[Sympathetic Resonance]

²[Concord], [Harmony], [Affinity], [Attraction], [Awareness], [Knowing], [Universal Love], [Christ], [Science], [Truth], [Coupling]

³“Engineering with Love”, <http://svpbookstore.com/>

3.1.1 Infinitely Small Centers

The infinitely small strings of the String Theory are a classical physics concept of oscillating physical strings extrapolated to the non-classical quantum realm and is a *non sequiter*. Such is an attempt to apply known or assumed classical oscillation dynamics associated with an oscillating 3D or physical string, which are also poorly understood and in error, as an answer or postulate to address presumed quantum dynamics.⁴ Should we replace the hypothetical infinitely small oscillating strings as held in the String Theory with infinitely small constructive (virtual or actively created by virtue of dynamics and purpose) centers that vibrate, pulsate and oscillate like tuning forks it can be seen how every center is sympathetic (in sympathy) with every other center and are therefore quantum entangled; *i.e.*, (sympathetic to one another). All of these centers form One Continuous Continuum of sympathetic (entangled) centers and is everywhere throughout Space permeating every seeming separate or seemingly individualized object. What connects all these sympathetic centers is a state of etheric level high-grade sympathy creating a condition of sympathetic association - one with all others⁵. This would of course imply a single fundamental tone or frequency at the very heart/core of the universe. Keely called these centralizations of orchestrated motion “atomoles”⁶. Therefore what is experienced by one center is to a degree experienced by all other centers regardless of Time and Space. Being mutually responsive to excitation where all are aware of all others we may term this continuum the Whole Undifferentiated Mind of the universe. Mind or Consciousness being synonyms for Keely’s Compound Interetheric state. Some over the years have referred to this continuum and its sensitive responsive properties as God and have erroneously anthropomorphized it even though it is the root of Awareness and cognition. Being sympathetic these centers can be stimulated or excited by an appropriate exciter⁷. That exciter being clear focused Mind Force, Thought, Volition or idea.⁸ Other different state excitations (stimulations) on coarser molecules and atomic substances could be acoustical, electrical, microwave or physical or similar.

⁴see ‘Chapter 6 - What is Vibration?’

⁵[Law of Assimilation]

⁶[atomoles]

⁷[Exciter]

⁸[What is Sympathy]

3.1.2 Atomoles

Atomoles (atom = unit + mole = power) = Power Unit, are primordial particles (preferably ‘centralizations’) filling all space.

“Atomoles are elementary units of matter uniform in size and weight, and exist in solid, liquid, gaseous, and isolated forms.” (plural ‘atomolini’)⁹

*“The atomoles are made up of atomolini (singular atomolinus); the subdivision of matter from this point is beyond man’s power, as at this point it escapes all control of apparatus, passing through glass and hardened steel as a luminous flame without heat, which is hardly seen before it vanishes, - a perpetual flame coldly luminous.”*¹⁰

*“The atomolic substance is what is termed the ether which fills all space and is the transmitting medium for all celestial and terrestrial forces. This is the liquid ether of occult science.”*¹¹¹²

3.1.3 Records of Motion are Seeds

Walter Russell refers to these excitable (plastic) centers, when considered as One Continuous Continuum, as points of 4++ (voiding and dispersion) and as “seeds” or “ideas”. These seed centers correspond to Keely’s Neutral Centers conditions of birth to all seeming things in a progressive evolutionary manner.

*“Records of Motion are seeds for repetition of motion. In the seed is desire for manifesting imaged forms of idea. All forms are wave forms. All wave forms unfold from seed records of those wave forms.”*¹³

⁹[Keely]

¹⁰Keely, 1893

¹¹Keely, 1893

¹²[Connecting Link]

¹³Russell, [The Secret of Light], page 137

3.2 Neutral Center of the Earth

“In setting the conditions of molecular sympathetic transmission by wire, “writes Keely, “the same law calls for the harmonious adjustment of the thirds, to produce a non-intermittent flow of sympathy. Intermission means failure here. That differential molecular volume is required, in two different mediums of molecular density, to destroy differentiation¹⁴ of sympathetic flow, seems at first sight to controvert the very law established by the great Creator, which constitutes harmony - a paradoxical position which has heretofore misled physicists who have propounded and set forth most erroneous doctrines, because they have accepted the introductory conditions, discarding their sympathetic surroundings. The volume of the neutral centre of the earth is of no more magnitude than the one of a molecule: the sympathetic conditions of one can be reached in the same time as the other by its coincident chord.”¹⁵

3.2.1 Force of Sympathy

“There is no force in all creation more real or more powerful that the force of sympathy.”¹⁶

Sympathy may be considered a force because it provides a harmonizing modulation. Where there is discord or enharmonicity Sympathy exerts an influence, of its own accord and nature, converting or transforming that imbalance back to balance or harmony. Discord, entropy or differentiation may be considered as a disturbance of equilibrium which imbalance is restored by Sympathy - harmony or balance being the natural eigenfrequency (wave form and wave function) of the universal matrix - with preponderance of syntropy during growth and a preponderance of entropy during death.

3.2.2 Sympathy is the Essence of Life

“Sympathy, like a human electricity, is the essence of life.”¹⁷

¹⁴[differentiation]

¹⁵[Keely], [Law of Sympathetic Association]

¹⁶[David Sinclair], [A New Creed the book]

¹⁷[David Sinclair], [A New Creed the book]

*“There is a celestial mind force, a great sympathetic force which is life itself, of which everything is composed.”*¹⁸ Keely¹⁹

*“Life is creative, and is the manifestation of that energy, that oneness, which may never be WHOLLY discerned or discovered in materiality, and yet is the basis of all motivative forces and influences in the experiences of an individual.”*²⁰

For life or Life Force²¹ to be creative it must be syntropic - that building process of assimilating elements its environment - to itself. As this Life Force cannot be discerned strictly in materiality or the 3D classical world it must be of the unseen non-classical scalar forces such as Mind. Hence Keely’s use of the term *celestial mind force*²² also known as *celestial radiation*²³.

3.2.3 Sympathy is as Syntropy and Electricity

*“The powers of electricity have not hitherto been observed, nor have the origin and importance of sympathy. The electric marvels of the present day were in electricity thousands of years ago, but there was no practical observer to utilize them. Sympathy is as everlasting and all-powerful as electricity is. Men, in their honest research for human happiness, will put it to the test, and the new insight it will give to life will be more marvelous than the marvels of electricity.”*²⁴

What David Sinclair²⁵ is saying here is sympathy as a force or state exists and can be engineered. That science has not recognized this state of being existing and operating as an ubiquitous construct of the universe is lamentable. Keely recognized it to such an extent he has able to utilize its properties in his science and incorporated it as a usable function in their dynamics. It is a simple fact that unless a property is acknowledged to exist

¹⁸[Life]

¹⁹[Celestial Radiation]

²⁰Cayce (2012-1)

²¹[Life Force]

²²[celestial mind force]

²³[Celestial Radiation]

²⁴[David Sinclair], [A New Creed the book]

²⁵[David Sinclair]

it cannot be utilized. We can look at this state of being as a restorative force. Natural systems are in a state of equilibrium. Sympathy, as a pre-existing condition of dynamic systems, will restore that balance or equilibrium should the system be disturbed. This self-acting and self-correcting functional dynamic, unseen by classical and non-classical science and lay alike, is a core functional principle in Sympathetic Vibratory Physics. Taking the metaphor of an undisturbed seesaw quietly sitting in a horizontal position we can see it will tend to re-level itself once disturbed. It will return to its horizontal position. Or a pendulum will come to rest (balance) is moved off center (disturbed out of rest or balance). Likewise we know a given volume of atmosphere is essentially in balance between dry hot expanding air and cold contracting moist air. When a cold wet front approaches a volume hot dry air the localized atmospheric system is then out of balance between the two volumes. The re-balancing occurs when the two volumes come together with the unseen desire²⁶ to re-balance themselves by one attempting to become the other. This seeming antagonistic action is what Walter Russell called Voiding²⁷. This voiding action can be gentle or it can be violent as a tornado depending on Time and polarity or bias difference between the two states or conditions. This desire to void or re-balance (to become *as one*) is born of sympathy and the nature of sympathetic associations where all unlike (seemingly opposite) participant forces or states desire to be alike (in balance or harmony). Hence we see throughout nature seeming opposite poles of electricity voiding against or through each other in a spark or load, opposite poles of a magnetic adhere as one and opposite sexes drawing together and assimilating each other.

²⁶[Desire]

²⁷[Voiding]

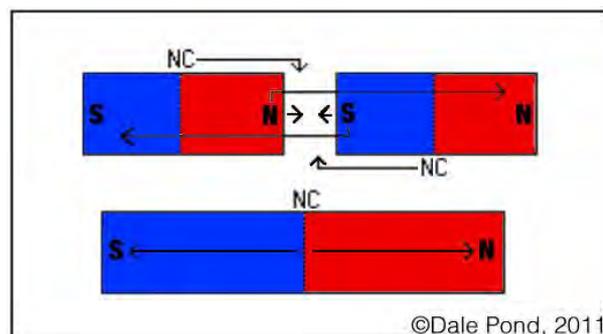


Figure 3.1: Opposite polar forces void/combine as One
 Image: http://pondscienceinstitute.on-rev.com/imagesNatDyn/bar_magnet1.jpg

After voiding (Keely's *neutralization*²⁸) or becoming depolar or neutral each pole or participant in the voiding action returns to its original state of unbalance or near so.²⁹ This return from depolar to polar is of course Time dependent.

3.2.4 The rate of acceleration of Sympathy is enormous

Sympathy exists between all centers. It is as an etheric connecting link³⁰ stronger and denser than hardened steel. Because transmission or propagation increases with density its rate of extension or propagation is enormous.

*“It is a law of falling bodies that they steadily increase their speed, so is it with this great power of sympathy when once it is started. Its rate of acceleration is enormous. A force that is once created can never be destroyed, and there is no force in all creation more real or more powerful than the force of sympathy. It may be stored up and hidden as energy is in fossil vegetable matter. It is a great created power, latent in the hand of the Creator, and at the command of the creature.”*³¹

²⁸[neutralization]

²⁹In Figure 3.1 ‘NC’ = [Neutral Center]

³⁰[connecting link]

³¹[David Sinclair], [A New Creed the book]

3.2.5 Sympathetic Associative Forces

“What modern cosmologists would have us believe was evolved by blind chance out of the inherent potentialities of primordial chaos, this glorious system of spiritual physics demonstrates as dependent upon the relationship between mind and matter; showing whence the initial impulse comes which sets in motion machinery of unimagined complexity, on given lines, toward a prescribed end. Chance, as has been said, is in no sense a force, but merely the sway of a balance of forces already in action. Sir Isaac Newton taught that there is such consistency in nature that what lies wholly beneath the region of visibility may be safely inferred to be similar to that which is gross enough to be palpable to sense; and Keely, reasoning on this line, has copied nature in his mechanical work. “I call this indefinable, latent element,” he writes, “the soul of the sympathetic elements in which it manifests, itself; and which until now has been locked up in their interstitial embrace. It is the leader of all triple streams, associated with the polar negative envelope of our planet and the one most sympathetically concordant to celestial radiation. In our individual organisms, the latent soul-forces, existing in the cerebral domain, are sympathetically subservient to the celestial radiating force whereby they are stimulated into action in controlling the movements of our bodies. Take away this latent element from the brain and the physical organism becomes an inert, dead mass; on the same order as a mechanical device without an energy to operate it.

“The polar negative machine is a mechanical brain, with all the adjuncts associated with it to sympathetically receive and distribute the polar negative force. Its sympathetic transmitter (corresponding to our sun in our planetary system, transmitting all energy from the central sun of the universe) is the medium whereby sympathetic concordance is established between it and polar sympathy. The requisites for polarizing and depolarizing keep up the action of the machine as long as it is associated with the transmitter. The force which operates the mechanical is the same as that which operates the physical brain; purely mental, emanating from celestial outreach. There is nothing in the range of philosophy which so satisfies the intellect as the comprehension of this wondrous system of sympathetic association, planned by the Creator of the celestial and terrestrial universe, for the government of all forms of matter.

“Nature cannot rebel against herself. The flowers of spring cannot resist the sympathetic force which calls them into bloom, any more than the latent force in intermolecular spaces can rebel and remain in neutral depths when sympathetic vibration calls it forth.

“What is the soul but life in latent suspension? The motion exhibited in matter shows that its soul is ever present; and yet there are men of great learning, as taught in the schools, who, after spending their lives in researching all forms of matter, deny that all living things depend on one everlasting Creator and Ruler, in whom they live and move and have their being through all time, as much as when He first breathed into them the breath of celestial radiation; and to whom they are as closely allied, still, by the workings of the great cosmical law of sympathetic association, as when the evolutionary work of creation commenced.

“The ancients were far better schooled in spiritual philosophy than are we of the present age. Their mythological records, in their symbolical meaning, prove this fact. They recognized this latent element as the very breath of the Almighty; the sympathetic outflow of the trinity of force, the triple spiritual essence of God Himself. Their conceptions of Deity were greater and truer than our own. From them we learn that when God said ‘Let there be light,’ He liberated the latent celestial element that illuminates the world: that when He breathed into man the breath of life, He impregnated him with that latent soul-element that made him a living and moving being.” ³²

3.2.6 Sympathy is Entanglement

When object A is in sympathy with object B, A is aware (responsive) of what happens to B and B is aware of what happens to A. As there is an innate or natural vibratory sympathy (sympathetic association of vibration and oscillation) between all things or objects all things and objects are aware (responsive) of all that is happening, everywhere and all the time regardless of Time and Space. This property or condition of sympathetic association has been called by many names throughout humanity’s long evolution: Entanglement, Omniscience, Coupling, God (and all its variations), non-locality, Mind, Love, Remote Viewing, Clairvoyance, Celestial Sympathetic Radia-

³²Keely from [The Veil Withdrawn]

tion, Brahma, Cosmic Consciousness, *etc.*³³

3.3 Sympathy defined

It is important to understand what sympathy is as it plays a tremendous and an all important role in how the universe and all it contains works. Sympathy is a state or condition that occurs between all centers and is an inherent property of these centers.

1 - ‘‘Where there is no sympathy there can be no love, for love is sympathy.’’³⁴

2 - noun: a relation of affinity or harmony between people or things; whatever affects one correspondingly affects the others.³⁵

3 - noun: In natural history, a propension of inanimate things to unite, or to act on each other. Thus we say, there is a sympathy between the lodestone and iron.³⁶

4 - Sympathy is a Force, as material as Sound, Light and Heat - ‘‘For the sake of being popularly understood, sympathy as a force is here, in a general sense, sometimes spoken of in a kind of figurative way as a message on the telegraph wire, *etc.* In a more particular way it will now be scientifically explained as a force, as material as sound, light and heat. We speak of the sun’s rays as if each ray were some simple element, and yet easily carry in our minds the fact that each ray is composed of light and heat; so this philosophy speaks of this ether as a mere lineal connecting-rod between the creature and Creator. If the analogy between the sun’s rays and the ether be closely followed, it will be seen that wisdom, truth, and sympathy are the same thing, and travel on the ether lines³⁷ exactly as light and heat do on the sun’s rays.’’³⁸

5 - Pertaining to or produced by sympathy.

³³[Dale Pond], 11/21/10

³⁴[Vera Vita the Philosophy of Sympathy]

³⁵[Sympathetic Vibration]

³⁶Webster’s 1828 Dictionary

³⁷[connecting link]

³⁸[David Sinclair], [Vera Vita the Philosophy of Sympathy]

6 - *“The mutual relation between parts more or less distant, whereby a change in the one has an effect upon the other.”*³⁹

7 - A real or supposed affinity between certain things, by virtue of which they are similarly or correspondingly affected by the same influence, affect or influence one another (especially in some hidden, unseen way), or attract or tend towards each other.

8 - A relation between two bodily organs or parts (or between two persons or things) such that disorder, or any condition, of the one induces a corresponding condition in the other.

9 - Agreement, accord, harmony, consonance, concord, agreement in qualities, likeness, conformity, correspondence.

10 - Conformity of feelings, inclinations, or temperament, which makes persons agreeable to each other; community of feelings; harmony of disposition.

11 - The quality or state of being affected by the condition of another with a feeling similar or corresponding to that of the other; the fact or capacity of entering into or sharing the feelings of another or others; fellow-feeling. Also, a feeling or frame of mind evoked by and responsive to some external influence.⁴⁰

12 - Sympathy, n.; pl. Sympathies. (F. sympathie, L. sympathia, Gr. ; with + suffering, passion, fr. , to suffer. See Syn-, and Pathos.)

13 - Feeling corresponding to that which another feels; the quality of being affected by the affection of another, with feelings correspondent in kind, if not in degree; fellow-feeling.

14 - An agreement of affections or inclinations, or a conformity of natural temperament, which causes persons to be pleased, or in accord, with one another; as, there is perfect sympathy between them.

³⁹Blakiston's New Gould Medical Dictionary. The Blakiston Company, 1949. 1st edition

⁴⁰(source unknown, underline added)

15 - Kindness of feeling toward one who suffers; pity; commiseration; compassion.

16 - (Physiol.) (a) The reciprocal influence exercised by the various organs or parts of the body on one another, as manifested in the transmission of a disease by unknown means from one organ to another quite remote, or in the influence exerted by a diseased condition of one part on another part or organ, as in the vomiting produced by a tumor of the brain. (b) That relation which exists between different persons by which one of them produces in the others a state or condition like that of himself. This is shown in the tendency to yawn which a person often feels on seeing another yawn, or the strong inclination to become hysteric experienced by many women on seeing another person suffering with hysteria.

17 - A tendency of inanimate things to unite, or to act on each other; as, the sympathy between the loadstone and iron.

18 - Similarity of function, use, office, or the like.

3.4 Recommended reading

[David Sinclair], [A New Creed the book]

[David Sinclair], [Vera Vita the Philosophy of Sympathy]

Chapter 4

Neutral Center

4.1 Neutral, Latent Neutral and Neutral Center

Scattered throughout the following pages are the terms “neutral”, “latent neutral” and “neutral center”. These are central concepts in SVP (Keely’s physics) and any study of polarity and its dynamics.

4.2 Neutral means

Neutral means: Where two phases from two vibrations are opposite in polarity and cancel each other out or “sum to zero” is called *phase conjugation* and is one form of neutral. Another form is the balance point between polarities much like a fulcrum under a seesaw. This balance point within a vibration or oscillation is neutral, depolar or potential. The power (potential) in both above cases of the phases or polarities has been equated and becomes latent thus establishing two poles and one neutral - a trinity of states of forces. There are other forms or associative dynamics constituting a neutral state or neutral center and will be discussed later.

*“When a force becomes neutral it is inactive, and is no longer a force; consequently the name given is misleading, Keely calls this third element the “latent neutral,” which is a better name for it.”*¹

¹Bloomfield-Moore [CJBM], [What Electricity Is - Bloomfield Moore]

Latent means depolar. The other two forces or states are polarized forces dynamic relative to each other. These are the Harmonic (syntropy) and Enharmonic (entropy). There exists a neutral state from which these two polar forces originate and to which they return. This neutral (depolar) state is "latent" or quiescent until stimulated (polarized).

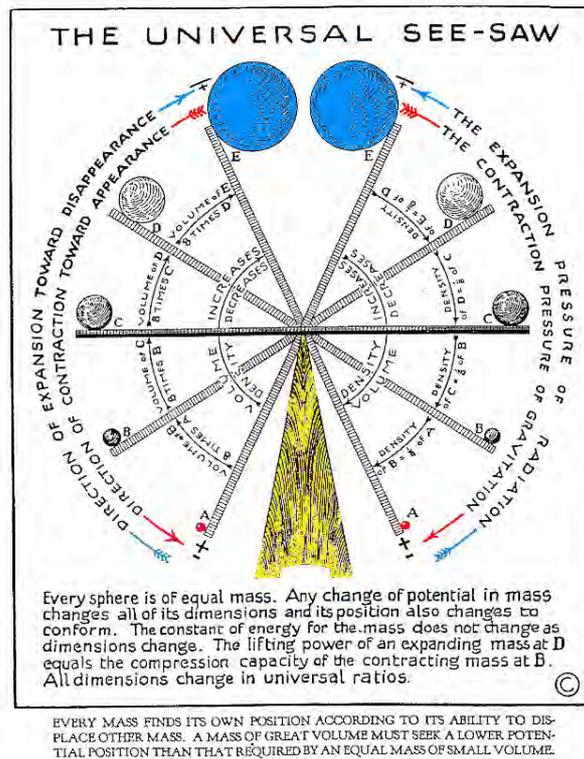


Figure 4.1: Universal Seesaw balancing seeming opposites
 Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/universal-seesaw.jpg>
 (courtesy University of Science and Philosophy)

A latent center is a center that has not been stimulated or excited. It is quiescent (depolar). Latent Forces are forces not stimulated (polarized) into motion or activity but held in stable (harmonic) balance. A scalar² force is a non-moving non-dynamic latent force or potential - not kinetic.

²[scalar]

In the above Russell image he uses the phrase “potential position” which is the same as Keely’s “level of tenuity”. Thus indicating it is the potential or tenuity of relative position that constitutes mass being a relative quantity. The fulcrum is the neutral balance point between two potentials or polarity, bias or bipolar polarities.

Neutral State or condition and Neutral Center are two different things or dynamics. A Neutral State is a condition independent of location. A Neutral Center is a location or foci, relatively speaking. A Neutral State has among other attributes Mutual Affinity between participating streams or conditions, sensitivity to appropriate stimuli, equated polarizations, point or state of equation. There are diverse orders, kinds or types of Neutral Centers. The two sides of the seesaw represent polarization. The fulcrum represents the neutral sustaining point, principle or condition where the polarizations meet by mutual affinity in mutual antagonism. “*All forces are Mind Forces*” meaning all forces originate from Undifferentiated Mind³ or the Compound Interetheric⁴ subdivision. As sections or segments of Undifferentiated Mind are polarized (differentiated) they become forces or energies. The Ultimate Differentiator is thought or idea. These polar forces become neutral or latent by removal of polarization (discords). Keely called this process “harmonization”.

4.3 Coordination or coincidence of forces

Consequently when and where various forces meet and cancel (void) or agree there is established a Neutral Center. Sometimes this point may be called a center of neutrality, center of attraction, center of sympathetic attraction, center of sympathetic coincidence, center of association and concentration, center of focalization, nucleal center, Prime Neutral Center and Supreme Neutral Center, depending on its general dynamical state. Some of the types of Neutral Centers are:

- mass - every mass of whatever substance or size has a neutral center.
- molecular - neutral centers in molecules.

³[Undifferentiated Mind]

⁴[Compound Interetheric]

- atomic - neutral centers in atoms.
- etheric neutral centers - neutral centers in quantum/etheric centralizations.
- Prime Neutral Centers - neutral centers that govern and enliven secondary centers not unlike the Sun (primary) and its planets (secondary).
- Supreme Neutral Center - The one Dominant Center that controls all other neutral centers.
- center of centers - an object may have more than one neutral center, this is the coordinated center between them all.
- focalized centers - centers can have more than one center. This idea is what we see in a circle (one foci) and an ellipse (two foci). A focalized center is where all these centers are coincident or focalized together as one center.
- sympathetic concordant focalized neutral center - a focalized center that is concordant (in harmony of parts) that is sympathetic to something else, usually an outside stimulant or exciter or other center(s).
- focalized negative attractive centers - A focalized neutral center that is in the syntropic phase of assimilation, attraction or concentration. It's opposite would be a dispersing positive propulsive center (radiating or radiant). See [Law of Assimilation].
- centers of sympathetic coincidence - A dynamic center where forces that are sympathetic to each other coincide.
- centers of neutrality - a neutral center that is in a quiescent state of neutral latency.
- centers of focalization - centers where forces are mutually attracted or focused to interact.
- centers of distribution - centers where forces are mutually repelled and dispersed.

Centers are intermittently attractive and repulsive or dispersive. When a Neutral Center is disturbed it becomes intermittently attractive and repulsive. When attractive it becomes a center of focalization. When repulsive it becomes a center of propulsion or dispersion. In between one state and its opposite is a moment of pause not unlike the furthest point in the swing of a pendulum or seesaw. This null point or fulcrum can endure both polarities without itself being affected.⁵

The Neutral Centers give birth to quantum centralizations Keely called atomoles. The Neutral Centers are then the cause that give rise to their effects - these atomoles - and are synchronistic meaning “can’t have one without the other’ (the chicken and egg riddle). On the other hand Keely and Russell both said there is an infinite number of Neutral Centers implying there is an infinitely small space between these centers which makes the universe quite dense (986,000 denser than steel⁶) and births the logical idea matter is more of a tenuous ‘bubble’ in this dense etheric substratum than the way ego sees matter as more dense than seeming vacuity.

Matter evolves from vacuity of space

“*Pure sympathetic concordants are as antagonistic to negative discordants as the negative is to the positive; but the vast volume the sympathetic holds over the non-sympathetic, in ethereal space, makes it at once the ruling medium and re-adjuster of all opposing conditions if properly brought to bear upon them.*” Again Russell and Keely concur on the origin of matter. Sympathetic streams aggregate at a neutral center about which forms centralized motions; *i.e.*, form or appearance of matter. Non-sympathetic conditions are discordant and dispersive resulting in the appearance of seeming empty space. Solidity devolves towards vacuity through the action of non-sympathetic (discordant) conditions; *i.e.*, entropy. Outer space is the domain of the non-sympathetic or dispersed matter.

In one of many ways Russell describes the dual nature of space (cube) and matter (sphere) he says this about that dynamic state: “*The sphere is the*

⁵See [Philosophers Stone]

⁶[Law of Matter and Force]

result of the concentrative pulsation of Gods thinking which pulls inward from within (syntropy) to focus the light of Gods thinking to a point of stillness, around which a thought body (form or matter) can be formed. This causes that universal effect, which we know as gravitation, and the still point of concentration is a center of gravity. GRAVITATION MULTIPLIES POWER. [See ([Neutral Center])

“The cube is the result of the decentrative pulsation of Gods thinking which thrusts outward (entropy) from within to the stillness of the cube boundaries to produce the opposite effect which we know as radiation. RADIATION DIVIDES POWER.

“Gravitation and radiation are the opposite ends of the piston which motivates the heartbeat of this eternally living dual body of God, which is our dual body. Its continual giving and regiving⁷ manifests the love principle⁸ in both the action and reaction not just in one of them.”⁹

4.4 Neutral Center

Neutral Center = Dominant = Fulcrum = Pure (Undifferentiated) Consciousness = Love = 0 (Russell) = First Cause. There are neutral centers on all seven subdivisions of matter and energy. These Neutral Centers possess differing states; *i.e.*, properties, functions and geometries.¹⁰

We do not yet know all the properties of the neutral center but Keely does list a few of them. Keely considered his discovery of the Neutral Center to be one of his greatest discoveries as also its control through machinery. Our rediscovery of it will be one of humanity’s greatest achievements. Keely’s description of the neutral center follows:

“Every molecule, every mass, every moving body in space, every solar system, every stellar system, EVERY ROTATORY SYSTEM, is built about a

⁷[Giving-Regiving]

⁸[Law of Sympathetic Association]

⁹Russell, Home Study Course, GOD CREATED ONLY ONE FORM; see [Cube Sphere]

¹⁰[Barycenter], [Center], [Center of Gravity], [Center of Mass], [Sympathetic Coincidence], [MINERAL DISINTEGRATION - Snell]

NEUTRAL CENTER.”¹¹

*“The neutral center represents only focalization and distribution of the streams of energy.”*¹²

Thus there are discrete mass, molecular, atomic and etheric neutral centers as well as Prime Neutral Centers, “center of centers”, “focalized centers”, “sympathetic concordant focalized neutral center”, “focalized negative attractive centers”, “centers of sympathetic coincidence”, “centers of neutrality” and “centers of focalization”, thus defining its state depending on dynamical function, location, association, etc.

*“The neutral center is that protean, uncreated, indestructible, forever-existing FIRST CAUSE¹³. Without hands, without tools, without thought, without emotion, without love, without form, without substance, it, of itself, created all these. All that we see or can see in the objective Universe exists because of and by means of the properties and powers of the NEUTRAL CENTER.”*¹⁴¹⁵

*“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’.”*¹⁶

4.4.1 Disturbance of Equilibrium

This is why a meditative state (neutral or undifferentiated) of mind is important (sympathetic) to “knowing” these interlaced concepts. Because they are All One. To be it is to know it. The thinking ego or intellect is differentiated conscious and is highly discordant which is to say it destroys harmony as is present in the meditative or quiet mind. This does not make the intellect thinking an enemy - it is simply discordant, a disturber of the harmony. This

¹¹[Keely]

¹²[ROTATION - Snell]

¹³[First Cause]

¹⁴[Keely]

¹⁵[First Cause]

¹⁶[KEELYS PHYSICAL PHILOSOPHY - Snell]

discordance is the Infinite Exciter¹⁷ “*that moulds and makes*”¹⁸ something from seeming nothing thus making humanity as a Creator. We use our crystal clear thinking and focus to create the lives we live. As neutral states are pure unmanifested potential (latent) in perfect harmony it is from where and whence all manifestation of form originates - “*from harmony is generated discord*”¹⁹. These manifestations become reality when the neutral state is disturbed. This disturbance of equilibrium^{20 21} is a key function in SVP.

Logically, if all three forces are modulated the same degree at the same time there would be imbalance in the equation. Disturbance of equilibrium means the three forces, in an established triune or three-way equilibrium, are thrown out of balance or equation by changing one or two of the three so the equation of harmony becomes one of discord; *i.e.*, thrown into motion which then seeks to re-establish the originating harmony or balance. For instance, this principle is active in spiritual seekers as they are all seeking to return to the original Peace and Harmony with the One (wake up or self realization. Such a disturbance in a molecule being intermittent will cause the molecule to deform in its motions into activity then recede back to its original quiescent state.

The Neutral Center is a point or center of sympathetic coincidence. It has many properties. The creation and perpetuation of the Neutral Center is predicated on the inflow of what some call God/Divine Force (Divine Will or sympathetic celestial streams) or as Keely called it *Celestial Sympathetic Radiation*²² originating from the Supreme Neutral Center, establishing its progressive evolution, as it were, and through the Principle of Regeneration²³ is radiated outward as refracted or differentiated materiality via the Law of Harmonic Pitch²⁴, Law of Harmonic Vibrations²⁵, and Law of Cycles²⁶. This process is in other words a ubiquitous (everywhere in all Time and Space) or

¹⁷[Infinite Exciter]

¹⁸[As a Man Thinketh]

¹⁹[8.23 - Law of Cycles]

²⁰[disturbance of equilibrium]

²¹see [7.26 Disturbance of Equilibrium]

²²[Celestial Sympathetic Radiation]

²³[Principle of Regeneration]

²⁴[Law of Harmonic Pitch]

²⁵[Law of Harmonic Vibrations]

²⁶[Law of Cycles]

non-local “Micro Bang” (syntropic implosion/cavitation) process that then radiates and eventually manifests as what we perceive as matter, *etc.* In a word, the Neutral Center is a Compound Interetheric sympathetic force or state of Undifferentiated Mind (scalar). Therefore it is this inflow of the Divine Will (sympathetic celestial streams, Mind Force) as CAUSE of materiality; I feel this needs to be clearly stated. See Figure 12.8 for an animated graphic showing this spontaneous generation or production of discords that breaks down into dispersion the formative harmony.

4.4.2 Supreme Neutral Center

The Compound Interetheric (Undifferentiated Mind) is outside of Time and Space and is unaffected by either. So one could rightly say the Supreme Neutral Center has always existed and always will exist even though it only exists in the NOW moment like everything else. The physical universe is as a Thought in this Undifferentiated Mind. Thoughts are polar. Expression is polar. Manifestation is polar. All materiality is polar. Non-materiality is depolar (neutral) in relation to materiality. Hence all polar conditions emanate from depolar or neutral latency until stimulated into being by desire, idea or thought.

The egoic intellect creates the ideas of Time and Space. As time is an illusion, a creation of our polar egos, it has not relevance to actuality. There never was a “time” prior to the creation of the “universe”. For lack of a better expression the universe has always existed and had no beginning because if time is an illusion then it might be said there never was a past and there is no future. There is only Now. Our fractured egos cannot Know the Undifferentiated Mind Knowing (God’s knowing). The countless attempts to anthropomorphize ‘creation’ and ‘God’, *etc.* are doomed as feeble attempts at rearranging dream elements (fabrications of the ego). Only our whole undifferentiated minds (Cosmic Consciousness) can know these infinite things, states or conditions which cannot be adequately expressed through finite intellectualism. The Mind of Deity²⁷ is cause while the universe is the effect of that Cause. A cause and its effects cannot be separated. The connecting link is the etheric domain. As Cause is Undifferentiated Mind then all its effects are polarized (split) mind thinking.

²⁷[Mind of God]

Keely indicated there is a single Supreme Prime Neutral Center governing all other neutral centers whether mass, molecular, atomic or etheric regardless of location. Prime Neutral Centers are as the Sun (prime) to its planets (secondaries). As neutral centers are effects as well as cause this Supreme Neutral Center is Dominant and an integral of all neutral centers - they are all one and the same in substance and dynamic with the exception One is sum and source of all others. Russell referred to it as the Universal One²⁸ from which all else originated. The intellect wants to separate every thing into parts. The universe is one whole acting through what appears to be individuated parts. All the parts are governed by one Supreme Neutral Center, each manifesting as though individual. There is one supreme state of neutrality that permeates every thing. This omnipresent state or condition of Neutrality is perfect concordance or Sympathy (Love) and everywhere present in all things and actions - the Universal One.

Outflow and Inflow

Each Neutral Center has an intermittent outflow and an inflow of sympathetic streams originating from the Supreme Neutral Center redirected from the Prime Neutral Center. These occur according to Russell's Rhythmic Balanced Interchange²⁹ and Macvicar's Law of Assimilation³⁰.

There is an outflow: *“..communicates direct by means of its outflow of sympathy, with every planetary mass in the Universe.”*

There is an inflow: *“Through its inflow of sympathy, through the solar intermediate, the sun, it receives the life flow from the Supreme Neutral Center..”*

²⁸[The Universal One]

²⁹[Rhythmic Balanced Interchange]

³⁰[Law of Assimilation]

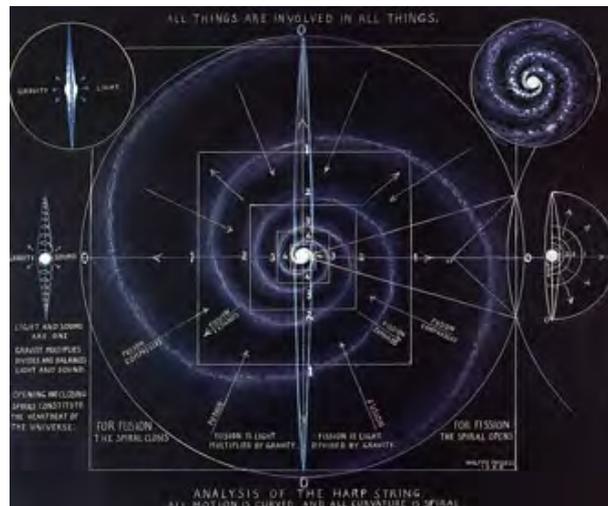


Figure 4.2: From the One comes the many

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/russell-neutral-center2-300.jpg>
(courtesy University of Science and Philosophy)

4.4.3 Keely further describes the Neutral Centers

*“All the Dominant conditions of nature represent the focal centers towards which like surrounding ones become sympathetically subservient.”*³¹

The dominant condition of nature is harmony or Sympathy (Love). This harmonic or attractive state has a field of influence (sympathetic outreach) which casts its influence or its controlling effects as a modulation of everything in its reach (its Sympathetic Outreach³²). Other surrounding Neutral Centers which can be few or countless depending on the chord of the Dominant Neutral Center fall under this influence. Sympathy extends as a state or condition of forces. This extension has harmonizing effects and will modulate any other chord to, in some degree, resemble this originating chord of harmony. This is what and how people “feel” energy around the Dynaspheres. The calming or harmonizing power is extended by sympathetic vibrations and/or oscillations (quantum entanglement) on the sixth and seventh subdivisions. This power and dynamic has been anthropomorphized throughout

³¹[Keely and His Discoveries], pg 179

³²[Sympathetic Outreach]

history as the “Love of God”³³. This dynamic is described in Keely’s

4.4.4 Law of Transmissive Vibratic Energy

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

Scholium: *“All forms of transmissive energy can be focussed, reflected, refracted, diffracted, transformed, and diminished in intensity inversely as the square of the distance from the originating source.”*

Which law and its dynamics sets the stage for:

*“Neutral centers are the focalized seat of sympathetic concordance for controlling any differentiation that may exist outside, or in the mass that surrounds them.”*³⁴

Every individual “thing” has its own chord of mass. Apparently no two chords of mass are identical. A chord of mass will have numerous frequencies within itself resulting from its own chordal evolutions (overtone series) and as modulated from countless outside FM and AM modulations (summation and difference tones). It is these modulations that cause differentiations³⁵. They are the differentiations. One center will control all the neighboring neutral centers being as it is or becomes the Dominant Center. Centers are not entirely individuated in their existence because they are ultimately controlled or governed by sympathetic streams, concurrently arriving to each, from the Supreme Neutral Center which created them and in which they have their being or existence perpetuated.

*“Neutral centers are the center of Sympathetic Coincidence.”*³⁶

Which dynamic and conditions establishes Sympathy as being the controlling state or condition over everything in its reach or field of influence.

³³Law of Sympathetic Association]

³⁴[Keely and His Discoveries], pg 255

³⁵[Differentiation]

³⁶[Keely and His Discoveries], pg 220

“Pure sympathetic concordants are as antagonistic to negative discordants as the negative is to the positive; but the vast volume the sympathetic holds over the non-sympathetic, in ethereal space, makes it at once the ruling medium and readjuster of all opposing conditions if properly brought to bear upon them.”³⁷

“The effects of the law of sympathetic association, which Mr. Keely demonstrated as the governing medium of the universe, find illustrations in inanimate nature.”³⁸

“A center of introductory action is necessary in all operations of Nature. All structures require a foundation. This neutral center is the foundation.

“Every molecule, every mass, every moving body in space, every solar system, every stellar system, EVERY ROTATORY SYSTEM, is built about a NEUTRAL CENTER. It is the indestructible unit around which all that we recognize as matter is built. Immovable itself, it moves all things. Indestructible itself throughout infinity of time, it creates all things. It produced and preserves the incalculable energy of motion of the entire Universe. It bears the unthinkable burden of the mass of the Universe. It is the most wonderful thing Man has discovered in the Universe since he discovered fire.

“If we should take a planet of say 20,000 miles diameter and should displace a portion of the interior so as to have a crust of say 5,000 miles thickness, and at the center of the planet, place a billiard ball, that small mass, immeasurably smaller than the bulk of the earth, would bear the entire burden of the mass of the crust 5,000 miles thick and would keep it equidistant from itself. No power, however great, could possibly displace this central mass so as to bring it into contact with the crust. Furthermore, to move this central mass in any direction, would require a force sufficient to move the entire mass of the planet, and in propagating or continuing any such motion the neutral center, this billiard ball, will at all time periods remain still in the exact center, bearing the same equidistant relation to its hollow shell. The mind staggers in contemplating the burden borne by this neutral center, where weight ceases.

³⁷[Keely, Chapter 7 of Keely and His Discoveries]

³⁸[Bloomfield-Moore, Keely and His Discoveries]

“No less wonderful are other properties of the neutral center.

“It is the cause of the physical Universe. Its attraction condensed that which we recognize as substance. Matter was evolved from the affinity of this neutral center for Sympathetic Streams and since it is immovable, it caused, through negative attraction the formation of nodes in these streams, where the vibrations thereafter continued to meet in a center of Sympathetic Coincidence causing the permanence of form and matter.

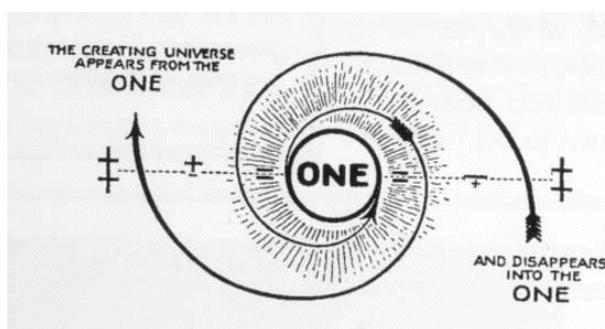


Figure 4.3: Coincidental forces meet at center

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/syntropy-entropy-meet.gif>
(courtesy University of Science and Philosophy)

“Every nebula, an embryonic world, is acted upon, created and preserved by this neutral center, and at the termination of its cycle, it is ultimately also destroyed by it, causing its absorption into the Unknown from whence it came.”

Every molecule and atom disintegrates into its constituent components and disperses into the vacuity of space - seeking their density coincident or ‘level of tenuity’ (of density). If they all be depolarized they lose their form and dynamics. They become as ‘nothing’; *i.e.*, no ‘thing’. Polarity gives form and motion. Depolarity (neutrality) has no form or motion. All form evolves from the vacuity of space (dispersed matter). Neutral Centers do not of themselves exist as a ‘thing’. They are dimensionless points of the confluence of forces. How can neutrality have dimension if it has no form? But it does have function not unlike Mind or Consciousness itself.

This latent sympathetic plenum (sympathy) throughout the universe gives rise to all form and motion when disturbed, stimulated or excited. A thought or desire excites this neutrality into a polar condition or state. Polarity causes motion and motion appears as form. Wherever forces synchronize or equate there is established an activated neutral center about which 'matter' may aggregate creating form.



Figure 4.4: Neutral Center - creator of nebula and galaxies

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/ringnebula.jpg>

“The actual neutral center of the earth is, in fact, even infinitely smaller than the billiard ball referred to above. It consists of a compound interetheric point in space, so small that were we to magnify a pin head to the size of the sun, and from that substance take a particle of matter the same size, again magnifying it to the size of the sun, the neutral center would still be invisible, even though the structure of this last substance was examined through the highest powered microscope ever created, or to be created. For the neutral center is INDIVISIBLE³⁹. Its attributes do not belong to matter, and pertain in no way to matter, which is but its exterior manifestation.⁴⁰”

³⁹How can neutrality (Undifferentiated Mind) have dimension? One cannot divide zero.

⁴⁰[FORM OF THE ATOM]

“Every aggregate mass consists of molecules, each of which has its neutral center where the three modes of vibration, dominant, harmonic, and enharmonic, meet in a center of Sympathetic Coincidence and are equated without cancellation of their energy.”⁴¹

“Neutral centers are the focalized seat of sympathetic concordance.”

“The proof of this assumption is that all matter responded to Keely’s disintegration process⁴² and must therefore consist of these fundamental modes of vibration.”



Figure 4.5: Keely’s Compound Disintegrator

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/compound-disintegrator.jpg>

The above Compound Disintegrator,⁴³⁴⁴ later called Liberator⁴⁵, is pre-

⁴¹[Scalar]

⁴²disintegrator picture gallery: <http://www.svpvril.com/DisPix/Disin1.html>

⁴³[Compound Disintegrator], [Disintegrator]

⁴⁴more photos <http://www.svpvril.com/DisPix/Disin1.html>

⁴⁵[Liberator]

sumed to be one of the devices Keely used to progressively dissociate or disintegrate water into etheric vapor (plasma). In modern terms this device would be not unlike a multi-frequency “analog signal generator” in function. See section 7.21 Latent Force. The term ‘Liberator’ describes its function of liberating the Latent Force held within the confines of the rotating etheric envelopes of the atom. See section 12.12 Etheric Envelopes. In the photo below we see the Liberator connected to the pressure lever for measuring pressure of the liberated etheric vapor⁴⁶.

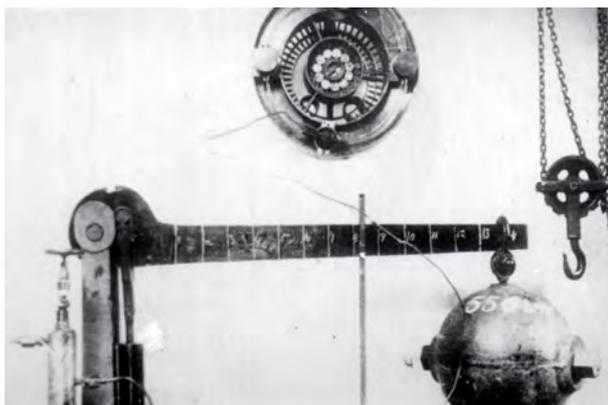


Figure 4.6: Liberating and measuring Etheric Vapor pressures
Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/liberating-pressure.jpg>

⁴⁶[etheric vapor], [Ether Generator Producing High Pressures]

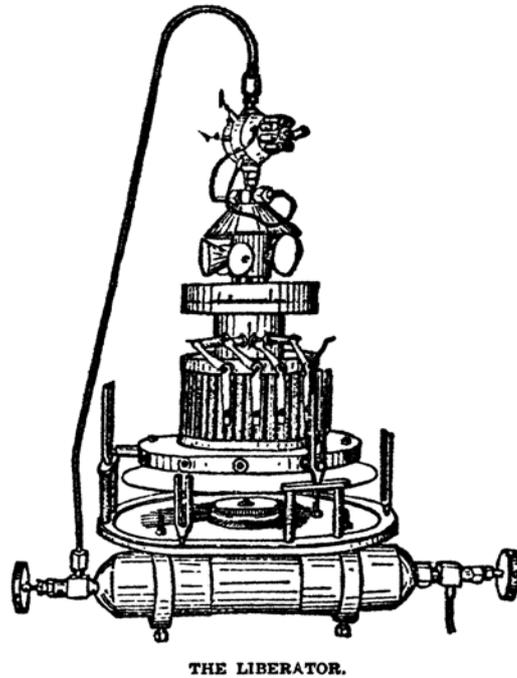


Figure 4.7: An earlier Liberator design

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/liberator1.jpg>

4.5 Divine Will - The Wheelwork Source of all Force

“The fixed neutral center of the earth is the concentration or totalized power of all the several molecular neutral centers in the earth’s mass. This neutral center, which is absolutely WITHOUT WEIGHT, an interetheric point in space, communicates direct by means of its outflow of sympathy, with every planetary mass in the Universe. Through its inflow of sympathy, through the solar intermediate, the sun, it receives the life flow from the Supreme Neutral Center that enables it to perpetuate its existence. Thus through the outflow from this Supreme Neutral Center that pivoting point of the Universe controls the existence and motion of not only every stellar, solar and planetary mass in space, but also the rotatory vibration, in every individual molecule,

4.5. DIVINE WILL - THE WHEELWORK SOURCE OF ALL FORCE 71

intermolecule, etc. through all the subdivisions of matter, thereby sustaining their existence and motion with the life flow.

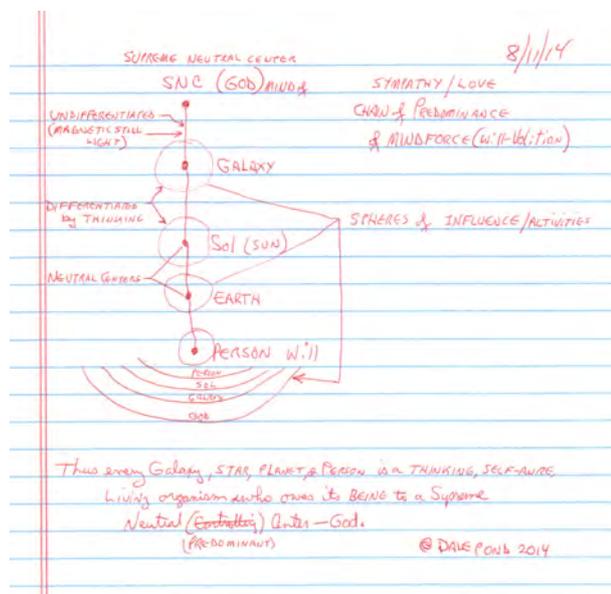


Figure 4.8: Sympathy Links all Centers to all other Centers
Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/universal-oneness.jpg>

“All foundations must be sufficient to bear their burden. Conceive then the Universe centered upon and resting the burden of its incalculable mass and kinetic energy on a vacuous interetheric point in space, so minute that it is actually **INDIVISIBLE**. This conception can only be fully comprehended by an infinite mind. Independent of time, because indestructible in its unity, independent in space, because through its properties space itself exists and without it would not exist, independent of matter because its properties in an external direction created all that we know as matter and gave it seeming permanence, the neutral center is that protean, uncreated, indestructible, forever-existing **FIRST CAUSE**. Without hands, without tools, without thought, without emotion, without love, without form, without substance, it, of itself, created all these. All that we see or can see in the objective Universe exists because of and by means of the properties and powers of the **NEUTRAL CENTER**.⁴⁷

⁴⁷[God]

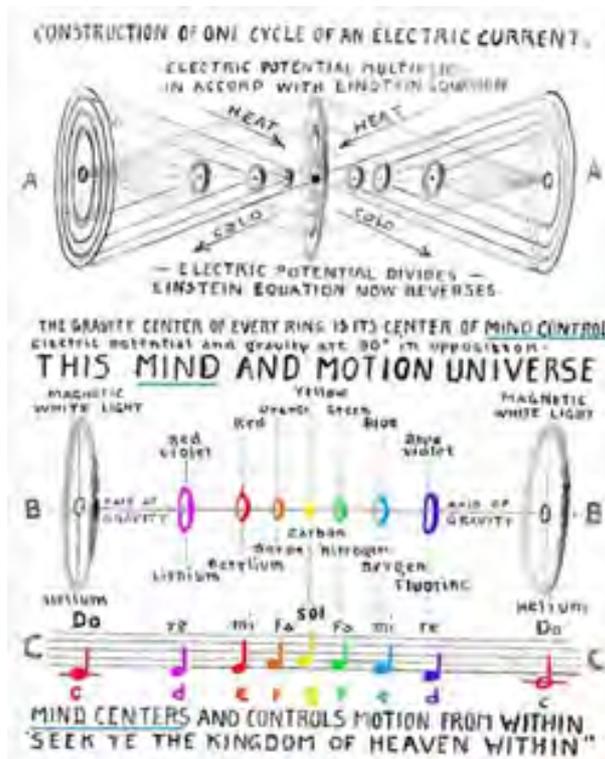


Figure 4.9: Neutral Center is Mind or Consciousness of God
 Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/mind-motion400.jpg>
 (courtesy University of Science and Philosophy)

“No machine heretofore constructed has been made with a neutral center. This conception of mechanics has never before dawned on man’s thought field. Had this been done, perpetual motion⁴⁸ would have become a demonstrated fact. Were a machine so constructed as to use its properties, an introductory impulse⁴⁹ would suffice to run it for centuries. However, this would not be a useful mechanical contrivance for no more energy could be obtained from it than was originally given, and its only value would be as a timekeeper.⁵⁰”

“Keely did not seek to invent, nor did he claim to have invented, perpet-

⁴⁸[Perpetual Motion], [Continuous Motion]

⁴⁹[Introductory Impulse]

⁵⁰[Continuous Motion]

4.5. DIVINE WILL - THE WHEELWORK SOURCE OF ALL FORCE 73

ual motion.

“The physicist tells you that “you cannot make something out of nothing;” that “in the economy of nature profit and loss must balance;” that “no matter what the nature of the force may be, its production must necessarily be accompanied by a corresponding expenditure of force in some form or other,” etc., etc. But, in the prodigality of nature, this energy flows, without measure and without price, from the great storehouse of the Infinite Will. 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.”⁵¹

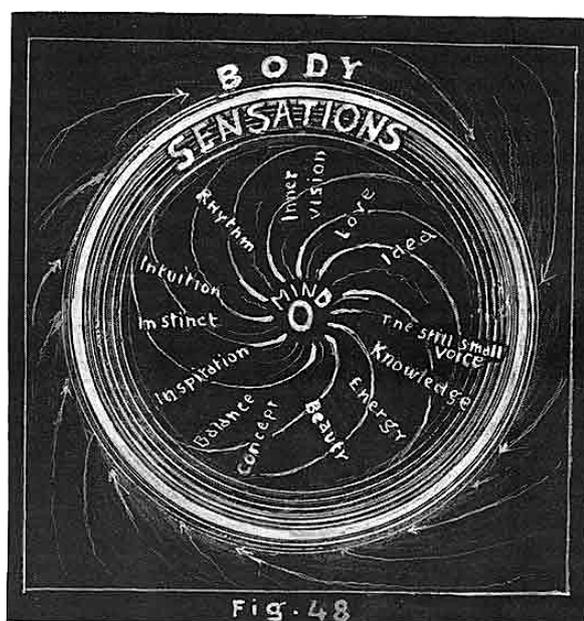


Fig. 48
A MIND-CENTERED THOUGHT-RING OF MOTION

Figure 4.10: Neutral Center is as mind or consciousness
Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/ring-of-motion.jpg>
(courtesy University of Science and Philosophy)

“When this great scientific and religious truth has been made known, and established by demonstration, all controversy as to the source of energy will

⁵¹Bloomfield-Moore ([CJBM]) in [Vibratory Sympathetic and Polar Flows]

*be for ever silenced. If I am the chosen instrument to develop this knowledge, and to make known the conditions which surround this pure truth, it is only that I may hand the key to those who will use it to enter the doorway that opens into the inaudible, and thus gain an insight into the now invisible region of the operation of Nature's most powerful governing forces, in the control over terrestrial matter by celestial mind."*⁵²

4.5.1 Center of Sympathetic Attraction

*"I find that there is no medium in the range of vibratory philosophic research, that is as unerringly exact, towards the center of sympathetic attraction, as the negative attractive influence of a certain triple association of the metallic masses of gold, silver and platina"⁵³. In fact, they are as accurate indicators of the earth's terrestrial sympathetic envelope, and its triple focalized action towards the earth's neutral center, as the magnet is an indicator of the diversion of the attractive flow of the dominant current of the electric stream. Although much has been written on the subject, the conditions attending the continuous flow of the magnet remains a problem that has never been solved by any other theory. Yet the solution is very simple when harmonic vibratory influence is brought to bear upon it."*⁵⁴

4.5.2 Center of Sympathetic Coincidence

*"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"."*⁵⁵

4.5.3 Center of Association and Concentration

A shared point, point of convergence or center of sympathetic coincidence (Neutral Center) or where syntropic forces meet, coincide, centralize or come together or harmonize.

⁵²[Keely] in [Keely and His Discoveries] pg. 365-367

⁵³[Trexar], [Trextrinar]

⁵⁴[Keely], [ANSWERS MADE IN LETTERS FROM MR. KEELY - TO QUESTIONS ASKED OF HIM]

⁵⁵[KEELYS PHYSICAL PHILOSOPHY - Snell]

4.5.4 Center of Focalization and Transformation

In the following quote we see the evolution or creation of perceptible light when thought (imperceptible) is directed to a center, undergoes transformation via Law of Cycles, then is manifest as perceptible light.

“Light is induced by electromagnetic percussion emanating from the ether, and in its action represents the plane of magnetism. In fact, it is the plane of magnetism when under polarization. (Platina wires the thickness of a fine hair associated with each of the nine nodal beads, and concentrated towards a general center of focalization, attaching the other end of the wires to the focal center, will determine, by the magnetic conduction, the number of corpuscular oscillations per second induced by a thought⁵⁶, 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.”⁵⁷

4.5.5 Nuclear Center

Term used by Russell to denote the point in a wave of maximum polar opposition or the 4++⁵⁸ state of polar opposition and when depolar as the Plane of Inertia⁵⁹. Also understood to be the same as Keely’s Neutral Center where Keely mentions ‘antagonism’⁶⁰, etc.

In between one state and its opposite is a moment of pause not unlike the furthest point in the swing of a pendulum or seesaw. This null point or fulcrum can endure both polarities without itself being affected. See [Philosopher’s Stone] There are in actuality two fulcrum points or points of transformation. The first is the 4++ center position where opposing polarities seek to Void

⁵⁶[Thought Force]

⁵⁷[Keely], [Snell Manuscript - the book], [ELECTROMAGNETIC RADIATION - Snell]

⁵⁸[4plusplus]

⁵⁹[Plane of Inertia]

⁶⁰[antagonism]

at maximum opposition. The other fulcrum or transformation point is what Russell called the Plane of Inertia where polarities are at their least opposition. The sympathetic streams wind or spiral towards the center of 4++ and unwind spiraling away from that center to the six Planes of Inertia.

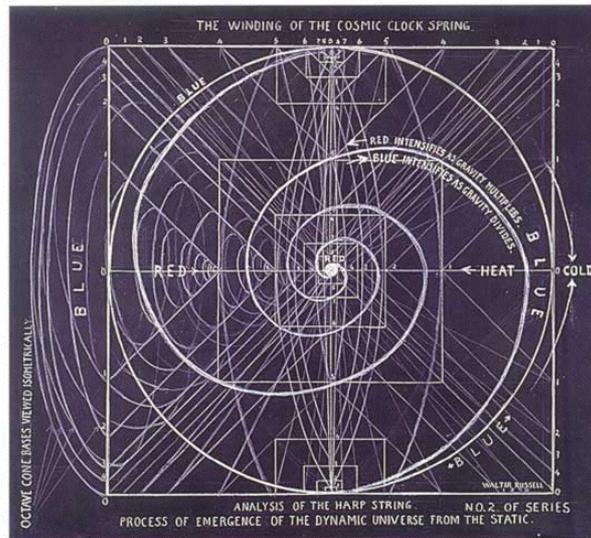


Figure 4.11: Syntropy winding up force to 4++ center
 Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/67-Winding.GIF>
 (courtesy University of Science and Philosophy)

4.5. DIVINE WILL - THE WHEELWORK SOURCE OF ALL FORCE 77

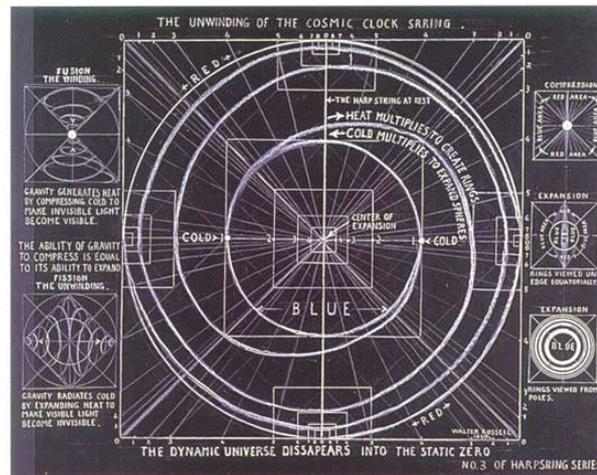


Figure 4.12: Entropy unwinding energy to 0 Plane of Inertia
Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/68-unwinding.gif>
(courtesy University of Science and Philosophy)

4.5.6 Resistance

Resistance in DC circuits is equivalent to impedance in AC circuits. It is quite clear the concepts of resistance in the writings of Keely and Russell are more akin to AC impedance than DC resistance (as commonly understood). Resistance or antagonism is the presence of discords. As two poles harmonically accumulate force through mutual syntropic assimilation and at the 4++ point of convergence resistance or antagonism is created ultimately resulting in activating the Law of Cycles by way of run-away development of discords.⁶¹ These discords multiply in number and accumulate power until the unifying harmonic forces revert from harmonic assimilation to enharmonic dispersion. No doubt this dynamic is the cause of implosion and cavitation processes and activities.

⁶¹[overtone series]

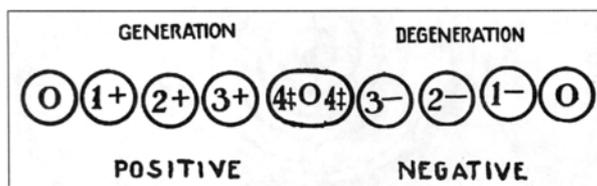


Fig. 68
Two-way journey from zero—through zero—to zero

Figure 4.13: Russell's 4 plus plus center of polar opposition

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/4plusplus2.jpg>
(courtesy University of Science and Philosophy)

About resistance Keely says: “..In crystalline structures, heat, which expands the atoms, by twisting them produces striae⁶², increases the resistance, etc.”⁶³

⁶²[striae]

⁶³Keely, [Law of Vibrating Atomolic Substances]

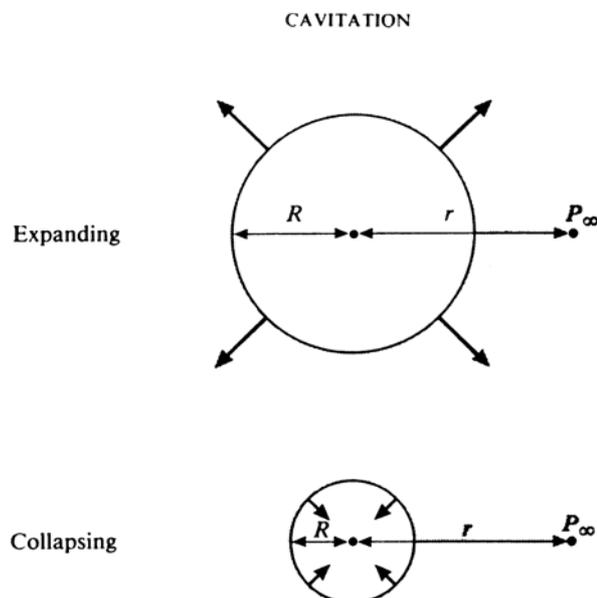


Figure 4.14: Cavitation is an example of the Law of Cycles
 Image: http://pondscienceinstitute.on-rev.com/imagesNatDyn/Cavitation_Bubbles.jpg
 (courtesy University of Science and Philosophy)

Keely continues: *“The electric current destroys cohesion and chemical tension directly as square of current in amperes, inversely as the resistance in ohms, inversely as the chemical equivalent, and conversely as the coefficient of the difference between the freezing and volatilizing temperature of mass acted upon.”*⁶⁴

Russell describing the opposing spirals: *“Positive electricity pulls inward spirally from within against the opposing resistance of negative electricity which thrusts outward spirally from within.”*⁶⁵

Russel continues: *“In this electric universe, sensation is the strain of resistance to the separation which exists between all separated masses. All matter is one. Separated particles desire to find that oneness.”*⁶⁶

⁶⁴Keely, [Law of Variation of Atomic Oscillation by Electricity]

⁶⁵Russell, [The Secret of Light], page 148

⁶⁶Russell, [The Secret of Light], page 85-86

4.5.7 Prime Neutral Center

Prime Neutral Centers are primary centers about which other subservient secondary neutral centers are attracted and aggregate. In the quote below these Prime Neutral Centers are the neutral centers as stars or suns about which aggregate the secondary neutral centers of their planets. Hence they, the neutral centers are the source of gravity.

“The luminous, etheric, protoplasmic element, which is the highest condition⁶⁷ of the ether, fills the regions of infinite space, and in its radiating outreach⁶⁸ gives birth to the prime neutral centers that carry the planetary worlds through their ranges of motion.”⁶⁹

The actions of Neutral Centers (almost) dictates the existence of rotating shells surrounding centralizing (gravitic) neutral centers. This not unlike so-called electron shells. Hence if every thing or mass has a neutral center and all neutral centers behave according to the same laws then planets would by those same laws (almost) have to be hollow. If it walks like a duck and quacks like a duck then it is a duck. I’m not saying they are but logic points to such a conclusion.

It is not physicality that causes negative attraction but the activated neutral centers that cause negative attraction. It is an illusion of the physical to ascribe causative properties to it when it is in fact nothing more than an effect of the cause - neutral center activity. The neutral centers formed the instant Divine self awareness occurred. It was all created in an instant of no duration and continues to recreate itself as it evolves. *The human intellect has a hard time with the concept of no time.*⁷⁰

4.5.8 Supreme Neutral Center

Every molecule, atom and sub-quantum centralization everywhere existent within the universe has a Neutral Center. All of these neutral centers are sympathetic each to (entangled with or ‘as one’ with) all others. What keeps

⁶⁷[Interetheric]

⁶⁸[outreach]

⁶⁹[Keely], [Keely and His Discoveries] pg 270

⁷⁰[Time]

all these Neutral Centers “in order” (having one shared state) is subservience to One Supreme Neutral Center of the universe. Some would call this One Supreme Neutral Center, God. Taking out the egocentric anthropomorphic⁷¹ assignments we then have an Intelligence (Consciousness) intimately associated with (in sympathy or entangled with) everything that is. The connecting link⁷² between all these centers is Compound Interetheric sympathy which Keely said above ‘*fills the regions of infinite space*’. These ubiquitous Neutral Centers constitute a state of perfect continuity and living extensions of the One that through progressive evolution⁷³ or devolution as the case may be manifest as seeming solid matter in all its motions and activities which motion is Life.⁷⁴

It is the nature of neutrality as Undifferentiated Mind Force that fills every thing everywhere. This Undifferentiated Mind Force is everywhere present as ”Sympathy” within which, as motion (form), is latent. Being of infinite density and extenuation (although not having dimension) it is ubiquitous and reactive to and action upon every neutral center everywhere without itself being changed. See [Philosophers Stone]. It is the Supreme Prime Neutral state or condition (Cause) governing all else, manifested or not. The state of Neutrality is “perfect continuity without extension”. Density and extenuation are dimensions according to Walter Russell so they do not actually exist except in the intellect of Man; *i.e.*, within his definition of matter and energy.

A neutral center is a conjunction of coincidence and focalization of forces. If those centralized forces (molecules, planets, galaxies) cease to exist so too does their controlling neutral center which created them and by which they have their being. They, the cause and its effects, exist concurrently and co-dependently. In other words “can’t have one without the other”.

“All motion is thought, and all force is mind force.”⁷⁵

This then clarifies the adage all, the many, comes from One. The state of the one Supreme Neutral Center does not change yet it births and governs

⁷¹made in Man’s egoic image, anthropomorphized

⁷²[connecting link]

⁷³[Progressive Evolution]

⁷⁴[Dale Pond], [Prime Neutral Center]

⁷⁵Keely, [Keely and His Discoveries], pg 252

all else. No state of a material thing is fixed or stable within the universe as everything is in constant compound rhythmical (vibratory) motions. These states of motion are governed by invisible yet knowable principles and laws. It could be said the principles and laws governing these motions are fixed or stable.

“Macvicar⁷⁶ foreshadowed the teachings of this new philosophy when he wrote, “*All motion in the universe is rhythmical*⁷⁷. *This is seen in the forward and backward movement of the pendulum, the ebb and the flow of the tides, the succession of day and night, the systolic and diasystolic action of the heart*⁷⁸, *and in the inspiration and expiration of the lungs. Our breathing is a double motion of the universal ether, an active and a reactive movement. This androgyne principle, with its dual motion, is the breath of God*⁷⁹ *in man.*” The writings of the ancients teem with these ideas, which have been handed down to us from generation to generation, and are now flashing their light, like torches in the darkness, upon mysteries too long regarded as “*lying outside the domain of physical science*⁸⁰.”⁸¹

How can mind be devoid of thought/awareness? Desire is an aspect of mind, for instance. A quiet mind of knowing contains thought (depolar motionless awareness) but it does not contain egoic or intellectual thinking (polar motion). The physical universe is a recording of thinking dynamics; its existence is manifestation of the originating knowing thought activated by desire. Just as a seesaw contains a fulcrum that does not move it also contains extensions that do move. A seesaw is a trinity of states. Same thing with Divine Mind (the fulcrum or Cause) and everything else (the extensions or effects) in the universe.

⁷⁶Dr. John Gibson [Macvicar] went to the university of St. Andrews in 1814, where he excelled in mathematics and natural philosophy, and thence to Edinburgh, where he studied chemistry, anatomy, and natural history under John Knox’s tutelage, together with rhetoric, Hebrew and church history (see Dictionary of National Biography).

⁷⁷same as Russell’s [Rhythmic Balanced Interchange]

⁷⁸[Universal Heart Beat], [Dynaspheric Force]

⁷⁹[breath of life]

⁸⁰classical physics

⁸¹Bloomfield-Moore ([CJBM]), see [Father-Mother Principle], [Universal Heart Beat]

Chapter 5

Mind and Mind Force

5.1 Mind is Force

Universal Undifferentiated Mind is the One Force from which all other forces are derived. This premise is born out in the writings of many great philosophers, thinkers and sundry historical inspired texts.

“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, intermolecular, atomic, and interatomic¹. The remote depths of all their acoustic centers become subservient to the third, sixth, and ninth position of the diatonic, harmonic and enharmonic chords; which, when resonantly induced, concentrate concordant harmony², by reducing their range of corpuscular motion, drawing them as if towards each other’s neutral center of attractive infinity.”³

Keely writes *“Luminiferous ether⁴, or celestial mind force, a compound interetheric⁵ element, is the substance of which everything visible is composed. It is the great sympathetic protoplasmic element, life⁶ itself. Consequently, our physical organisms are composed of this element ... its seat in the cerebral*

¹see [Subdivision]

²[Syntropy]

³Keely, see [Mind Force the hidden Scalar Force]

⁴[Luminiferous ether]

⁵[compound interetheric]

⁶[life]

convolutions ... This sympathetic outreach⁷ (sympathetic radiation) is mind flow proper, or will force - sympathetic polarization to produce action, sympathetic depolarization to neutralize it. Polar and depolar differentiation⁸ result in motion. The true protoplasmic element ... permeates all forms and conditions of matter, having for its attendants, gravity, electricity and magnetism, the triple conditions born in itself. In fact, it is the soul of matter⁹, the element from which all forms of motion¹⁰ receive their introductory impulse¹¹.”¹² (underline added)

“The luminiferous ether the compound interetheric element in other words, celestial mind force¹³ is the substance of which all visible and invisible things are composed.”¹⁴ (underline added)

That Mind Force is a real force has been studied over a 28 year period by the engineering department of Princeton University in their PEAR Proposition project.¹⁵ Their findings were revolutionary with far ranging implications.¹⁶

“Nearly three decades of intense experimentation leave little doubt that the anomalous physical phenomena appearing in the PEAR studies are valid, and are significantly correlated with such subjective variables as intention, meaning, resonance, and uncertainty.”¹⁷

5.2 Whole vs Split Mind

Mind or Whole Mind means total Awareness unless otherwise specified. The term Mind or Whole Mind does not mean “intellect”¹⁸. Intellect is of the

⁷[sympathetic outreach]

⁸[Differentiation]

⁹[soul of matter]

¹⁰[Motion]

¹¹[introductory impulse]

¹²[THE NEUTRAL CENTER]

¹³[celestial mind force]

¹⁴[Ether - Snell]

¹⁵<http://www.princeton.edu/pear/>

¹⁶<http://www.princeton.edu/pear/implications.html>

¹⁷video <http://vimeo.com/4359545>

¹⁸[intellect], [ego]

ego and is a subset of the general Consciousness or Mind and is that limited awareness we have created as our *interpretation* of reality. The term “Mind” as used in SVP means the general Consciousness, Awareness, Whole or Undifferentiated Mind. *Thinking* is of the differentiated intellect, ego or Split Mind while *knowing* is of the Mind, heart or Whole Mind. Whole Mind knowing is knowing with the feeling of the heart while Split Mind thinking or intellect is of the limited duality of the ego.

“Your ego is a limitation within your Mind. Your ego exists as an expression of limitation.”¹⁹

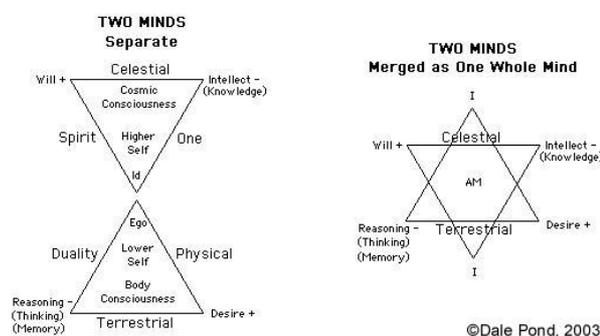


Figure 5.1: Whole and Split Mind

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/two-minds.jpeg>

5.3 Mind is of the Sixth and Seventh Subdivisions

Mind is of the Compound Interetheric²⁰ or seventh subdivision²¹ of matter and energy. See Table 5.1. According to Keely’s molecular and atomic morphology a molecule may be dissociated into its constituent parts or atoms. Atoms may then be further dissociated into their constituent parts and so forth for all finer subdivisions until the seventh subdivision where the rarefied ubiquitous sympathetic substance of Mind exists.

¹⁹Tom Carpenter, [Dialogue on Awakening], pg. 29

²⁰[Compound Interetheric]

²¹[subdivision]

Dimension	Subdivision	Relation
1	Molecular	separation of air brings us to the first subdivision only.
2	Intermolecular	to the second; see [supercritical fluid]
3	Atomic	to the third;
4	Interatomic	to the fourth;
5	Etheric	to the fifth; and
6	Interetheric	to the sixth subdivision, or positive association with luminiferous ether;
7	Compound Interetheric	as the seventh subdivision.

Table 5.1: Keely's Seven Subdivisions of Matter and Energy

It will be noted these seven states of matter and energy are not unlike the ancient states of matter and energy: Earth, Water, Air and Fire.

5.4 Keely - Substance and Nature of Mind Force

*"There is a celestial mind force²², a great sympathetic force which is life itself, of which everything is composed."*²³

*"All motion is thought, and all force is mind force."*²⁴

"There is no dividing of matter and force into two distinct terms, as they

²²[Mind Force]

²³Keely

²⁴Keely, [Keely and His Discoveries], pg 252

both are ONE. FORCE is liberated matter. MATTER is force in bondage."²⁵

The above last two sentences sound like something Albert Einstein would have said roughly twenty years later.

"The mighty forces latent in corpuscular matter, by which we are surrounded, are all held in oscillating vortex action by the Infinite Designer²⁶ of workings hidden from us, until the time is ripe for their disclosure. This latent, registered power²⁷ interchanges sympathetically with the celestial radiating streams, whereby light, heat, electricity, magnetism and galvanic action are propagated in their different orders, vitalizing all nature with their life-giving principles. (underline added)

"When this great scientific and religious truth has been made known, and established by demonstration, all controversy as to the source of energy will be for ever silenced. If I am the chosen instrument to develop this knowledge, and to make known the conditions which surround this pure truth, it is only that I may hand the key to those who will use it to enter the doorway that opens into the inaudible, and thus gain an insight into the now invisible region of the operation of Nature's most powerful governing forces, in the control over terrestrial matter by celestial mind."²⁸ (underline added)

"The action of the mind itself is a vibratory Etheric evolution, controlling the physical, its negative power being depreciatory in its effects, and its positive influence elevating."²⁹

"The substance of the brain³⁰ is molecular. The mind which permeates the brain is interetheric in substance; it is the element by which the brain is impregnated. This element, when excited into action, controls all physical motion as long as the necessary sympathetic conditions are maintained. Then conditions are no more immaterial in their character than are light and heat. Electricity, magnetism, gravity, and heat are latent in all aggregations of mat-

²⁵[Keely]

²⁶[God]

²⁷[Latent Force]

²⁸Keely in [Keely and His Discoveries] pg. 365-367

²⁹[Keely]

³⁰[brain]

ter. They are not obtained from terrestrial influences. Celestial radiation³¹ is the true impregnating medium in all these forces. The brain is the high resonating receptacle where the sympathetic celestial acts, and where molecular and atomic motion are induced, as according to the intensification brought to bear upon it by radiation.”³²

“The sympathetic conditions that we call mind are no more immaterial in their character than light or electricity. The substance of the brain is molecular, while the substance of the mind that permeates the brain is interetheric and is the element by which the brain is impregnated, exciting it into action and controlling physical motion. In order to trace the successive triple impulses³³, taking the introductory one of sympathetic negative outreach³⁴, towards the cerebral neutrals, which awaken the latent element to action, we find that mind may be considered a specific order of interatomic motion sympathetically influenced by the celestial flow and that it becomes when thus excited by this medium a part and parcel of the celestial itself. The brain is not a laboratory. It is as static as the head of the positive negative attractor³⁵, until influenced by certain orders of vibration, when it reveals the true character of the outreach so induced. The brain is the high resonating receptacle where the sympathetic celestial acts, and where molecular and atomic motion exhibits itself, as according to the intensification brought to bear upon it by the celestial mind flow. The question arises, Why is this condition of the (luminous) ether always under a state of luminosity of an especial order? Its characteristics are such, from its infinite tenuity and the sympathetic activity with which it is impregnated, that it possesses an order of vibratory, oscillatory velocity, which causes it to evolve its own luminosity. This celestial, latent power, that induces luminosity in this medium, is the same that registers in all aggregated forms of matter, visible and invisible. It is held in the corpuscular embrace until liberated by a compound vibratory negative medium. What does this activity represent, by which luminosity is induced in the high etheric realm, if not to indicate that even this order of ether is bounded by a greater region still beyond? The activity of the corpuscles represents its outflow from the luminiferous track towards the molecular centers of

³¹[Celestial Radiation]

³²Keely, [The Operation of the Vibratory Circuit]

³³[Musical Triplet]

³⁴[sympathetic outreach]

³⁵[Keelys Mechanical Inventions and Instruments]

neutrality, revealing the connecting link³⁶ between mind and matter. These conditions of luminosity have no thermal forces associated with them, although, paradoxically, all thermal conditions emanate from that source. The tenuity of this element accounts for it. It is when the streams come in conflict with crude matter that heat is evolved from its latent state and a different order of light from the etheric luminous is originated, the sun being the intermediate transmitter. All planets and systems are sympathetic intermediates, the whole of one system, connected in sympathy for each other, the Brain of Deity.”³⁷ See Figure 4.7.

5.5 Russell on Mind and Mind Substance

Keely uses the term ‘luminosity’ or ‘luminiferous ether’³⁸ which Russell calls ‘white still magnetic light of gravity’ or simply ‘magnetic light’.

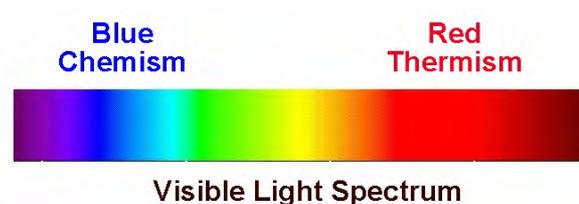


Figure 5.2: Red and Blue halves of the visible light spectrum
Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/visible-light-spectrum.jpg>

“Electricity is the divider of the invisible white still magnetic light³⁹ of gravity - which Mind is - into the red and blue halves of the visible light spectrum for the purpose of creating male and female bodies which alone constitute all matter.”⁴⁰

³⁶[connecting link]

³⁷Keely, [Dashed Against the Rock]

³⁸[7B.09 - Luminiferous Ether or Light]

³⁹[Magnetic Still Light]

⁴⁰Walter Russell, notation on chart, 1955



Figure 5.3: Red and Blue halves of Polar states

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/female-male-color.jpg>

“This universe of matter in motion is but the electric record of thought.”⁴¹

“Light is the living substance of Mind in action. It is the creating principle of the One substance.

“The One substance is the etheric “spiritual” substance of the One universal Mind.

“The entire “created” universe of all that is, ever has been, or ever will be, is but the One substance in motion, light.”⁴²

In other words matter is ultimately constituted of the polar concentrated and solidified substance of thought or Mind Force.

5.6 Mind is a Substance

Mind is substance or matter. Mind is a tenuous (ultra-gaseous) matter like ether or plasma (quantum substances). Mind is an etheric (quantum)

⁴¹Walter Russell, [The Secret of Light]

⁴²[Ether - Russell]

substance (ultra-plasma). Mind therefore possesses vibratory, chemical and other knowable and engineerable attributes. As Mind is substance it can be regulated, harnessed and manipulated as any other gaseous substance.

5.7 Mind is also as an aggregate of consciousness

Mind is also as an aggregate of consciousness (self awareness) and is comprised of three distinct subsets:

Compound Interetheric

Superconscious.⁴³ Also known as Christ Consciousness⁴⁴, Cosmic Consciousness⁴⁵, Knowing, Wisdom, awareness and science.

Interetheric

Consciousness. Also known as intellect, ego, reason, thinking.

Subconscious. Also known as Soul, body-mind and instinct.

Unconscious. Belief, Habit, Natural Man

Etheric

Tenuous matter that composes the plasma gases of the body actuated (vivified) via our conscious and unconscious thinking and (beliefs, cognized or not).

Interatomic

The liquids and solids composing the body actuated by the etheric or quantum mind forces.

Atomic

Atoms

Molecular

Simple, Compound and Complex Molecules

It is because of this hitherto unsuspected property of mind and consciousness as a form of tenuous matter the link is established between so-called hard science (3D, materiality, classical physics) and so-called sacred science or spiritual fields of study⁴⁶ now loosely called non-classical physics. They are

⁴³[Superconscious]

⁴⁴[Christ Consciousness]

⁴⁵[Cosmic Consciousness]

⁴⁶[telekinesis], [telepathy]

in fact one field of study when this connection is recognized and admitted.

Chapter 6

What is Vibration?

6.1 Quotes - vibration defined

*“Vibration is the rhythmical motion of a body within itself.”*¹

*“Vibration is a periodic interchange of state.”*²

*“Rhythmic Balanced Interchange.”*³

“All force is vibration...” Cayce (900-422) *“So is matter.”* Cayce (1861-16)

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

“Everything is vibratory.” Cayce (195-54)

“As we see manifest in the electrical forces as used by man. This becoming only an atom in motion, and as the atomic force gathers this, producing such vibration as to create heat, light, and of the various natures, by the kind, class or nature of resistance⁴ met in its passage in the cycle given, reducing or raising the velocity, or better by the class of atomic force it vibrates, either

¹Keely, see [Oscillation]

²[Dale Pond]

³[Russell]

⁴[Law of Vibrating Atomolic Substances]

with or against. These are examples of portions of universal forces."⁵

*"Vibration is movement. Movement is activity of a positive and negative force."*⁶

*"Electricity⁷ or vibration is that same energy, same power, ye call God."*⁸

*"Life in its manifestations is vibration. Electricity is vibration. But vibration that is creative is one thing. Vibration that is destructive is another. Yet they may be from the same source. As in the electrical forces in the form or nature prepared even for use in the body. Remember life is vibration. So is mind. So is matter."*⁹

6.2 A Vibration Is

A vibration is a rhythmic periodic expansion (entropy/dispersion) and contraction (syntropy/aggregation) change of state; *i.e.*, a periodic inter-exchange of seemingly opposite yet co-joined and inseparable polar states. The two polar states are entropy (expansion) and syntropy (contraction). In each wave or vibration there are two distinct yet related unseen sets of dynamic aliquot parts or constructive currents (when considering a wave train or continuous vibration as a vibratory stream or vibratory flow). One set of aliquot attributes or parameters brings about the periodic concentration or aggregation of the vibrating media while the other set of aliquot attributes or parameters causes periodic expansion or dispersion of the media. If these unseen influences (aliquot or scalar components) were not there and a dynamical constituent of each wave or vibration there could be no delta or change of state as both states or phases would be identical and unchanging. The perceived wave or vibration is then the effect of these unseen causative (scalar) influences, attributes, parameters or currents. The details of these unseen causative (scalar) influences, attributes, parameters or currents are

⁵Cayce (900-17)

⁶Cayce (281-29)

⁷[Law of Vibrating Atomolic Substances]

⁸Cayce (2828-4)

⁹Cayce (1861-16)

the subject of this presentation and are also presented in Laws of Being¹⁰, Laws of Being - Annotated¹¹, Wavefunction¹² and Part 12 - Russells Locked Potentials¹³. These two states are governed in part by the Law of Harmony¹⁴, Law of Harmonic Pitch¹⁵, Law of Harmonic Vibrations¹⁶ and the Law of Repulsion¹⁷. See also [Bjerknes Effect] for a mechanical experiment demonstrating these two tendencies of vibratory attraction and repulsion.

Vibrations manifest as three-dimensional (along x, y and z planes) expressions of these unseen creative currents. Vibrations are not well represented by the typical sine wave. The use of the sine wave graphic has become so ubiquitous it is often mistaken for the actual motions of a vibration. These three-dimensional expressions are a periodic expansion and contraction of the elements of the vibrating medium; *i.e.*, the air particles are mutually attractive then mutually repellant according to the Law of Attraction¹⁸ and Law of Repulsion¹⁹. The contraction is seen as the compressive wave front while the repulsion is seen as the vacuous backside of the compression front. This same dynamic can also be seen as the compressed air at the front of an airfoil and the rarefaction on top of that same airfoil or airplane wing or propeller.

6.2.1 Three Forces action on all Matter and Energy

“All conditions of dispersion and focalization are accompanied by the “celestial mind force” acting upon “terrestrial matter” - (corresponding to the mind force acting on the brain, which is only its molecular instrument.) This force is the first seal of the Book of Vibrational Philosophy - the first stepping stone toward solution of the Source of Life.

“All Nature’s forces are mind forces: magnetic, electric, etheric, acoustic,

¹⁰[Laws of Being]

¹¹[Laws of Being - Annotated]

¹²[Wavefunction]

¹³[Part 12 - Russells Locked Potentials]

¹⁴[Law of Harmony]

¹⁵[Law of Harmonic Pitch]

¹⁶[Law of Harmonic Vibrations]

¹⁷[Law of Repulsion]

¹⁸[Law of Attraction]

¹⁹[Law of Repulsion]

solar. Any metallic mass can be so impregnated with certain vibrations that it will assume mental attributes - attraction and repulsion. We must first understand the triune conditions or laws of that sympathetic medium which interconnects matter with matter, the triune conditions or laws of Sympathetic Streams and unites resonance of each of the seven subdivisions before we can understand the induction by means of acoustic generators, of magnetic antagonisms in matter and the different forms of energy thereby liberated.”²⁰

6.2.2 Law of Attraction (syntropy)

“Juxtaposed coherent aggregates vibrating in unison, or harmonic ratio, are mutually attracted.”²¹

6.2.3 Law of Repulsion (entropy)

“Juxtaposed coherent aggregates vibrating in discord are mutually repelled.”²²

6.2.4 Law of the Dominant (Celestial Mind Force)

“All wave propagations, electromagnetic or otherwise by being thus refracted can be measured in regard to the time of their propagation all of which are introductorily subservient to the luminiferous ether.”²³

6.3 Rad-Energy - entropic dispersion

Rad-energy²⁴ is radiant energy - expanding from a center. Sometimes this energy is referred to as dispersive, entropic or discordant as it is both. According to the Bjerknes Effect²⁵ radiation or radiant energy disperses (because affected media is mutually repulsive according to the Law of Repulsion²⁶) from a center losing its amplitude and degree of discord following the Square

²⁰[Snell Manuscript]

²¹Keely, [Bjerknes Effect]

²²Keely

²³Keely, [Luminiferous Ether]

²⁴rad-energy

²⁵Bjerknes Effect

²⁶Law of Repulsion

Law²⁷ until it reaches zero amplitude and zero discordant content at Russell's Plane of Inertia²⁸. The range of dispersion is dependent upon the Introductory Impulse²⁹ and conductivity of the media. This dispersive energy effects the media in which it travels through modulation and heterodyning³⁰. The overall effects of this process is governed by the Law of Transformation of Forces³¹.

6.3.1 Introductory Impulse

The introductory impulse sets the tone so to speak of the acoustic sound mentioned above. The introductory impulse may establish an entropic dispersion or syntropic condition according to its overtone content. When the partials are discords the resultant sound will be entropic dispersion. When the partials are concords the resultant sound will be syntropic concentration. The development of discordant overtones is a simple and low powered occurrence. All sounds developing from an introductory impulse will create discords. It appears the more power initiating an introductory impulse the more discords are developed according to the Law of Cycles³².

6.4 Vibration v Oscillation

These two rhythmic motions of vibration and oscillation are not the same. Without vibration and oscillation made distinct seeming unfathomable paradoxes arise. For these paradoxes to be understood the difference between vibration and oscillation has to be clarified.

*“Vibration is the rhythmical motion of a body within itself.”*³³ Not unlike the rhythmic motions of or within the heart without change in spatial location of the heart.

²⁷Square Law

²⁸Plane of Inertia

²⁹Introductory Impulse

³⁰Heterodyne

³¹Law of Transformation of Forces

³²Law of Cycles

³³[Keely]

*“Oscillation is a rhythmically recurring translatory movement.”*³⁴ Back and forth motion over space not unlike a child’s swing or pendulum.

In the ground state, at the moment of inflow of the sympathetic celestial streams or Divine Permeation (spark of Life), vibration is, symbolically, one cps and oscillation is one cps. From that moment on in the process of progressive rhythmic devolution or evolution, due to the Law of Harmonic Pitch³⁵, Law of Harmonic Vibrations³⁶, Law of Transformation of Forces³⁷ and Law of Cycles³⁸, acting together as one complex or orchestrated law, the One is refracted or differentiated into the multiplicity of materiality (the One becomes the Many) in the natural formation of overtones sometimes called harmonics³⁹. These secondary and tertiary overtones are not separate from their source (the fundamental) but are inextricably linked to it as Cause is linked to its Effects. Demonstrating everything-that-is has a common origin or One Source and state of Being (sympathy; *i.e.*, Love or Harmony) regardless of outer appearance (opinion) of separateness and individuality.⁴⁰

6.5 What a Vibration is NOT

A vibration is not a two-dimensional expression as a sine wave. Sine wave patterns are developed from measuring a wave front passing by a measuring device such as a microphone, accelerometer or transducer. As the amplitude changes - at the point of monitoring - a sine wave is traced of the varying amplitude over Time. I spoke about this over simplification in my 1994 SVP presentation in Milwaukee.⁴¹ The sound wave front actually expands simultaneously along all three dimensions (x, y and z). A simple sine wave then is but a trace of what is happening at a given xyz point in space but says next to nothing about what is happening within the three dimensional

³⁴[Keely]

³⁵[Law of Harmonic Pitch]

³⁶[Law of Harmonic Vibrations]

³⁷[Law of Transformation of Forces]

³⁸[Law of Cycles]

³⁹In SVP ‘harmonics’ are divisible by 2. All other developed secondary and tertiary tones are divisible by other divisors such as 3, 5, 7, etc. and are called ‘overtones’. Collectively they are called ‘partials’.

⁴⁰[Dale Pond]

⁴¹see videos on page [Basic Principles]

sound wave as per is originating forces, expanding and contracting dynamics and what is occurring with the periodic or aperiodic motions within the substance of the transmitting medium. The compression portion of the wave front is in actuality the mutual periodic attraction and subsequent concentration between the medium particles due to an increase in syntropic force. Conversely, the less dense (rarefied) wave section is an effect of the entropic forces causing the media particles to be mutually repulsive dispersing them into a relatively rarefied condition. Therefore the amplitude of a wave is predicated on the quantity of syntropy or entropy brought to bear on the vibrating media. The response within the media to an external excitation largely depends on the character (time, duration, condition and location) of the introductory impulse⁴² of the excitation. From the above sketch it can be readily seen how Macvicar's Law of Assimilation⁴³ (Russell's Rhythmic Balanced Interchange⁴⁴) is active in every periodic motion.

6.6 Wave Propagation

In the air the molecular wave front does not actually propagate as a wave. The wave is an effect of subtler causes which when viewed accumulatively have the *appearance* of a wave. Thus we are fooled when relying on our senses. The elements of the molecular medium (air particles) primarily rotate and oscillate about their centers depending on the nature of the disturbance. It is this disturbance that propagates causing periodic expansion and contraction of that which it encounters along the way and before dissipation. The quantum scalar component propagates as a quantum disturbance through the molecular medium. This disturbance is rhythmical; *i.e.*, (polar) intermittently syntropic then entropic in its effects upon the molecular receptive centers. There occurs an increasing compression to the 4++ potential⁴⁵ level where a 90° transformation, via the Law of Cycles, converts syntropic influence from syntropic compression into entropic dispersion (gradients of vacuity). Logically then the time it takes for the invisible internal disturbance to become a visible external phenomenon is the apparent propagation rate. This is a periodic disturbance (time to reach the critical 4++ state plus re-

⁴²[Introductory Impulse]

⁴³[Law of Assimilation]

⁴⁴[Rhythmic Balanced Interchange]

⁴⁵[4plusplus]

laxation time plus reformation time) and takes on the appearance of a wave or vibration. Of course, it should be noted not all rhythmic motions result in a complete 4++ transformation as not all rhythmic motions have sufficient power to achieve transformation. Hence there are low energy waves and vibrations that simply repeat themselves without self-destruction and rebirth in a new energy state.

6.7 Frequency

It can be argued Keely counted frequency as a dual motion of IN then OUT or OUT then IN depending where one begins counting. If this is true then the apparent oscillation of a pendulum is two oscillations from side to side. It is not certain this method of counting carries throughout the Keely materials but it is good to keep this in mind.

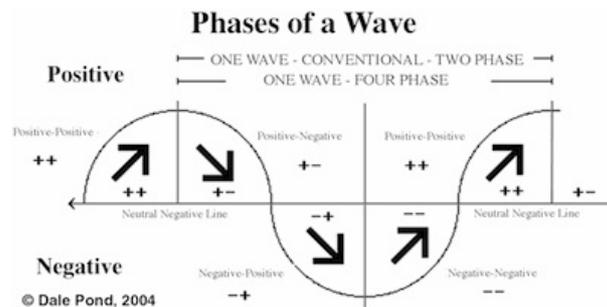


Figure 6.1: Four Phases of a Wave or Oscillation

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/fourphases400.gif>

6.8 Law of Cycles

“Coherent aggregates harmonically united constitute centers of vibration bearing relation to the fundamental pitch not multiples of the harmonic pitch, and the production of secondary unions between themselves generate pitches that are discords, either in their unisons, or overtones with the original pitch; from harmony is generated discord, the inevitable cause of perpetual trans-

*formation.”*⁴⁶

⁴⁶[Keely]

Chapter 7

Laws of Being

7.1 Introduction

Professor Daniel Brinton¹, author of the following reviewed article, spent considerable time in Keely's nearby laboratory and workshop. It is believed this article is the clearest attempt to explain the basic concepts Keely discovered, developed and worked with and how he used them. After all, Keely was present to directly answer Brinton's questions. Therefore it behooves us to closely examine this article to discern understanding and hopefully practical use.

The terms and phrases in this article are linked to supporting materials within the svpwiki.com where the bulk of the known Keely materials are located. Comments are given immediately below a Brinton quote. These comments are quite important because they represent a synthesis of years of learning Keely's and Russell's jargons as well as comparative contemporary concepts and research. A careful reader will see an intermingling of materials from various sources that support each other. Most notably is the mutual affinities between the works and ideas of John W. Keely and Walter Russell.

Brinton's words or quotes are preceded by **Roman Numerals in bold type**. Numbers and brackets ([]) contain comments and links about Brinton's writings and Keely's concepts. These terms and phrases in brackets

¹Daniel Garrison Brinton (May 13, 1837 July 31, 1899) was an American archaeologist and ethnologist at the University of Pennsylvania.

([]) can be searched in www.svpwiki.com. The original unaltered Brinton text can be seen in “Keelys Physical Philosophy - Appendix-I” and “Laws of Being, Appendix-II” at the end of this book or within the [svpwiki.com](http://www.svpwiki.com).

7.2 Rhythmical Relations

I. *“The fundamental conception of the Universe is force manifesting itself in rhythmical relations.”* (continues to II);²

7.2.1 Principle of Rhythmic Balanced Interchange

“This principle of rhythmic balanced interchange³ between Father⁴ (syntropy) - Mother⁵ (entropy) lights of gravitation (syntropy) and radiation (entropy) is fundamental in all creating things.”⁶

In other words the principle of Rhythmic Balanced Interchange⁷ is a universal principle^{8,9}, as Russell repeatedly emphasized, active in all things from molecular to Mind energy subdivisions (states). Rhythmic Balanced Interchange is after all what every vibration and oscillation does that the ubiquitous and over simplified sine wave does not reveal.

7.2.2 Every individualized object assimilates itself

Macvicar¹⁰ writes: *“Every individualized object assimilates itself to itself in successive moments of its existence and all objects tend to assimilate one another.”¹¹*

²[Rhythmic Balanced Interchange]

³[rhythmic balanced interchange]

⁴[Father]

⁵[Mother]

⁶Russell, [The Secret of Light], page 150; see ‘Chapter 6 - What is Vibration?’

⁷[Rhythmic Balanced Interchange]

⁸[Principles]

⁹see Chapter 11

¹⁰Dr. John Gibson [MacVicar] professor at university of St. Andrews 1830.

¹¹[Snell Manuscript], [Three Laws of Being], [Law of Assimilation], [Modes of Vibration - Annotated]

Please note this law as expressed by Macvicar is the same universal law in its essence and dynamic as expressed by Jesus wherein he says:

“Jesus said unto him, Thou shalt love the Lord thy God with all thy heart, and with all thy soul, and with all thy mind. This is the first and great commandment.” (Matthew 22:3738).

“And the second (commandment) is like unto it; Thou shalt love thy neighbor as thyself. On these two commandments hang all the law and the prophets.” (Matthew 22:3940).

SVP (nor this author) does not subscribe to or promote organized religions but we are interested in universal laws and principles (applicable universally) regardless who revealed them or wherever they may be found.

Love and Sympathy are synonyms for affinity, assimilation or being One With. These same dynamics apply everywhere and with everything thus establishing sympathetic association¹² between all things, everywhere and at all times.

To repeat when the constituent frequencies of A and B are identical A transmits to B and B transmits to A sympathetic association or mutual resonance (Love or Sympathy) occurs. These dynamics are as expressed in the following of Keely’s forty laws¹³:

Law of Harmonic Vibrations¹⁴

“All coherent aggregates are perpetually vibrating at a period-frequency corresponding to some harmonic ratio of the fundamental pitch of the vibrating body; this pitch is a multiple of the pitch of the atomoles¹⁵.” See Overtone Series¹⁶.

¹²[sympathetic association], entangled

¹³[Keelys Forty Laws]

¹⁴[Law of Harmonic Vibrations]

¹⁵[atomoles]

¹⁶[Overtone Series]

Law of Transmissive Vibraic Energy¹⁷

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

Scholium: *“All forms of transmissive energy can be focussed, reflected, refracted, diffracted, transformed, and diminished in intensity inversely as the square of the distance from the originating source.”* See also Square Law¹⁸.

Law of Sympathetic Oscillation¹⁹

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

As the atomole is the constructive constituent of all atoms all atoms are therefore in sympathetic association at, by and through these atomoles. All is one at this level or state of being even though at the physical level of our perception everything appears to be separate and individual.

¹⁷[Law of Transmissive Vibraic Energy]

¹⁸[Square Law]

¹⁹[Law of Sympathetic Oscillation]

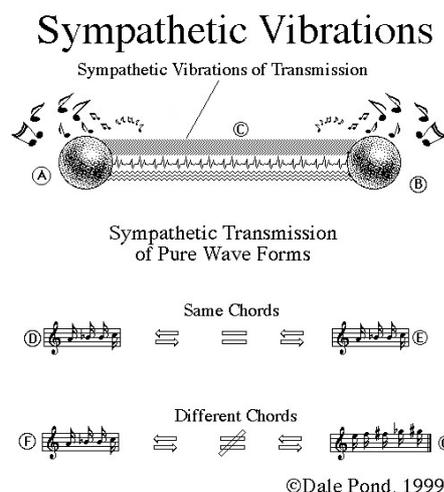


Figure 7.1: Sympathetic Vibration - Entanglement

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/sympathetic-vibrations.jpg>

7.2.3 These modes are today much like “phase”

These modes, or periodic change of state, are today much (but not exactly) like what we call “phase” of a wave. Usually conventional ‘phase’ is undistinguished in construction as to its causative (aliquot/scalar) forces and dynamics being primarily intermittent syntropic and entropic. Phase in modern usage is almost exclusively linked to the positive or negative halves of a sine wave which does not convey all that is occurring in the wave under investigation.²⁰

II. “This definition [from I] is exhaustive, including both thought²¹ and extension²², mind and matter. The law for the one is the law for the other. The distinction between them is simply relative, i.e., quantitative, not qualitative.

As above so below - all forms of matter and energy regardless of frequency, subdivision or state are involved in a periodic Rhythmic Balanced Inter-

²⁰see chapters ‘Chapter 6 - What is Vibration?’ and ‘Chapter 8 - Modes of Vibration’

²¹[thought]

²²[Sympathetic Outreach]

change between their polar states where one polar state becomes the other intermittently.

III. “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.”²³

“Rhythmic relations” indicates ALL vibratory and oscillatory motions are effects of this periodic interchange of intertwined poles between syntropic contraction or assimilation and entropic expansion or dispersion. This interchange occurs as these two states are in the relative proportion (ratio) of third parts to one another.

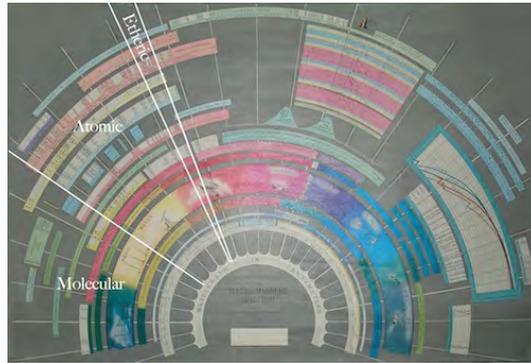


Figure 7.2: Chart showing location of the three mode frequencies.
Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/electromagneticspectrummodes500.jpg>

That three or threeness is fundamental is now seen to be valid in the Rule of Threes²⁴ re-discovered by Vitaly Efimov and is called the ‘Efimov trimer’ or ‘Efimov state’²⁵. Likewise both Keely in the 1880s and Russell in the 1920s clearly comment on the value of threes²⁶.

“Rest and action are three. Space and matter are three. Equilibrium and

²³[14.35.1 - Keely 3 6 and 9] and [Rhythmic Balanced Interchange]

²⁴[Rule of Threes proven]

²⁵Wikipedia/Efimov state

²⁶[Three]

*motion are three. Dimensions and pressures are three. The heartbeat of the universe, and yours, are three. Likewise, its breathings and yours, its temperatures and yours, and all things else of the universe, and you, are three.*²⁷

7.2.4 ‘Thirds’ is usually a mathematical relationship of proportion

Within this and related SVP documents the concept and use of the term ‘thirds’ is usually a mathematical relationship of proportion of wave function parameters²⁸ (of volume, force, density, *etc.*) and not always a musical relation. A given whole being One Whole, has three parts always in varying yet relative proportion to one another. The overall or resultant expression of the One Whole is dependent on the ratios being applied. More syntropy makes the whole more syntropic. The more entropy the more entropic will be the One Whole. Therefore and thereby *polarity is not fundamental but may be modified or manipulated by altering the ratios of these proportions held as thirds or third parts.*²⁹

7.3 Threefold Relations

IV. “These threefold relations may be expressed with regard to their results (appearances) as,

- I. Assimilative (attractive, aggregating)
- II. Individualizing (dispersing, dissociating)
- III. Dominant or Resultant (controlling, determining)

²⁷Russell, [Atomic Suicide]?, Chapter 5 - Prelude - The Transformation of Man

²⁸[Eighteen Attributes or Dimensions]

²⁹Chapter 10 - Proportions (Ratios) of Relative Values

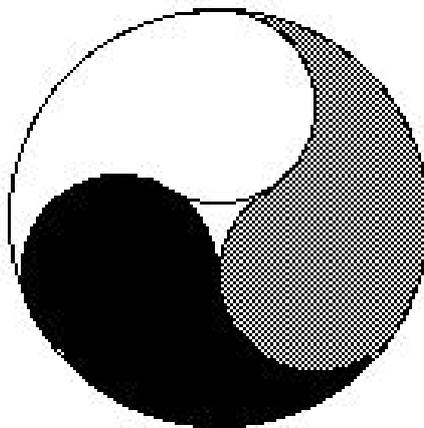


Figure 7.3: Triune Forces/Modes/Proportions combined as One Force
 Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/Triune-Forces.jpg>

7.3.1 Each of the above dynamics (IV) is a $\frac{1}{3}$ part or current of a $\frac{3}{3}$ stream

Each of the above dynamics is a $\frac{1}{3}$ portion or current of a $\frac{3}{3}$ stream (rhythmic flow of force or energy³⁰). These three-fold relations are resultant dynamics of three-fold relations of these three currents acting “*as one*” - constituting a single compound stream or chord tone; *i.e.*, combined proportions of each with the others. This combination of three entities to make one compound entity works the same way three musical notes may be sounded at one time as a triplet chord, hence Keely’s constant use of triplet chord notations throughout his charts. It is further presumed the ratios of the musical notes within a triplet chord on his charts³¹ are the same ratios when specifying any other applied proportional value such as frequency, amplitude, *etc. regardless of frequency range or subdivision.*

³⁰ “*In this system (Sympathetic Vibratory Physics), force and energy are classified as opposites, working in antagonism to each other: Force as a positive power which initiates aggregative motion, and resists separative motion, in three postules, of ponderable matter in the etheric medium; Energy as a negative power, which initiates separative motion, or disintegration, and resists aggregative motion, in three postules of ponderable matter, also of the etheric medium.*” Bloomfield-Moore, [What Electricity Is - Bloomfield Moore]

³¹[Part 25 - Keelys Wonderful Charts of Vibratory Etheric Science]

7.3.2 Ratios of Harmonic and Enharmonic Potentials

It is further assumed (until bench testing shows otherwise) these triplet chords when considered as a singular tone each represents a different degree of concord and discord. Tables would have to be developed from bench testing. These ratios of concord and discord would also parallel in some regards Russell's concepts of Locked Potentials because that is what they are.



Figure 7.4: Typical Triplet Chords in Keely's charts.

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/Angles-Segment-500.jpg>

7.4 Three Actions and Laws of Being

V. *“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.³²

II. **Law of Individualization:** every such object tends to assimilate all other objects to itself.³³

III. **Law of the Dominant:** every such object is such by virtue of the higher or dominant force which controls these two tendencies.³⁴

³²[Law of Assimilation]

³³[Law of Individualization]

³⁴these three laws act according to and with the [Law of Sympathetic Association] and [Law of the Dominant]

7.4.1 Law of Sympathetic Association

“The effects of the Law of Sympathetic Association³⁵, which Mr. Keely demonstrated as the governing medium of the universe, find illustrations in inanimate nature. What else is the influence which one string of a lute has upon a string of another lute when a stroke upon it causes a proportionable motion and sound in the sympathizing consort, which is distant from it³⁶, and not perceptibly touched? It has been found that, in a watchmaker’s shop, the timepieces, or clocks, connected with the same wall or shelf, have such a sympathetic effect in keeping time, that they stop those which beat in irregular time; and, if any are at rest, set those going which beat accurately. Norman Lockyer³⁷ deals with the Law of Sympathetic Association as follows: - “While in the giving out of light we are dealing with molecular vibration taking place so energetically as to give rise to luminous radiation, absorption phenomena afford no evidence of this motion of the molecules when their vibrations are far less violent.” . . . “The molecules are so apt to vibrate each in its own period that they will take up vibrations from light³⁸ which is passing among them, provided always that the light thus passing among them contains the proper vibrations.³⁹” . . . “Let us try to get a mental image of what goes on. There is an experiment in the world of sound which will help us.” . . . “Take two large tuning-forks, mounted on sounding-boxes, and tuned to exact unison. One of the forks is set in active vibration by means of a fiddle-bow, and then brought near to the other one; the open mouths presented to each other. After a few moments, if the fork originally sounded is damped to stop its sound, it will be found that the other fork has taken up the vibration, and is sounding distinctly. If the two forks are not in unison, no amount of bowing of the one will have the slightest effect in producing sound from the other.”⁴⁰

³⁵[Law of Sympathetic Association]

³⁶spooky [action at a distance]

³⁷Sir Joseph Norman Lockyer, FRS (17 May 1836 - 16 August 1920), known simply as Norman Lockyer, was an English scientist and astronomer.

³⁸etheric [disturbance of equilibrium]

³⁹[Law of Force]

⁴⁰Clara Bloomfield-Moore([CJBM]), [Keely and His Discoveries], [Tuning Forks], [Sympathy]

7.4.2 Law of Assimilation

The Law of Assimilation⁴¹ acts according to the laws of sympathetic attraction and oscillation as also the Law of Sympathetic Oscillation.⁴² - *“this law is to the effect that every individualized object tends to assimilate itself to itself, in successive moments of its existence, and all objects to assimilate one another.”*⁴³

7.4.3 Law of Attraction

*“Juxtaposed⁴⁴ coherent aggregates vibrating in unison, or harmonic ratio, are mutually attracted.”*⁴⁵

Here then is the great law of attraction properly explained. When two or more objects are ‘vibrating in unison’ they are sympathetic to each other and what occurs to one occurs to both. The objects are ‘linked’ by sympathetic vibration and/or sympathetic oscillation. This phenomenon is recognized today as ‘*entanglement*’ or ‘spooky action at a distance’.⁴⁶ Where objects are ‘equally and uniformly spaced’ we see the basis for geometric shapes such as tetrahedrons, *etc.* thought so much of by so many these days. Uniformity of design elements or dimensions (geometry) is therefore an attribute of harmony and therefore attraction or assimilation lacking entropic (discordant) elements of dispersion (numbers and ratios other than those forming unisons or harmonic ratios).

7.4.4 Law of Sympathetic Oscillation

*“Coherent aggregates immersed in a medium pulsating at their natural pitch simultaneously oscillate with the same frequency, whether the pitch of the medium be a unison, or any harmonic of the fundamental pitch of the creative aggregate.”*⁴⁷

⁴¹[Law of Assimilation]

⁴²[Law of Sympathetic Oscillation]

⁴³[Law of Assimilation]

⁴⁴equally and uniformly spaced

⁴⁵Keely, 1894; see [Bjerknes Effect]

⁴⁶[Sympathetic Vibration], [Sympathetic Oscillation], [Entanglement]

⁴⁷Keely, 1894

This coincidental and synchronous action is seen in the coordinated motion of seeming separated clock pendulums all immersed in the common medium of the atmosphere or sharing contact through a wall or shelf. In a similar fashion this is the basis of dissolving foreign materials (aggregates) by solvents in solutions. Curiously it is the same dynamic at work in the Stockholm Syndrome⁴⁸. See II above why this is so.

7.4.5 Infinite neutral Mind centers and controls all motion

Should we replace the non-existent infinitely small strings as held in the String Theory with infinitely small centers⁴⁹ to which are applied the above three laws it can be seen how every center is sympathetic (in sympathy) with every other center and are therefore quantum entangled; *i.e.*, sympathetic one to all others and clearly reflects the above three laws and their dynamics. This would of course imply a single fundamental chord at the very heart or core of the universe. This highly sympathetic universal chord could be the ‘*Cosmic microwave background*’⁵⁰ that vibrates and oscillates everything in the universe at a common pitch thus sympathetically connecting (entangling) every seeming individuated thing to all other seeming individuated things regardless of space. At certain subdivision levels it may therefore be presumed all things regardless of location are sympathetically linked and behave as One Thing thus all things may be considered as One yet having individual exist and experience.⁵¹

Cayce mentions this seeming duality of One yet individual state of affairs as described by the above laws, states and circumstances thusly:

*“That it, the entity, may know itself to be itself and part of the Whole; not the Whole but one with the Whole; and thus retaining its individuality, knowing itself to be itself, yet one with the purposes of the First Cause that called it, the entity, into being, into the awareness, into the consciousness of itself. That is the purpose, that is the cause of being.”*⁵²(underlines added)

⁴⁸Wikipedia/Stockholm Syndrome

⁴⁹[Center Theory]

⁵⁰[Cosmic microwave background]

⁵¹[What is Sympathy]

⁵²Cayce (826-11)

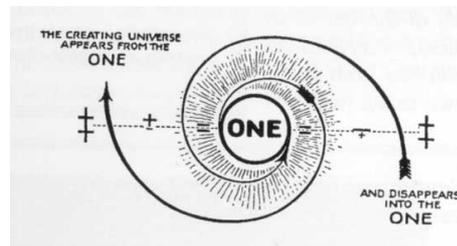


Figure 7.5: From the One comes the many.

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/One-Many.jpg>
(courtesy University of Science and Philosophy)

And of course this illusion of separateness carries on into the affairs of each individual and hence into society.

As can be seen from the above the totality of the universe is One totality with seeming separate individualizations. Science sees it when it insists on creating experiments isolated from all outside influences. This of course can work in purely mechanical experiments but once the threshold of the atom is breached into the quantum world nothing can be isolated from these higher and finer outside forces and influences. Indeed even the atom is affected by these higher finer forces - we simply do not know how to pay attention to the effects which includes the existence of the atom itself being created and maintained by these unseen forces⁵³.

How the many forms of matter and substance develop through evolution⁵⁴ from the seeming void of Mind or Consciousness is not the topic of this book. Perhaps we'll get around to writing such a book in the future.

7.4.6 One Substance is Mind

There is but One Substance in the universe and that substance is Mind which some have called "Light" as in the Light of Mind. Being of the Light or Etheric order of subdivided being the ancients called it "Luminiferous

⁵³[7.9 - Ultimate Constitution of Matter and Action of Force Regulating its Phenomena]

⁵⁴svpbookstore.com - Hughes, F.; Harmonies of Tones and Colours - Developed by Evolution

Ether”⁵⁵. Walter Russell expressed it thusly:

“Light units have the appearance of individuality, even as you and I.

“There is no individuality in this universe of Mind. There is but an appearance of individuality.

“This is a universe of the One Thing.

“That One Thing is Mind.

“The substance of thinking Mind in action is light.

“There is but One substance.

“The One substance cannot be divided into many substances, or many parts.

“Individuality is but an appearance, an effect of potential in the periodicity of thinking.”⁵⁶

Thus it can be seen Mind centers⁵⁷ all things because all things are motions centralized about a common center originating of Mind as Source⁵⁸ or the Interetheric realm or subdivision (6th subdivision) of being.



Figure 7.6: Mind centers all motion.

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/thought-rings.jpg>
(courtesy University of Science and Philosophy)

VI. “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.”

Simplistically everything vibrates and oscillates perpetually.⁵⁹ But not all

⁵⁵[Luminiferous Ether]

⁵⁶Russell, [The Universal One], Book 02 - Chapter 01 - Dynamics of Mind - Concerning Light Units of Matter

⁵⁷[Figure 12.06 - Mind Centers and Controls Motion]

⁵⁸very important article by Keely [7.9 - Ultimate Constitution of Matter and Action of Force Regulating its Phenomena]

⁵⁹[Law of Harmonic Vibrations]

vibrations and oscillations are equal bringing us to the subject of this book. The great secret to understanding is to see and know the unseen working constituents of vibrations and oscillations such that we can engineer them to create the precise waveforms and effects we want. These periodic motions are not solely about sine, square, sawtooth and pulse shaped waves. Carefully sculpting a waveform synthesizing specific partials and harmonics allows a fine precision in applying these waveforms. Likewise understanding how waves interact with each other, as shown in Keely's forty laws,⁶⁰ gives us mastery over such vibrating and oscillating dynamics and media.

7.5 Three Modes of Vibration

VII. “The essential differences give rise to three modes of vibration:

I. The Radiating: called also the “Dispersing”, the “Propulsive”, the “Positive”, and the “Enharmonic”.⁶¹

II. The Focalizing: called also the “Negative”, the “Negative Attractive”, the “Polarizing”, and the “Harmonic”.⁶²

III. The Dominant: called also the Etheric, or the Celestial.⁶³

7.5.1 Polarity, Duality, Bias and Potential

Polarity is usually understood as two seemingly opposing forces or states as in for instance the two poles of magnetism. Neither Keely nor Russell saw polarity in this simplistic manner. To them there are two composite poles and a centering fulcrum or neutral point, neutral center or neutral line. All three states are *effects* of subtler unseen forces united in discrete proportions of three united and manifesting as one. A key here is *preponderance* as in one composite force is preponderant over the other within a triplet configuration

⁶⁰[Keelys Forty Laws]

⁶¹[Entropic]. [Russell] also calls this ‘[Mother]’ or ‘[Magnetic]’.

⁶²[Syntropic] or [Negentropic]. Russell also calls this ‘[Father]’ or ‘[Electric]’.

⁶³[Mind], [Etheric Elements], [Scalar], [Spirit]

or pole. Each pole then is a result determined by predominance of one composite force over the other two *within each pole*.

7.6 Three Laws of Being

VIII. *“These, it will be noted, correspond to the three Laws of Being”* (continues to IX.)

Syntropy	Neutral	Entropy
The Focalizing	The Dominant	The Radiating
Absorbing	Centering	Emanating
Accumulating	Balancing	Dissipating
Plus	Fulcrum	Minus
Assimilating	Neutralizing	Dispersion
Heating	Zero	Cooling

Table 7.1: Three Polarity States and Effects

6465

7.6.1 Dominant Mode

*“By use of the dominant mode, which is allied to the “order” of etheric vibrations, we can induct, “sympathetic negative attraction” or “sympathetic positive propulsion” in any mass, according to its mass chord.*⁶⁶

The Dominant mode is of the etheric and interetheric subdivisions that governs the two lower order (molecular and atomic) subdivisions party to the polar triplet.

⁶⁶This quote is from [SYMPATHETIC INDUCTION - Snell]. It says there is a polarity to the etheric (quantum) range of vibrations (row four in the above Table). This also implies the two polar streams are different and therefore must be created and applied as separate streams.

*“All the dominant conditions of nature represent the focal centers towards which like surrounding ones become sympathetically subservient.”*⁶⁷

*“By use of the dominant mode, which is allied to the “order” of etheric vibrations, we can induct, “sympathetic negative attraction” or “sympathetic positive propulsion” in any mass, according to its mass chord.”*⁶⁸

*“The magnetic cannot lead the electric, nor the electric the gravital, nor the gravital the magnetic. All are subservient to the dominant, as a train of cars is subservient to the locomotive which pulls it along; the only difference between the two is that one is sympathetic, the other mechanical. Though this is a crude illustration, it conveys a great truth in sympathetic philosophy. All sympathetic flows have this triune condition associated with them, the same as the molecular, atomic and etheric aggregations of all forms of visible matter; the compound etheric, or dominant, being the leader and yet one of the constituents of the molecule itself. The dominant we may call the etheric portion of the molecule; the harmonic, the atomic; and the enharmonic, the molecule itself. The dominant parts of the triune combination of the sympathetic streams are the leaders, toward which all co-ordinate to make up the sympathetic terrestrial envelope of the earth; the cerebral being the high dominant, or compound etheric, the luminiferous proper.”*⁶⁹ (underline added)

⁶⁷[Keely and His Discoveries], page 179

⁶⁸[SYMPATHETIC INDUCTION - Snell]

⁶⁹[Keely and His Discoveries]

7.7 Table of Modes Correspondences

Source	From Center ⁷⁰	To Center ⁷¹	Balancing or Controlling
Keely / SVP ^[6]	Enharmonic	Harmonic	Dominant
Modern wave form	Longitudinal ^[2]	Transverse ^[3]	Rayleigh ^[10]
Angle of Incidence	0°- 45°	45°- 90°	<90°
Path/Motion ^[3]	Straight	Zig-zag	Circular
Keely / SVP	Dispersing	Syntropic	Dominant/Depolar
Keely / SVP	Entropic	Syntropic	Dominant /Depolar
Russell ^[4]	Plus	Minus	Fulcrum
Russell ^[4]	Gravitation	Radiation	Balance, Void
Charles Henry ^[7]	Gravitation	Electromagnetic	Biopsyctic
Possible Correspondence ^[5]	Thirds	Sixths	Ninths

Table 7.2: Table of Mode Correspondences

7.7.1 The above dynamics are to the following effects

Many	to	One	to	Many
Polar	to	Depolar	to	Polar
Unbalanced	to	Balanced	to	Unbalanced
Split	to	Whole	to	Split
Dispersed	to	Concentrated	to	Dispersed
Differentiated	to	Voided/Undifferentiated	to	Differentiated
Discord	to	Harmony	to	Discord

Table 7.3: Some Mode Effects

7.7.2 Relations of Thirds

Thirds refers to molecular subdivision.	Physical movements, classical physics and mechanics.
Sixths refers to atomic subdivision.	Sympathetic impregnation of electromagnetism in matter. Operations of thermism ⁷² and low light.
Ninths refers to etheric subdivision.	Sympathetic transfer from the celestial luminous or celestial radiation ⁷³ , also chemism. ⁷⁴

Table 7.4: Thirds, Sixths and Ninths

75

7.8 Three Modes, Currents and Streams

IX. “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 relations 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 $33 \frac{1}{3} : 66 \frac{2}{3} : 100$.”

7.8.1 Ratios and Proportions of Thirds

The ratios and relations below are logical determinations (best guess) and are not to be taken as established or proven fact. Lots of lab work is needed here.

⁷⁵see ‘Chapter 9 - Modes of Vibration’ for more details on structure of thirds. See also [Newton of the Mind], [Law of Cycles].

$E = 33 \frac{1}{3} =$ Dispersing, Positive, Enharmonic, Depolarizing, Entropic, Mother, Magnetic.

$S = 66 \frac{2}{3} =$ Concentrating, Negative, Harmonic, Polarizing, Syntropic, Father, Electric.

$D = 100 =$ Etheric, Celestial, Mind, Spirit When defined as proportional parts:

$$\begin{aligned} E &= 33 \frac{1}{3} = \frac{1}{3} \text{ parts of A} \\ S &= 66 \frac{2}{3} = \frac{2}{3} \text{ parts of A} \\ D &= 100 = 100 \text{ parts of A.} \end{aligned}$$

so if

$$\begin{aligned} D &= 100 \text{ parts then} \\ S &= \left(\frac{2}{3} \times A\right) \text{ or } 66 \frac{2}{3} \text{ parts} \\ \text{and} \\ E &= \left(\frac{1}{3} \times A\right) \text{ or } 33 \frac{1}{3} \text{ parts.} \\ &(\text{when applied to vibratory or oscillatory rates}) \end{aligned}$$

if

$$D = 100 \text{ cps}$$

then

$$\begin{aligned} S &= 66 \frac{2}{3} \text{ cps} \\ E &= 33 \frac{1}{3} \text{ cps} \end{aligned}$$

Certainly this applies to AMPLITUDE and POWER as well.⁷⁶

These proportions most assuredly apply to “states” of compression (syntropy) and dispers

Where

$$\begin{aligned} E &= \text{Entropy (dispersion)} \\ S &= \text{Syntropy (contraction)} \\ D &= \text{Dominant (controlling or regulating)} \end{aligned}$$

⁷⁶[Potential]

7.9 Evolution of Matter

X. “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’.”⁷⁷

Conventionally and generally speaking this assimilating and accumulating into seeming solid matter process would be akin to the forces involved in the formation of bosons and in Bose-Einstein condensation nuclear fusion (BECNF) or boson cluster state nuclear fusion (BCSNF).⁷⁸

7.10 Neutral Center

XI. “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’.”⁷⁹

⁷⁷[Syntropy], [Negentropy], (Harmonic concentration or aggregation) via [Sympathetic Affinity], [Inverse Square Law] and [Sympathetic Association]

⁷⁸Wikipedia/Bose-Einstein condensation

⁷⁹[KEELYS PHYSICAL PHILOSOPHY - Snell], [Neutral Center], [Center of Sympathetic Attraction]

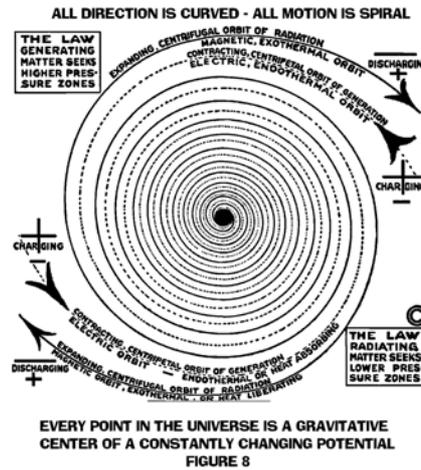


Figure 7.7: Every point in the universe is a gravitative center.

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/gravity4.jpg>
(courtesy University of Science and Philosophy)

7.10.1 Center of Sympathetic Coincidence or Neutral Center

“The neutral center is that protean, uncreated, indestructible, forever-existing FIRST CAUSE⁸⁰. Without hands, without tools, without thought, without emotion, without love, without form, without substance, it, of itself, created all these. All that we see or can see in the objective Universe exists because of and by means of the properties and powers of the NEUTRAL CENTER.”⁸¹

“Neutral centers are the focalized seat of sympathetic concordance for controlling any differentiation⁸² that may exist outside, or in the mass that surrounds them.”⁸³

I like to think of the power of the Neutral Center to be much like the power of a conductor wielding control over his orchestra. He sets the tone with

⁸⁰[First Cause]

⁸¹Keely, [First Cause], [Neutral Center]

⁸²[differentiation]

⁸³[Keely and His Discoveries], pg 255

his pitch pipe and moderates the time, coordinates activity (harmony) and amplitude of each section and individual within his domain - the orchestra.

“Neutral centers are the center of Sympathetic Coincidence⁸⁴.”⁸⁵

7.11 Syntropy or Mutual Affinity

XII. “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.⁸⁶

These center directing forces are by definition syntropic derived from mutual affinity itself born of harmony. They are born of harmonic (sympathetic) vibrations as discussed in the Bjerknæs Effect⁸⁷, Law of Harmonic Vibration, Law of Attraction and Law of Cycles. The etheric or Dominant level frequencies appear to possess a predominant proportion of syntropic (center seeking) forces which increase with velocity. Hence the centralizing power of tornadoes and hurricanes - all vortex motion.

“Taking into consideration even the introductory conditions of the etheric stage, etheric vibration has proved to me that the higher the velocity of its rotating stream the greater is its tendency towards the neutral center or center of sympathetic coincidence. Were it otherwise, how could there ever be any planetary formations or the building up of visible structures? If a billiard ball were rotated to a certain velocity, it would separate in pieces, and the pieces would fly off in a tangent, but if it were a ball of ether, the higher the velocity of rotation, the stronger would be the tendency of its corpuscles to seek its center of neutrality, and to hold together.”⁸⁸ (underline added)

⁸⁴[Sympathetic Coincidence]

⁸⁵[Keely and His Discoveries], pg 220

⁸⁶[Syntropy], [Negentropy], [Father Forces]

⁸⁷[Bjerknæs Effect]

⁸⁸[Keely], [ATTRACTION PROPULSION ETC]

7.12 Subdivisions of Individualized Being

XIII. “As no current or flow of force can be composed of one mode of vibration only, but must always be composed of three modes uniting in varying thirds, we have $1 \times 2 \times 3 = 6$ as the total possible forms of Sympathetic Coincidence, or, to speak in ordinary terms, there can be six; and six 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 them as follows:

- I. Molecular
- II. Intermolecular
- III. Atomic
- IV. Interatomic
- V. Etheric
- VI. Interetheric
- VII. Compound Interetheric (added by editor)⁸⁹

7.12.1 Table of Subdivisions of Matter and Energy

Subdivision	Keely	Keely Name	Form	Mental	Ancient	Tenuity	Quantum	Bearden	Vedic
7th	Compound Interetheric	Neutral Center	Void	Superconscious	God	Vacuum	Gluon	4-space / Time	
6th	Interetheric	Interetheron	Atomolini	Conscious	Awareness	Vacuum	Quark	4-space / Time	
5th	Etheric	Etheron	Etheron	Mind Activated	Ether	Plasma	Photon	4-space / Time	Akasa
4th	Interatomic	Interatom	Atomole	Electromagnetic	Fire	Gas/Plasma	Electron	3-space	Marut
3rd	Atomic	Atom	Atom	Matter	Air	Gas	Atom	3-space	Tejas
2nd	Intermolecular	Intermolecule	supercritical fluid	Matter	Water	Liquid	Molecule	3-space	Ap
1st	Molecular	Molecule	Solids	Matter	Earth	Solid	Molecule	3-space	Kshiti

Table of Subdivisions of Matter and Energy ©Dale Pond, 2014

Figure 7.8: Table of seven subdivisions or orders.

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/table-of-subdivisions.jpg>

⁸⁹[Compound Interetheric], [Subdivision], [Etheric Elements], [Magnetic Still Light]

7.13 Arithmetical and Geometric Progressions

XIV. “In this list 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:⁹⁰

1 : 3 : 9 : 27 : 81 : 243 ...
 1 : 3¹ : 3² : 3³ : 3⁴ : 3⁵...

7.14 Progressions of Orders

XV. “The arithmetical progression changes in the atomic orders to a geometrical progression as follows:

3 : 9 : 81 : 6561 : 43046721...
 3¹ : 3² : 3⁴ : 3⁸ : 3¹⁶...⁹¹

7.15 Infinite Range of Vibration

XVI. “This same method of progression is believed to hold in all the orders of vibrations above the molecular, and soon passes into mathematical infinity.

⁹⁰[Figure 8.14 - Some Basic Waveforms and their constituent Aliquot Parts]

⁹¹[Part 12 - Russells Locked Potentials] covering Russell’s [Locked Potentials], [Square Law].

Mode	Subdivision	Octave - Hertz	Controlling Law
Enharmonic <i>Centrifugal</i>	Molecular Intermolecular	1st - 21st octaves $1 \times 10^0 -$ 2.09715×10^6	Law of Oscillating Atomic Substances ⁹²
Harmonic <i>Cen- tripetal</i>	Atomic Interatomic	21st - 42nd octaves $2.09715 \times 10^6 -$ 4.39805×10^9	Law of Sonothermity ⁹³
Dominant <i>Controlling</i>	Etheric Interetheric	42nd - 63rd octaves $4.39805 \times 10^9 -$ 9.22337×10^9	Law of Oscillating Atoms ⁹⁴

Table 7.5: Mode Frequency Ranges

95

7.16 Progression Types

7.16.1 Arithmetic and Geometrical Progressions

Arithmetic Progression - In mathematics, an arithmetic progression or arithmetic sequence is a sequence of numbers such that the difference between the consecutive terms is constant.⁹⁶

Geometric Progression - In mathematics, a geometric progression, also known as a geometric sequence, is a sequence of numbers where each term after the first is found by multiplying the previous one by a fixed, non-zero number called the common ratio.⁹⁷

Linear Progression - In music, a linear progression (Auskomponierungszug or Zug, German: train, abbreviated: Zg.) is a passing note elaboration involving stepwise melodic motion in one direction between two harmonic tones.⁹⁸

Melodic Progression may be explored in “*Harmonies of Tones and Colours*

⁹⁶Wikipedia; Arithmetical Progression

⁹⁷Wikipedia; Geometric Progression

⁹⁸Wikipedia; Linear Progression

- *Developed by Evolution*⁹⁹ and *The Scientific Basis and Build of Music* by Ramsay¹⁰⁰

Music (vibrations and oscillations of a string) is linear arithmetic progression¹⁰¹ while energy expansion and contraction is volumetric with geometric progression¹⁰² as is described in Russell's Scale of Locked Potentials¹⁰³, the Square Law and Inverse Square Law.¹⁰⁴

7.17 Three Major Orders

XVII. “Actually, however, all matter of which we are capable of cognition through the medium of our senses¹⁰⁵ is in one of three forms of aggregation:

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

7.17.1 The above are not “things”

The above states constitute our sensorial world. They are not solely “things” but are also considered as states, phases, forms or dynamic structures resulting from specific combinations of the dynamic three modes of motion. Each state has a respective combination or proportion of the three modes. The higher three forms of aggregation are not perceptible to our senses and are therefore considered extrasensory, unseen, spiritual, subtle, scalar, non-classical, *etc.*

⁹⁹svpbookstore.com

¹⁰⁰svpbookstore.com

¹⁰¹[arithmetical progression]

¹⁰²[geometric progression]

¹⁰³[Scale of Locked Potentials]

¹⁰⁴[Progressive Evolution]

¹⁰⁵[Sense]

7.18 Controlling Mode

XVIII. “In each of which the controlling mode of vibration is respectively:

- I. The Enharmonic (entropy, dispersive) - controls Molecular
- II. The Harmonic (syntropy, attractive) - controls Atomic
- III. The Dominant (neutral, controlling) - controls Etheric

7.18.1 Modes combine in unique proportions

The above three modes combine in unique proportions to create orthogonal¹⁰⁶ stabilized centralizations of forces that have the appearance of seeming solid matter.

The following table is a supposition about the mixing of mode proportions in the 3rd and 4th columns for each aggregation. They seem reasonable but only bench testing will proven them out.

Aggregation	Governing Mode	Dominant Mode	Subservient Mode
Molecular	100 x Enharmonic	66 $\frac{2}{3}$ Harmonic	33 $\frac{1}{3}$ Dominant
Atomic	100 x Harmonic	66 $\frac{2}{3}$ Enharmonic	33 $\frac{1}{3}$ Dominant
Etheric	100 x Dominant	66 $\frac{2}{3}$ Harmonic	33 $\frac{1}{3}$ Enharmonic
Thirds	3	2	1
Proportion	9	6	3
Portion	Ninths	Sixths	Thirds ¹⁰⁷

Table 7.6: Hypothetical controlling Modes and Proportions

7.19 Modes as actual components

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

¹⁰⁶ideally speaking as is demonstrated in carbon [crystallization].

Considering an atom or molecule as a balanced dynamic of syntropic and entropic forces they must then by definition have these three component modes as essential to their existence. This concept is not unlike Buckminster's Tensegrity¹⁰⁸ idea.

7.20 Foundational Concepts

XX. “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.¹⁰⁹ (underline added)

7.20.1 Balance or Equation of Father-Mother Forces

This balance or equation of Father-Mother Forces¹¹⁰ is not a perfect balance where there is no motion. There is in all seeming solid and still matter a near imperceptibly tiny periodic motions Russell referred to as “Rhythmic Balanced Interchange”. Macvicar called this balanced periodic motion the cosmical Law of Assimilation¹¹¹. The range of motion of this periodic motion when considered as stable does not exceed 50% of the molecular dimension.¹¹² Conventional science refers to this natural residual vibration as vacuum fluctuations, quantum jiggle or Zero-Point Energy. [see **XXV** below]

“If access to the zero-point-energy (ZPE) reservoir is successful, one needn't worry about either depletion of this resource or creating an imbalance in the local environment. It is the electromagnetic equivalent of scooping cupfuls of water out of the ocean, with replacement occurring at the velocity of propagation of electromagnetic waves, the velocity of light. As to the ultimate

¹⁰⁸Wikipedia/Tensegrity

¹⁰⁹[Neutralization]

¹¹⁰[Father-Mother Principle]

¹¹¹[14.32 - Law of Assimilation]

¹¹²[AQUEOUS DISINTEGRATION - Snell]

origin of the ZPE, two views are discussed in the physics literature: one, that it is simply part and parcel of the energetic legacy that emerged with the Big Bang, and another that it is an energetic substratum the preceded even the Big Bang, with our universe emerging as the result of a giant vacuum fluctuation.¹¹³ In any case an argument can be made that it is sustained by a cosmological feedback cycle in which charged particles radiate due to their “quantum jiggle,” and the particles “jiggle” due to being caught up in the collective radiation of all the other particles, an electromagnetic equivalent of placing a microphone near a speaker and generating a squeal.”¹¹⁴

7.21 Latent Force

XXI “This is the foundation of Keely’s doctrine of ‘latent force’¹¹⁵, 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 matter.”

7.21.1 Matter is the result of three forces or modes of vibration

In SVP every form of matter is the result of three forces or modes of vibration that are balanced or equated to a determinable degree. Disturbing this balance or equation of forces liberates them - not the breaking of a solid appearing atom. Increasing syntropic force, for instance, will instantly evoke the Law of Cycles thereby causing transformation into intense dispersion (emission, radiation). Liberated entropy will instantly disperse. An example of this process of liberation is the well known atomic and nuclear detonations as seen in cavitation or implosion processes.

The use of these principles in atomic weapons is an extreme liberation of

¹¹³A third view is this persistent periodic motion is that which maintains the physical universe.

¹¹⁴H. E. Puthoff, “On the Source of Vacuum Electromagnetic Zero-Point Energy,” Phys. Rev. A, vol. 40, p. 4857,1989; Phys. Rev. A vol. 44, p. 3382,1991.

¹¹⁵[Latent Force]

the contained latent force within a very short time span. The designers' intent of such weapons is to get the biggest bang possible. In the real world we have no need of such gigantic liberations of energy. It is possible and desirable to perform smaller releases over longer periods of time such as is done with dissociation of water via electrolysis and similar means. In this case it would be prudent to use materials containing less latent energy on the molecular level and perhaps the atomic order. These releases of energy would be more than sufficient for most any application serving humanity's needs. Such liberations would be saner, simpler, safer, non-ionizing and sustainable.

Keely was able to release these forces in a gentle or violent manner depending on the stage of the Law of Cycles progression.

*“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.”*¹¹⁶

Water molecules (Keely's favorite medium for creating his all powerful and useful 'etheric vapor') can be easily dissociated in the molecular order with an electric current (AC or DC), X-rays, cavitation¹¹⁷, ultrasound¹¹⁸, microwaves¹¹⁹, radio waves¹²⁰ and even vacuum. This molecular dissociation liberates a gas composed of the atoms of Hydrogen and Oxygen. These as gases constitute the next higher level or order of being - the atomic level of being. This atomic level can be dissociated with an electric spark¹²¹ 'igniting' or rendering (dissociating) the atomic order into the next 'etheric' level or order being plasma; *i.e.*, flame made of ionized gases possessing great pressure as discordant radiating entropy mode preponderates. The process is more complicated than the above but you get the essential points. As humanity

¹¹⁶[Keelys Contributions to Science]

¹¹⁷[15.12 - Dissociating Water with Acoustic Cavitation]

¹¹⁸[15.09 - Dissociating Water with Ultrasonic Vibration - Puharich]

¹¹⁹[Dissociating Water with Microwave]

¹²⁰[15.08 - Dissociating Water with X-Rays - Radiolysis]

¹²¹But then what is a spark if not the electric stream preponderant with the individualizing (syntropic) mode? see [Spark], [Introductory Impulse]

masters these low levels of dissociation the higher levels liberating greater quantities of useful energy may be accessed.

It was this etheric vapor under immense pressure derived from dissociated water that Keely had intended to use to power his original Keely Motor. After designing and building over 120 models and 30 years of effort he gave up on that approach when he discovered the etheric vapor is not the *source* of power but instead is a *carrier*¹²² of the force he wished to liberate.



Figure 7.9: Keely Motor activated by slow released etheric vapor

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/keely-motor.jpg>

There was one instance where Keely did use this etheric vapor under immense pressure and released or liberated quickly was in his etheric cannon¹²³. He demonstrated this cannon on many occasions and once before the US Navy at Sandy Hook Naval Yard, New Jersey. The Navy turned it down because they thought the mechanism “too complex”.

¹²²[connecting link]

¹²³[cannon]



Figure 7.10: Keely's cannon fired by quick release of etheric vapor
 Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/etheric-cannon.jpg>

7.21.2 Latent Force, Keely

“With our present [1880s] knowledge,” writes Mr. Keely, *“no definition can be given of this latent force; which, possessing all the conditions of attraction and repulsion associated with it, is free of magnetism. If it is a condition of electricity, robbed of all electrical phenomena, or a magnetic force, rebellant [sic] to the phenomena associated with magnetic development, the only philosophical conclusion I can arrive at is that this indefinable element is the soul of matter¹²⁴. Were not every form of matter, even to the cerebral convolutions of the brain, impregnated with this latent element of force, which is sympathetically subservient to celestial radiation, nature would be like a still-born child, or a marble statue - dead to the sympathetic association that induces motion. Matter could not exist without this element, this spiritual essence, this impregnation from the Deity, which is its Soul, any more than a man with an ossified brain could have motion or life.”¹²⁵*

This new higher state liberated energy, not having any detectible magnetism or electricity, must by definition be a higher subtler subdivision than the atomic or etheric orders of being both having these two attributes. These new subdivisions then would be the sub-quantum levels of light (photonic) and finer quantum divisions such as quarks, gluons, *etc.*

¹²⁴[Soul of Matter]

¹²⁵[What Electricity Is - Bloomfield Moore]

7.22 Sympathy and Resonance

XXII. “Insomuch 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 (*i.e.*, entanglement, bonding, coupling or love); and it is through the study of the methods of increasing or diminishing¹²⁶ this sympathy that we reach practical results in this field of research. At present this is best accomplished by resonance¹²⁷; that is, through the harmonic vibrations created by musical instruments (or signal generators), bringing out the acoustic world as the microscope reveals the hidden visual world.

7.22.1 Attraction and a Repulsion between all things

There exists, by virtue and attributes of harmonic vibrations or sympathy (acoustic entanglement), an attraction and a repulsion between all things. The nature of this attraction and repulsion is discussed in ‘Chapter 2 - Love in Science and Physics’. This sympathetic association can be modified at will according to the Law of Sympathetic Association.¹²⁸ Keely referred to this process as ‘Disturbance of Equilibrium’¹²⁹ where he disrupted the harmonic equilibrium thus exciting the dynamics of balanced systems. Centralized forces in a state of coincidental harmony contain Latent Force¹³⁰. The quantity of that Latent Force is determined by the subdivision or order of the material. This force is liberated into an useable force by an outside acoustic disturbance upsetting that balance. This would be not unlike a frequency and amplitude modulation (FM and AM) of existing chordal (complex frequency) patterns.

¹²⁶[Disturbance of Equilibrium]

¹²⁷established with sympathetic vibration or oscillation, see [Law of Force]

¹²⁸[Bjerknes Effect], [Love in Science and Physics], [Three Laws of Being], [Law of Assimilation]

¹²⁹[Disturbance of Equilibrium]

¹³⁰[Latent Force]

7.23 Matter composed of Molecules

XXIII. “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”.

‘Neutralized attraction’ is where the two forces of syntropy and entropy are equated to a balanced state or condition. A stable molecule has such a center of neutralization of forces and every molecule, according to Keely, whether singularly or in a larger mass have this distinction. Disturbance of one molecule of such a mass is disturbing all molecules of the mass. Disturbance is accomplished with an ‘exciter’¹³¹ being an acoustic pulse¹³² possessing certain characteristics such that it is received and re-modulates the molecule into a discordant condition.

7.23.1 Attraction is an effect of Syntropy

We now know that attraction is an effect of syntropy which is an effect of sympathetic association or harmonized frequencies or unisons. Syntropy unopposed is pure active attraction or affinity. “Neutralized Attraction” then would be syntropy balanced by entropy when the rates of vibration or oscillation form an unison with the fundamental or harmonics.¹³³

Regarding attraction or bonding as an effect of harmonized vibrations and oscillations is decidedly different than force carrier particles. The first condition is a dynamic condition of the forces involved in the interaction. The second is an isolationist viewpoint requiring an unnecessary additional player on stage. Although a unit measure of attractive force - a quantum (least measure or quantity such as a gluon) of attractive force - could be assigned to these entities for mathematical purposes which I feel is how all this quantum business got started in the first place.

¹³¹[Exciter]

¹³²or any other frequency within the three main modes

¹³³[Law of Attraction], [Bjerknes Effect], [Law of Sympathetic Oscillation], [Law of Force], [Law of Chemical Affinity] and [Voiding]

7.24 Molecules are sensitive to modes

XXIV. “These molecules have been experimentally proved by Keely to be formed 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 (chords).¹³⁴

An example of a ‘compound concordant impulse’ would be a musical triplet of say C, E and G sounded together with a sharp attack and little decay within its signature envelope. Logic indicates at least one of those frequencies is concordant with natural tones (eigenfrequencies) of the target molecule. In which case power from the exciter chord is added (sympathetic and syntropic addition) to the molecule thus offsetting its original concordant equation of forces or balance.

7.25 Oscillations of Molecules

XXV. “When in that state of neutral aggregation which we know as matter^[11], each molecule is in perpetual oscillation, the range of the oscillation being one-third of the molecule, and its rapidity 20,000 oscillations in a second.¹³⁵

This has always been a curious statement - that all molecules oscillate about their center at a fixed rate of 20,000 Hz. Why hasn't this been found by conventional science? Perhaps it has but I've not found any reference to it (yet). In today's world there are countless types of molecules and many of them are artificial such as are found in plastics and new metal alloys. Does this statement apply to all of them? One would presume - to err on the safe side - that Keely is referring to naturally occurring molecules. That would be a big and perhaps dangerous assumption...¹³⁶ Nevertheless it is something to explore. The effort may be well worth it.

¹³⁴see XXVI, [Law of Force], [Law of Chemical Affinity], [15.18 - Keely's Process for Liberating Ether from Water]

¹³⁵[Molecular Dissociation]

¹³⁶see section '6.5 Frequency' where frequency of oscillation is twice the ordinary count.

7.26 Disturbance of Equilibrium

XXVI. “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^[11]. This he does by striking the same chord in three octaves, representing the third, sixth, and ninth of the scale.¹³⁷

The above quote is the beginning of the description of how Keely modulated the eigenfrequency or chord of the mass¹³⁸ being acted upon. The following sections give insight into how he approached and did this using the thirds, sixths and ninths of a scale constructed upon the tonic or fundamental of the mass being acted upon using the quantization method¹³⁹. Here lies perhaps one of Keely’s greatest secrets - the application of the much verbalized “3, 6 and 9” so often attributed to Tesla¹⁴⁰. Somewhere I read Tesla stated he had figured out Keely’s secret. This may be the secret he referred to. I do not have that quote nor a link to the original material.

In music theory intervals are expressed as ratios. In standard music theory there are Major and Minor Thirds and Keely does not specify which. Normally a Major Third is considered as the quantity 5:4. Translated this quantity is the fundamental frequency divided by 4 which quotient is then multiplied by 5 gives the frequency of a Major Third. A Minor Third is considered as the quantity 6:5. Translated this quantity is the fundamental frequency divided by 5 which quotient is then multiplied by 6. The same treatment applies to all music intervals.

These intervals form a three tone chord (musical triplet) when sounded simultaneously. Multiply each of these frequencies by two and four creates Keely’s Triple Triplet¹⁴¹ of ‘*same chord in three octaves*’.

¹³⁷[Triple Triplet], [Triple Triplet Flows], [Inversion]

¹³⁸[chord of the mass]

¹³⁹[Quantization - SVP]

¹⁴⁰[14.35 - Teslas 3 6 and 9]

¹⁴¹[Triple Triplet Flows], [Triple Triplet]

Interval	Ratio
Minor Third	6:5
Major Third	5:4
Minor Sixth	8:5
Major Sixth	5:3
Augmented Sixth	125:72
Minor Ninth	32:15
Major Ninth	9:4

Table 7.7: Thirds, Sixths and Ninths Intervals

7.26.1 Disturbance of Equilibrium, Gravity

“Disturbance of equilibrium, like gravity, is inherent, an eternal existing force.”¹⁴²

It is possible these two phases, gravity and disturbance of equilibrium, are simply the two opposite poles of matter, the physical Universe, the positive and negative poles of matter, controlled by the third or controlling principle, the Universal Will.

“Unstable equilibrium, like gravity, is a condition born in each neutral center at the time of birth, and thus designed by the Architect as the connective link¹⁴³ between the “dispersing positive”¹⁴⁴ and the “attractive negative.”¹⁴⁵ The action inducing this “link” I call “sympathetic planetary oscillation”.

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

“In his (Keely’s) experiments of aqueous disintegration¹⁴⁶ disturbance of equi-

¹⁴²[13.12.1 - Disturbance of Equilibrium]

¹⁴³[Connecting Link]

¹⁴⁴[Radiation]

¹⁴⁵[Contraction]

¹⁴⁶[Aqueous Disintegration]

*librium was brought about by using mediums of differential gravity in the disintegrator*¹⁴⁷, *air as one, water as the other.*¹⁴⁸

Forces are held in a dynamic state of equilibrium, a neutral state, until disturbed by an excitation or stimulation. Adding either harmonic (syntropy) or enharmonic (entropy) excitations will evolve into opposite conditions either attraction or repulsion. This dynamic holds true on all subdivisions. On the lower subdivisions these disturbances must be sympathetic to that being stimulated which is to say acoustic waves or pulses. On the higher etheric subdivisions a sympathetic excitation would be the "infinite exciter" as thought or a form of thought such as desire, intent, etc.

Matter is not directly created by these incoming sympathetic streams. The incoming etheric (celestial) streams impact (bombard) a Neutral Center which differentiates them and matter results from the effects of this impact or antagonism developing summation and difference modulations (tones) during its progressive evolution into being. The incoming excitations need not be all frequencies as countless frequencies may develop during the impact or antagonism. Any tone instantly generates an overtone series. These secondary and tertiary partials or tones spring into existence the instant any tone is sounded. These many tones are effects of the one causative tone and cannot be separated from their cause. They are entangled everywhere experiencing summation and difference modulations (tones) originating from everywhere. Each experience is of course unique because of local influences or modulations.

7.27 Sixths induces Neutral Radiation

XXVII. "Of these, the sixth reduces 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".

¹⁴⁷[disintegrator]

¹⁴⁸[Snell Manuscript]

7.27.1 Seeming Paradox

The first part of the first sentence of XVII appears to contradict the second part of the same sentence thus creating a seeming paradox. However, the two sentences taken together illustrate quite clearly the function and dynamics of the Law of Cycles, said dynamics elsewhere discussed.

“Experiment shows that molecular dissociation does not take place until the molecule attains an oscillation approaching, if not fully reaching two-thirds 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 been disturbed by an “introductory impulse”; that is, by the musical note¹⁴⁹ above mentioned.

7.27.2 Exciting the Molecular Mass

First excite the molecular mass with a strong pulse, then continue this disturbance at resonance with its natural eigenfrequency (chord of mass) until a certain amplitude of oscillation occurs where dissociation takes place. These quantities of applied excitation (amplitude, duration, attack, sustain and decay) could be determined through experiment.

7.28 Third is the Dominant

XXIX. “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.

7.28.1 Harmonic Resonant Impulse

“harmonic resonant impulse” means an impulse that is harmonic (in tune with; *i.e.*, sympathetic) not unlike a singer singing the correct pitch that is in synch or establishes a chord of resonance¹⁵⁰ with that of a wine glass to

¹⁴⁹a musical note is a specific pitch in mathematical relationship with other pitches.

¹⁵⁰[Chord of Resonance]

be shattered. Also called “*resonant impulse*”.¹⁵¹

Of course Brinton/Keely is talking about none other than transmuting the mass being experimented upon whether that be water or some other molecular substance - ‘*transform the mass either into its component initial forces, or into some other form of matter*’. ‘Component initial forces’ means liberating these awesome atomic forces whether slowly or instantly. Of course the slower the liberation the better.

“*Matter is bound up energy and energy is liberated matter.*” Keely, 1893

It is astonishing these ideas were first published in 1894 well before orthodox science acknowledged splitting the molecule or atom was even possible. Not only does Keely say this is possible but he says how to do it and that he had been doing it for some years already prior to 1894. Realizing the above it is obvious why no one in Keely’s day had any idea what he was doing. In Keely’s ‘Ultimate Constitution of Matter and Action of Force Regulating its Phenomena’¹⁵² he lays out the basic concepts of matter, force and their interactions such as converting one into the other.

7.29 The Dominant or Etheric Mode

XXX. “It is the study of the dominant¹⁵³ 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.

7.29.1 Etheric Current

The etheric (Dominant) current is the controlling medium in the triune flows.¹⁵⁴ It is the switch or regulator that actuates the power of the other two currents or forces thus disturbing the triune balance. The key phrase in the above is ‘*control the power he evolves*’ indicating he doesn’t want an all at once release as in a destructive explosion.

¹⁵¹[Law of Transformation of Forces], [Transmutation]

¹⁵²[[7.9 - Ultimate Constitution of Matter and Action of Force Regulating its Phenomena.]

¹⁵³[Dominant]

¹⁵⁴Keely’s [Three Modes of Vibration] for range of frequencies of the etheric current, One Universal Controlling Medium

7.30 Centers of Harmonized Vibration

XXXI. “As all molecules and masses are mere centers of harmonized vibrations,^[9] temporarily held in suspension by simple Laws¹⁵⁵ 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.¹⁵⁶

See the above sections and subsections describing this equilibrium and its disturbance. The idea that the control of the forces of a molecule can be addressed via the molecule’s center of balanced forces represents a major diversion from conventional thought. It is far easier to modulate this center of balanced forces than any other condition of motion of a molecule be it electrons or atoms forming part of the molecule. The point or center of balance of forces is not unlike that point in a child’s swing when the highest or furthest point of motion is reached and all motion stops for an instant then reverses direction. This point coincides with Russell’s Zero Plane of Inertia¹⁵⁷. This instant of depolar non-motion is where the kinetic out swing and in swing are neutralized (conjugated, sum to zero) and energy of the system becomes latent (potential). At this point it is easiest to add additional outside power to maintain or increase motion. It is the optimum point of modulation. Attempting to add power at other points of the swing are either impossible or difficult.

7.31 Sympathetic Outreach (sympathy/resonance field effect)

XXXII. “It is a familiar fact that a cord in vibration tends to produce a similar vibration in a cord placed near it.¹⁵⁸ 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

¹⁵⁵[Keelys forty laws]

¹⁵⁶[Disturbance of Equilibrium], [DISTURBANCE OF EQUILIBRIUM - Snell], [13.12.1 - Disturbance of Equilibrium], [7.1 - Matter is centralized motion]

¹⁵⁷[Plane of Inertia]

¹⁵⁸[Sympathetic Oscillation], [Tuning Fork]

is called ‘the sympathetic outreach’¹⁵⁹ of the current or flow.”

Sometimes the effects of this property are referred to as “entrainment”¹⁶⁰ (sometimes as “coupling”¹⁶¹) as in the case where multiple oscillating mechanisms will synchronize their motion in and over time. The linking between mechanisms in sympathetic oscillation¹⁶² is referred to as the “connecting link”¹⁶³ or the unseen etheric communication mechanism spanning space and time. This connecting link is the purveyor of so-called “spooky action at a distance”¹⁶⁴. These sympathetic properties can be quantified and therefore engineered. They have for instance an “outreach” or ‘field effect’ that can likewise be quantified and engineered. This outreach or field effect is an extension of sympathy from the mass and affects other masses within reach of its field effect depending on the degree of sympathetic vibration or oscillation of other nearby masses. Degrees of sympathetic association can be determined by the degree of harmony or discord in their respective chord of mass (vibration or oscillation signature). This property is governed by the Law of Sympathetic Oscillation¹⁶⁵.

7.32 Etheric Outreach

XXXIII. “In this manner we have ‘sympathetic negative attraction’, and ‘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.”¹⁶⁶

The effect of this field or outreach can be either attractive or repulsive on nearby objects according to the degree the creative and receptive chords are harmonic or enharmonic with each other.¹⁶⁷ The outreach or field effect of the etheric current is as mentioned above the connecting link between masses.

¹⁵⁹[Sympathetic Outreach]

¹⁶⁰[Entrainment]

¹⁶¹[Coupling]

¹⁶²[sympathetic oscillation]

¹⁶³[connecting link]

¹⁶⁴[action at a distance]

¹⁶⁵[Law of Sympathetic Oscillation]

¹⁶⁶[Sympathetic Transmission], [Subdivision]

¹⁶⁷[Law of Force]

This condition of synchronous motions is described in the

7.32.1 Law of Transmissive Vibraic Energy

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

Scholium: *“All forms of transmissive energy¹⁶⁸ can be focussed, reflected, refracted, diffracted, transformed, and diminished in intensity inversely as the square of the distance from the originating source.”*

These “outwardly propagating waves” can be in harmony or discord with other masses creating sympathetic resonance. If the waves from the masses are in tune or harmonic they will be attracted to one another. If they are discords the masses will be repelled. These tendencies and motions of attraction are governed by the laws of attraction¹⁶⁹ and repulsion¹⁷⁰. If these waves are in harmony the masses are then ‘coupled’ sympathetically and what occurs to one occurs to the other. They become *as one*.

7.32.2 Etheric vibration is the cause of sympathetic association

Etheric (quantum) vibration is the cause of Sympathetic Association, Sympathetic Vibration and Sympathetic Oscillation also known as Entanglement, Coupling, Quantum Entanglement, *etc.*. This etheric vibratory force¹⁷¹ can be either syntropy (sympathetic negative attraction) or entropic (sympathetic positive propulsive). This phenomena may also be related to Russell’s lens¹⁷² idea.

¹⁶⁸[Law of Force]

¹⁶⁹[Law of Attraction]

¹⁷⁰[Law of Repulsion]

¹⁷¹[Etheric Vibration. - The Key Force]

¹⁷²[Figure 3.4 - Focalizing Lenses at nested Cube faces]

7.33 Chord of Mass

XXXIV. “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.”

7.33.1 Qualifiers

The above sentence (XXXIV) contains several qualifiers:

1 - “*Each molecule of a given mass of matter*” - each and every molecule of a specific mass. Therefore a given mass has a single chord being the same as each molecule participating in that mass.

2 - “*same harmonic chord or note in its oscillatory motion*” - to the degree of syntropy the molecule/mass is (*i.e.*, represented by a musical note or pitch) in the mass oscillatory (translation) motion, NOT it’s internal vibration.

3 - The chord of mass¹⁷³ is of course the vibration or oscillation signature, a collection of the fundamental and all partials resulting from that fundamental as per the Law of Harmonic Pitch.

7.33.2 Law of Harmonic Pitch

“*Any aggregate in a state of vibration develops in addition to its fundamental pitch a series of vibration in symmetrical sub-multiple portions of itself, bearing ratios of one, two, three, or more times its fundamental pitch.*”¹⁷⁴

7.34 Controlling Chord of Mass

XXXV. “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 induction¹⁷⁵, if we would gain command of the molecular forces.”

¹⁷³[chord of mass]

¹⁷⁴Keely, 1894

¹⁷⁵[resonant induction]

7.34.1 Equilibrium or Balance cannot exist

The states or conditions of equilibrium or balance cannot exist in the material world of seen effects as every thing or force is in perpetual transformation because of the ever present Law of Cycles and the Law of Transformation of Forces. Everything is always in motion as motion is Life activity a resultant of dynamic polarity of force and energy in their perpetual and persistent efforts to void.

7.34.2 Law of Cycles

“Coherent aggregates harmonically united constitute centers of vibration bearing relation to the fundamental pitch not multiples of the harmonic pitch, and the production of secondary unions between themselves generate pitches that are discords, either in their unisons, or overtones with the original pitch; from harmony is generated discord, the inevitable cause of perpetual transformation.”¹⁷⁶

7.34.3 Table of Transformation over Time

The table, titled "Table of Transformation", is a complex grid with multiple rows and columns. It contains various scientific and philosophical terms and laws, such as "Law of Attraction", "Law of Repulsion", "Law of Cycles", and "Law of Transformation". The text is small and dense, with many terms in italics. The table appears to be a reference or index of concepts related to the laws of being and transformation.

Figure 7.11: Table of Transformation of Forces over Time
 Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/Table-of-Transformation300.jpg>

¹⁷⁶Keely, 1894

7.34.4 Law of Transformation of Forces

“All forces are different forms of Universal Energy unlike in their period-frequency, merging into each other by imperceptible increments; each form representing the compass of 21 octaves. Each form or pitch may be transformed into an equivalent quantity of another pitch above or below it in the scale of 105 octaves. The transformation can occur only through its static effect, developing vibrations of harmonic pitches above or below their fundamental vibration, or developing with juxtaposed aggregates, resultant and difference, or third order, as the case may be.

Scholium: *“A table of the intervals and harmonics of the normal harmonic scale will indicate the ratios in which the transformation of forces will occur.”*¹⁷⁷

7.35 Harmonizing Chord of Mass

XXXVI. “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.”¹⁷⁸

It is not known what this mechanical device is, specifically. It is presumed by this writer this device is the Trexar¹⁷⁹ and similar wires Keely made with specific proportions of specific metals. These wires appear to have the property of superconductivity at room temperature. See section 7.37 below.

7.36 Molecular Oscillation

XXXVII. “The range of molecular oscillation is affected differently in different substances when submitted to the same vibratory impulse, and these ranges can be measured.”

Again, more careful bench work is called for to determine these effects or modulations.

¹⁷⁷Keely, 1893

¹⁷⁸[Chord of Mass], [Keelys Mechanical Inventions and Instruments], [MECHANICAL INVENTIONS AND INSTRUMENTS]

¹⁷⁹[Trexar], [Trexnonar]

7.37 Transmitting Concordant Impulses

XXXVIII. “In the three metals, silver, gold, and platina, we obtain the proportions - 3 : 6 : 9 - As this is the primary relation of the modes of vibration, a wire^[8] made of these three metals is peculiarly adapted to transmit concordant impulses; and nodes made of these substances placed upon a wire, transmitting resonant vibrations, indicate, by the different orders of vibration induced in them, the rate of oscillations of the atomic constituents.”¹⁸⁰

The first part of the above concerning transmission of concordant impulses is determined by the

7.37.1 Law of Vibrating Atomolic Substances

“Atoms are capable of vibrating within themselves at a pitch inversely as the Dyne (the local coefficient of Gravity), and as the Atomic volume, directly as the Atomic weight, producing the creative force (Electricity), whose transmissive force is propagated through atomolic solids, liquids, and gases, producing induction and the static effect of magnetism upon other atoms of attraction or repulsion, according to the Law of Harmonic Attraction and Repulsion.”

Scholium: *“The phenomenon of Dynamic Electricity through a metallic conductor and of induction are identical. In a metallic conductor, the transmission is from atom to atom, through homologous interstices, filled with ether, presenting small areas in close proximity. In crystalline structures, heat, which expands the atoms, by twisting them produces striae, increases the resistance, etc. Between parallel wires and through air the induction takes place from large areas through a rarefied medium composed of a mixture of substances, whose atoms are separated by waves of repulsion of various pitches, discordant to electric vibrations; the said atoms sympathetically absorb the vibrations and dissipate from themselves, as centers, concentric waves of electric energy which produces heat and gravism¹⁸¹.”¹⁸²*

The second part of the above concerns measuring frequencies. The exact

¹⁸⁰[Trexar], [Law of Force], [Law of Chemical Affinity], [Disturbance of Equilibrium]

¹⁸¹[gravism]

¹⁸²Keely, 1894]

method of this detecting process is not known. Below are some frequencies apparently detected using this or a similar method.

7.37.2 Frequencies of the Modes

“He [Keely] mentions the following frequencies, measured in sound colors¹⁸³:

Molecular frequency

inducted in homexar¹⁸⁴ by harmonic thirds, 100,000,000, [100 MHz]

that inducted by enharmonic sixths, 300,000,000, [300 MHz]

that induced by diatonic ninths, 900,000,000, [900 MHz]

that inducted by dominant etheric sixths, 8,100,000,000, [8.1 GHz (microwave)]

that inducted by interetheric ninths, 24,300,000,000. [24.3 GHz (microwave)]

In the trexar¹⁸⁵ the ‘*compounding of the triple triple*¹⁸⁶ *will give a frequency from the ninth node that, set down, would make a string of figures a mile long.*’¹⁸⁷

7.38 Vibratory Rotation

XXXIX. “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 $33 \frac{1}{3} : 100.$ ”¹⁸⁸¹⁸⁹

7.38.1 Microwaved Radiometer

According to the listing of frequencies above (7.37.2) microwaves were part of Keely’s vibratory tool box. Today we have ready access to these frequencies.

¹⁸³[music note or sound colors]

¹⁸⁴[Homexar]

¹⁸⁵[Trexar]

¹⁸⁶[Triple Triplet]

¹⁸⁷from [VIBRATIONAL FREQUENCIES]

¹⁸⁸see ‘7.7.2 Relations of Thirds’

¹⁸⁹see ‘Chapter 10 - Proportions (Ratios) of Relative Values’

For instance the effects of these waves can be readily seen by placing an ordinary radiometer or even a typical incandescent light bulb into a typical high power kitchen microwave oven. The radiometer vanes in such an environment and under microwave excitation spin too rapidly to see. The incandescent bulb flashes brilliantly white light. The effects are quite dramatic when these ‘dominant’ waves interact with the ‘enharmonic’ or molecular/atomic elements within these bulbs.

Experiment: A microwaved radiometer (with sufficient power) rotates at high velocity, flashes brilliantly and gets very hot very quickly. ‘Enharmonic’ or molecular/atomic elements are Argon gas, metal of vanes, black and white coatings. Each of these has their own vibration frequency and figure into the process.

7.39 Rotation

7.39.1 Medium for inducing 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 impulse¹⁹⁰ of a few pounds, on such a device, to cause it to run for centuries. In the conception of my vibratory engine¹⁹¹, I did not seek to attain perpetual motion¹⁹²; but a circuit is formed that actually has a neutral center, which is in a condition to be vivified by my vibratory ether¹⁹³, 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 circuit¹⁹⁴ which makes it so. Still, with all its perfection, it requires to be fed with the vibratory ether¹⁹⁵ to make it an independent motor. . . .”¹⁹⁶

¹⁹⁰[introductory impulse]

¹⁹¹[Compound Vibratory Engine]

¹⁹²[perpetual motion]

¹⁹³[etheric vapor]

¹⁹⁴[The Operation of the Vibratory Circuit]

¹⁹⁵[Vibratory Ether]

¹⁹⁶Keely, [Keely and His Discoveries], [More Science]

7.39.2 Keely on Rotation

“Rotation arises from the harmonic interaction of the dominant and enharmonic modes of vibration, which are in the ratio of 3:9.” [see **XXXVIII**]

“Harmonic interaction”; where the frequencies of the dominant and enharmonic are harmonized or made coincident.¹⁹⁷

Keely is here referring to the dynamics operating in and through his globe motor¹⁹⁸ or Dynasphere¹⁹⁹ which was his experimental base or model to demonstrate and prove out his theories on vibratory rotation and power development. It was in this design he first began to use his etheric vapor as a carrier²⁰⁰ of these higher rotating vibratory forces herein explored.

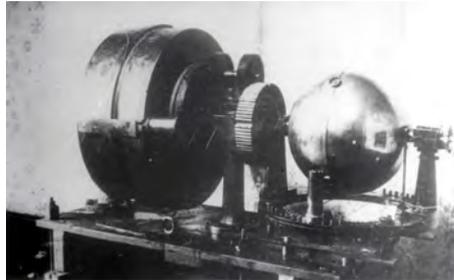


Figure 7.12: Globe motor actuated by rotary vibratory dynamics

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/keely-globe-motor.jpg>

¹⁹⁷[Figure 9.4 - Radiation and Absorption interactions with Neutral Center]

¹⁹⁸[globe motor]

¹⁹⁹[Dynasphere]

²⁰⁰[connecting link]

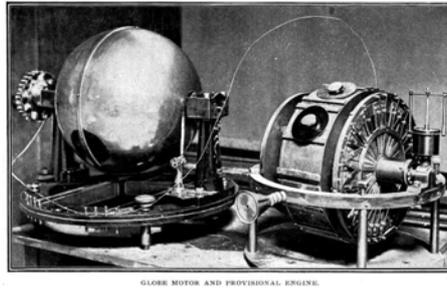


Figure 7.13: Keely's globe motor and provisional engine
Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/globe-motor.jpg>



Figure 7.14: Keely and his globe motor or dynasphere
Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/keelyn.jpg>

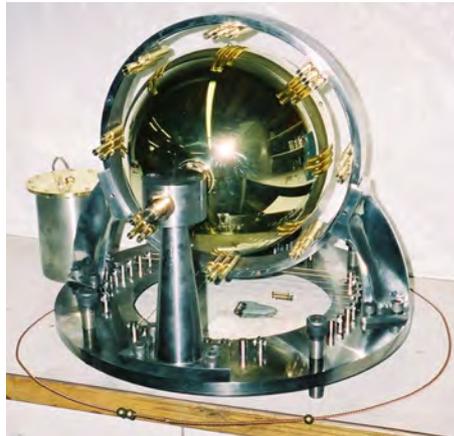


Figure 7.15: Pond's replication of the globe motor or dynasphere

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/altea.jpg>

7.39.3 Power of Rotation

“Power of rotation comes on the positive power of negation, arising when the receptive flows become independent of the circular chord of resonance²⁰¹ (set up mechanically or otherwise) breaks up the rotational power. Rotation is caused by the receptive concussion of the positive and negative forces as they come together at the neutral center and as each seeks its “coincident” by harmonic waves, flows or streams.”²⁰²

I - Two concepts here:

A: Power of Rotation (torque)

“Power of rotation comes on the positive power of negation, arising when the receptive flows become independent of the circular chord of resonance (set up mechanically or otherwise) breaks up the rotational power.”

B: Rotation itself. (rotary motion)

²⁰¹[Figure 20.13 - Two Rings - Outer and Inner]

²⁰²[Keely; [Snell Manuscript], PHILOSOPHY OF TRANSMISSION AND ROTATION OF MUSICAL SPHERE]

“Rotation is caused by the receptive concussion of the positive and negative forces as they come together²⁰³ at the neutral center and as each seeks its ‘coincident’²⁰⁴ by harmonic waves, flows or streams.”

7.39.4 Receptive Transmittive Concordance induces Rotation

“Every body capable of rotation is susceptible to the operation of force, which, applied, impels motion. Receptive transmittive concordance²⁰⁵ induces rotation. This simply means - the reception of streams of energy by the neutral center, and the transforming of them into radiant outflowing streams of energy causes rotation of the molecule or mass. All the magnets in the world, no matter how differentiated cannot induce rotation, but polar negative attraction²⁰⁶ induces rotation. The earth’s rotation is caused and kept in continuance rotation by the action of the positive and negative sympathetic celestial streams²⁰⁷, that is, by the inflowing celestial²⁰⁸ from the sun and the outflowing radiant celestial dispersing this same energy to all planetary masses in space.”²⁰⁹²¹⁰

7.39.5 Polar and Depolar Differentiation result in Motion

“Polar and depolar differentiation²¹¹ result in motion. The compound interetheric or seventh subdivision is the Soul of Matter²¹², from which all

²⁰³syntropically and [Law of Cycles]

²⁰⁴[VIBRATIONAL COINCIDENTS]

²⁰⁵[receptive transmittive concordance]

²⁰⁶[polar negative attraction]

²⁰⁷[sympathetic celestial streams]

²⁰⁸[celestial]

²⁰⁹[Law of Cycles]

²¹⁰[Keely; [Snell Manuscript], PHILOSOPHY OF TRANSMISSION AND ROTATION OF MUSICAL SPHERE]

²¹¹[differentiation]

²¹²[Soul of Matter]

*forms of matter receive their introductory impulse.*²¹³”²¹⁴

Polar and depolar is Keely’s way of saying having two poles (as in a magnet or electric circuit) or not.

7.39.6 Neutral Center or fulcrum represents Focalization

*“The neutral center (fulcrum) represents focalization (of syntropic forces) and distribution of the streams of (entropic) energy. It is not associated with magnetism. When the radiant elements generated by the focalizing chord are submitted to compound vibration of their mass thirds, those radiant elements become magnetic and rotation ceases. Rotation is induced by submitting the mass to three different orders of vibration simultaneously, giving the majority to the harmonic third.”*²¹⁵

7.39.7 Rotation of the ether produces condensation

*“When we rotate a mass with sufficient rapidity, the particles of that mass ultimately overcome cohesion by dispersing as fragments at a tangent but should we cause rotation of the ether, this would produce condensation, which is opposite in effect. This condensation effect increases with the velocity of rotation of the ether. This is the direct cause of formation of molecules as well as planetary masses.”*²¹⁶

The above describes the difference between centrifugal (dispersive) and centripetal (attractive) forces. The first belongs to the molecular and atomic domains or orders while the latter is a function of the etheric order or domain. In this we can see when the etheric is the exciter rotation of the molecular results - when proponderance is given the etheric order or third.

²¹³[introductory impulse]

²¹⁴[Keely; [Snell Manuscript], PHILOSOPHY OF TRANSMISSION AND ROTATION OF MUSICAL SPHERE]

²¹⁵[Keely; [Snell Manuscript], PHILOSOPHY OF TRANSMISSION AND ROTATION OF MUSICAL SPHERE]

²¹⁶[Keely;[Snell Manuscript], PHILOSOPHY OF TRANSMISSION AND ROTATION OF MUSICAL SPHERE]

7.39.8 Controlling “negative attractive”

“To control rotational force or produce commercialized energy, we must control through its properties the ‘negative attractive’ or ‘enharmonic’ current. This will solve the problem up to any limit of power.”²¹⁷

7.39.9 Testing Positive and Negative Rotation

“At the same time Keely was completing his third system²¹⁸, he was also completing an experimental sphere in which he intended to test the combination of the positive and negative rotation. This experiment was at least entirely successful which showed the explanation of rotation given above, to be correct. The sphere even rotated with physical vibrations from the positive and negative interchange of positive and negative waves - not streams in this case. He had a desperate struggle in seeking to learn these laws of polarization and depolarization²¹⁹. It was necessary for him to understand these laws before he could unfailingly secure rotation and control the reversions²²⁰ which so often had made wrecks of his machines.”²²¹

7.39.10 Russell on rotation

“Mass is an accumulation of the universal constant of energy²²² into higher potential. The greater the mass the greater the potential. Mass accumulates inductively along the centripetal lines of closing spirals, and is rotated by the impact of genero-active force. Mass dissipates conductively along centrifugal lines of opening spirals, and is rotated by the expulsion of radio-active²²³ force. These opposite forces are the cause of rotation of mass.”²²⁴

²¹⁷[Keely; [Snell Manuscript], PHILOSOPHY OF TRANSMISSION AND ROTATION OF MUSICAL SPHERE]

²¹⁸[Keelys Three Systems]

²¹⁹refers to the Laws of Being herein explained

²²⁰[reversion]

²²¹[Snell Manuscript]

²²²[universal constant of energy]

²²³[radio-active]

²²⁴Russell, [The Universal One]

7.40 Controlling negative attraction

XL. “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 attractive²²⁵ or enharmonic current²²⁶ of the triple flow, and the problem is then solved up to any limit of power.”

End of Brinton article.

7.41 Notes

[1] Also called Circular wave, Curl, Love Wave, Lamb Wave, Surface wave, Etheric. *“Power of rotation comes on the positive and power of negation, arising when the receptive flows become independent of the circular chord of resonation (set up mechanically or otherwise) breaks up the rotational power.”*²²⁷

[Rayleigh Wave]²²⁸

[Vortex]²²⁹

[2] Also called Compression wave. *“The vibratory velocity governing the magnetic flow ranges from 300,000 to 780,000 per second and comes under the first interatomic. This is the first order above odor and permeates the molecules of glass in the compass cover as air passes through a sieve. Being governed by the full harmonic chord this flow moves in straight lines free from molecular interference.”*²³⁰ ... *“when free of this differentiation are in straight lines.”* see [Discordant]

[Figure 8.3 - Coiled Spring showing Longitudinal Wave]

²²⁵[negative attractive], [Sympathetic Negative Attraction]

²²⁶[Enharmonic]

²²⁷[ROTATION - Snell]

²²⁸[Rayleigh Wave]

²²⁹[Vortex]

²³⁰[MAGNETIC ENGINE - Snell]

[Longitudinal]
 [Longitudinal Wave]
 [Longitudinal Waves in Vacuum]

[3] *“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 tortuous and zig-zag;”* see [Discordant]

[Figure 8.4 - Transverse Wave]

[transverse]

[Transverse Wave]

[4] Wave Field]

[12.05 - Three Main Parts of a Wave]

[12.09 - The MINUS side]

[12.08 - The PLUS side]

[Figure 2.12.1 - Polarity or Duality]

[Figure 15.03 - Opposing Forces of Gravity and Radiation]

[7B.16 - Polarity], [Principle of Polarity]

[5] Artwork by [Jeremy Pfeffer] et al.

[6] [The Seven Subdivisions of Matter and Energy], [VACUUMS FROM VIBRATORY INDUCTION]

[7] Jose Arguelles, *Earth Ascending*, page 21; 1996 (3rd edition) [See Binary Triplet]

[8] [Trexar], [Trextrinar], [TrexAR - Snell], [Trexnonar]

[9] [7.1 - Matter is centralized motion]

[10] [Ethereic Vibration. - The Key Force]

[11] [7.9 - Ultimate Constitution of Matter and Action of Force Regulating its Phenomena]

Chapter 8

Modes of Vibration

8.1 Two models of three modes

There are three distinct modes of vibration in the standard acoustic model. These are the compression or longitudinal wave, shear or transverse wave and Rayleigh, Lamb or Love wave.

There are three distinct modes of vibration in the Keely/SVP model. These are the

Harmonic,
Enharmonic and
Dominant modes.

Each of these modes have distinct attributes such as

mode of motion,
angle of incidence,
relative frequency or pitch and
creative aliquot component signatures.

The two sets of three modes do not appear to be directly translatable. However they do possess common characteristics.

8.2 Three Modes of Vibration

8.2.1 Compression or Longitudinal Wave or Mode

Longitudinal Wave¹ same as Compression Wave or Sound Wave.

- 1) A wave incident or normal to a surface of a medium.
- 2) A vibration moving directly away from a sound source in a straight line.
- 3) Generally, considered as a motion to and from a center or source.

When harmonic is generally considered syntropic and when enharmonic considered entropic.

“Vibration in which the principal motion is in the direction of the longest dimension.”²

“A vibrating medium must lengthen and shorten two times per each lateral (transverse) oscillation; so one longitudinal motion equals two lateral or (transverse) motions. Longitudinal frequencies are independent of string tension.”³

8.3 Three Modes of Vibration

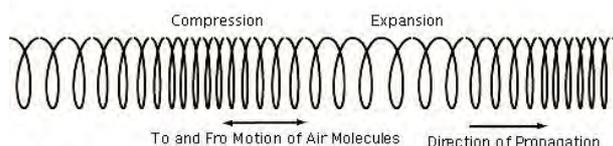


Figure 8.1: Coiled Spring showing Longitudinal Wave
Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/longitudinal.jpeg>

¹[Longitudinal Wave]

²Rossing, Thomas D. The Science of Sound. Addison-Wesley Publishing Company, 1982

³Tyndall, John; Sound; Longmans, Green, and Co., London, 1893

The above and below are but an illustration commonly held of how a longitudinal wave behaves. This is a good working model but it does not explain the complex dynamics in vibrations which dynamics are touched upon in Chapter 6 and 7 where particles in a vibrating medium mutually attract (syntropy) then mutually disperse (entropy) periodically.

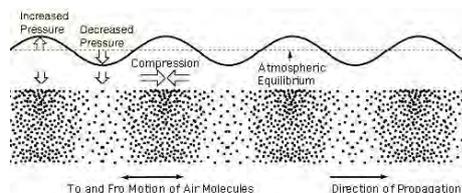


Figure 8.2: Compression and Rarefaction in a Wave
Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/compress-wave.jpeg>

8.3.1 Transverse or Shear Wave or Mode

Waves 45° and higher to normal incidence.

Waves moving at 90° to the direction of (longitudinal) propagation.

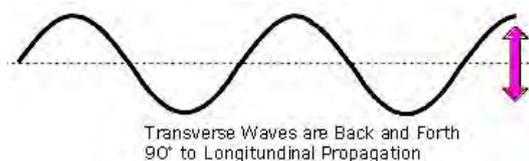


Figure 8.3: Transverse Wave
Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/transverse.jpeg>

8.3.2 Rayleigh, Lamb or Love Wave or Mode

Rayleigh waves are circular vibrations. They travel along the surface of a vibrating object when the angle of incidence exceeds 90° or nearly parallel to the surface. This behavior is not unlike the idea electrons or electricity travels along the outside surface of a conducting wire and not through the conducting wire. This is the same form and motion of the 'curl' suggested

by Maxwell⁴ in 1871 and so often spoken about by Bearden⁵. Thus this circular form and motion would be universal principle of all periodic motion. *With this idea we can say with some confidence power travels longitudinally 'through' the wire, amplitude and polarity forms 90° to the longitudinal and the Rayleigh wave is the circulating path (skin effect⁶) around a conducting wire - all three wave forms are 90° to each other. Think about that for awhile.....*

Triple axis of the three modes of vibration drawn in reference to a circle and sphere. The three modes working together develop rotation by and through each other's motion - the rotation is the Rayleigh Wave or Surface Wave mode component. The first two modes cause (or are) straight line and zig-zag motions only. The third or Rayleigh Wave travels in a circular motion.

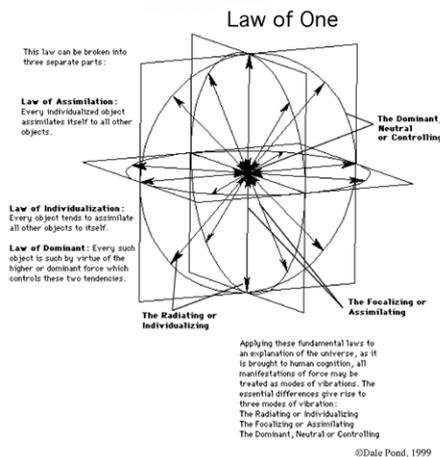


Figure 8.4: Relationship of Three Modes

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/Triune-Modes-Motion.jpg>

⁴James Clerk Maxwell (13 June 1831 – 5 November 1879) was a Scottish theoretical physicist and mathematician. See [James Clerk Maxwell]

⁵Thomas E. Bearden, Lieutenant Colonel, U.S. Army (Retired). Born Dec. 17, 1930, Cheniere, Louisiana. See [Bearden]

⁶Wikipedia/skin effect

8.4 Introduction to Keely's Wave Function

Perhaps one of the more interesting aspects of Keely's work is his Wave Function. The Wave Function is comprised of those foundational forces and attributes creating all oscillation and vibration which are seen effects of those unseen modal causes forces and attributes. Fundamentally these forces are in the 3, 6 and 9 proportions discussed in Chapter 7.

	+	±	-	
A = ATH =	IA (Hc)	+ IA (Dc)	+ IA (Ec)	(Harmonic Current)
ATE =	IA (Ec)	+ IA (Dc)	+ IA (Hc)	(Enharmonic Current)
ATD =	IA (Dc)	+ IA (Dc)	+ IA (Dc)	(?) (Dominant Current)
<hr/>				
A = ATH =	IA (3+)	+ IA (4±)	+ IA (3-)	(Harmonic Current)
ATE =	IA (3-)	+ IA (4±)	+ IA (3+)	(Enharmonic Current)
ATD =	IA (4±)	+ IA (4±)	+ IA (4±)	(?) (Dominant Current)
<hr/>				
Where . . .				
Currents				
Hc =	Harmonic current	=	3+	
Ec =	Enharmonic current	=	3-	
Dc =	Dominant current	=	4±	
<hr/>				
Streams				
Hs =	Harmonic stream	=	3+	
Es =	Enharmonic stream	=	3-	
Ds =	Dominant stream	=	4±	
<hr/>				
Subdivisions of Matter				
M =	Molecular subdivision			
IM =	Intermolecular subdivision			
AT =	Atomic subdivision			
IA =	Interatomic subdivision			
E =	Etheric subdivision			
IE =	Interetheric subdivision			
CIE =	Compound Interetheric subdivision			

Figure 8.5: Suppositional Math and Symbolic Structure
Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/table-13-01.jpg>

The above table is an attempt to correlate some of what has been discussed. Elements include the three modes, their combinations, seven subdivisions and Russell's Indig numbers⁷. The following table is another presentation of a portion of the above data.

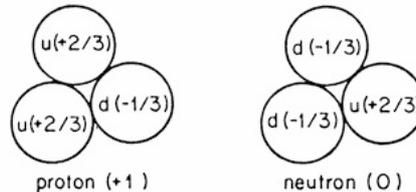
⁷[Indig numbers]

Aggregation	Governing Mode	Dominant Mode	Subservient Mode
Molecular	100 x Enharmonic	$66 \frac{2}{3}$ Harmonic	$33 \frac{1}{3}$ Dominant
Atomic	100 x Harmonic	$66 \frac{2}{3}$ Enharmonic	$33 \frac{1}{3}$ Dominant
Etheric	100 x Dominant	$66 \frac{2}{3}$ Harmonic	$33 \frac{1}{3}$ Enharmonic
Thirds	3	2	1
Proportion	9	6	3
Portion	Ninths	Sixths	Thirds

Table 8.1: Modes of Vibration⁸

8.5 Feynman Morphology

Richard Feynman's morphology⁹ from his book, QED: The Strange Theory of Light and Matter¹⁰, depicts Keely's $\frac{1}{3}$ and $\frac{2}{3}$ nested triune structure concept.



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

Figure 8.6: Feynman's triplet structures of the proton and neutron

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/feynmandiagram400.jpg>

⁹[Figure 4.14 - Feynmans Triplet Structures of the Proton and Neutron]

¹⁰QED: The Strange Theory of Light and Matter; Princeton Science Library, ISBN-10:0691125759

Thus we see again Keely anticipated the quantum world decades before conventional science even had a glimmer of its existence as we also saw in the Rule of Threes (section 7.2.3 the Rule of Threes) and elsewhere.

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

Table 14.03 - Ranges of Forces Vibration Forms Types and Governing Laws

Figure 8.7: Table of ranges of forces, forms and laws
Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/table-14-03.jpg>

(See Law of Transformation of Forces¹¹ and subdivision¹² for explanation of the above table)

¹¹[Law of Transformation of Forces]

¹²[Subdivision]

Source	From Center	To Center	Controlling
Keely / SVP ^[6]	Enharmonic	Harmonic	Dominant
Modern wave form	Longitudinal ^[2]	Transverse ^[3]	Rayleigh ^[1]
Angle of Incidence	0° – 45°	45° – 90°	> 90°
Path/Motion ^[3]	Straight	Zig-zag	Circular
Keely / SVP	Focalizing	Radiating	Dominant
Keely / SVP	Syntropic	Entropic	Dominant
Russell ^[4]	Plus	Minus	Fulcrum
Russell ^[4]	Gravitation	Radiation	Balance, Void
Charles Henry ^[7]	Gravitation	Electromagnetic	Biopsyctic
Possible Correspondence ^[5]	Thirds	Sixths	Ninths

Table 8.2: Table of attributes of the three modes

Mode	Subdivision	Octave [Hz = 2 ^{octave}]	Law
Enharmonic	Molecular / Intermolecular	1-21	Law of Oscillating Atomic Substances ¹³
Harmonic	Atomic / Interatomic	21-42	Law of Sonothermity ¹⁴
Dominant	Etheric / Interetheric	42-63	Law of Oscillating Atoms ¹⁵

Table 8.3: Keely's three modes; subdivision, octave and law

“By use of the dominant mode, which is allied to the “order” of etheric vibrations, we can induct, “sympathetic negative attraction” or “sympathetic positive propulsion” in any mass, according to its mass chord.”¹⁶

¹⁶[SYMPATHETIC INDUCTION - Snell]

8.6 Footnotes

[1] Also called Circular wave, Curl, Love Wave, Lamb Wave, Surface wave, Etheric. *“Power of rotation comes on the positive and power of negation, arising when the receptive flows become independent of the circular chord of resonation (set up mechanically or otherwise) breaks up the rotational power.”*¹⁷

[Rayleigh Wave]

[Vortex]

[2] Also called Compression wave. *“The vibratory velocity governing the magnetic flow ranges from 300,000 to 780,000 per second and comes under the first interatomic. This is the first order above odor and permeates the molecules of glass in the compass cover as air passes through a sieve. Being governed by the full harmonic chord¹⁸ this flow moves in straight lines free from molecular interference.¹⁹ “when free of this differentiation are in straight lines.”*²⁰

[Figure 8.3 - Coiled Spring showing Longitudinal Wave]

[Longitudinal]

[Longitudinal Wave]

[Longitudinal Waves in Vacuum]

[3] *“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 tortuous and zig-zag;”*²¹

[Figure 8.4 - Transverse Wave]

[transverse]

[Transverse Wave]

[4] See [Wave Field]

[Three Main Parts of a Wave]

[12.09 - The MINUS side]

[12.08 - The PLUS side]

¹⁷[ROTATION - Snell]

¹⁸[full harmonic chord]

¹⁹[MAGNETIC ENGINE - Snell]

²⁰[Snell Manuscript], [Discordant]

²¹[Keely and His Discoveries, pg 275], [Discordant]

[Figure 2.12.1 - Polarity or Duality]

[Figure 15.03 - Opposing Forces of Gravity and Radiation]

[7B.16 - Polarity, Principle of Polarity]

[5] Artwork by [Jeremy Pfeffer] et al.

[6] [The Seven Subdivisions of Matter and Energy], [VACUUMS FROM VIBRATORY INDUCTION]

[7] Jose Arguelles, Earth Ascending, page 21; 1996 (3rd edition) See [Binary Triplet]

See [MUSICAL CHORDS], [Triplet]

Chapter 9

Keely Wave Function

9.1 Introduction to Keely's Wave Function

One of the keys to Keely's mastery of matter and energy lies in what I call the Keely Wave Function¹ and his ability to manipulate it. A wave function is a mathematical description of the factors involved in a sine-like wave, vibration or oscillation expressed over time. Generally, science considers a wave function of one dimension or within a closed and defined range of frequency (to put it simply) which includes the constructive attributes of amplitude, Time and Space (wave length). In Keely's case the wave function is composite three dimensional wave function that operates within three levels, orders or ranges of frequencies, simultaneously and having additional constructive attributes or aliquot parts within those orders or levels. Thus it is more complicated but also more inclusive of the factors operating naturally within a wave, vibration or oscillation. The Keely Wave Function would include some if not all of the dimensions of the Russell Wave Function².

Perhaps one of the more interesting aspects of Keely's work is his Wave Function. The Wave Function is comprised of those creative foundational forces creating all oscillation and vibration which are seen effects of those unseen causes. Fundamentally these forces are in the 3, 6 and 9 proportions discussed in the [Laws of Being - Annotated] and [Modes of Vibration - Annotated] and hinted at by Nikola Tesla and discussed in this book primarily

¹[Keely WaveFunction]

²[Eighteen Attributes or Dimensions]

in Chapter 7 and 8.

The wave function performs not too unlike complex impedance³ calculations over time but with more variables or dimensions. The Keely Wave Function operates/is on three levels or orders simultaneously:

Molecular

Atomic

Etheric

Each level or order has three motions/dynamics:

Harmonic = Syntropic

Enharmonic = Entropic

Dominant = Neutral

This table below shows the three main levels or orders plus a fourth level or order and the forces active in each as also the law governing each specific frequency range.

³[impedance]

Range ^[1]	Octave	cps range	Sound Type	Sound Effect	Action	Vibe Type	Governing Law
		Law of Force>	Creative	Transmissive	Static		
Atomolic	65-105	?-?	Atomolity	Gravism	Gravity	Atoms Oscillate	Law of Oscillating Atomes
Etheric	43-64	4,398,046,511,104 - 1.8014398509E+19	Thermism	Rad-energy	Cohesion / Chemism	Atoms Oscillate	Law of Oscillating Atoms
Atomic	21-42	2,097,152 - 4,294,967,296,000	Sonothermity	Sonotherm	Adhesion / Disintegration	Internal Vibrations	Law of Sonothermity
Molecular	1-20	1 - 1,048,576	Sonity	Sound	Sonism	Atomic Oscillation	Law of Oscillating Atomic Substances

Table 9.1: Ranges of forces vibration forms types and laws

Table 9.1 shows the break-out into orderly detail the components, activity and functions of Keely's Law of Transformation of Forces⁴.

9.1.1 Law of Transformation of Forces

"All forces are different forms of Universal Energy⁵ unlike in their period-frequency, merging into each other by imperceptible increments; each form representing the compass of 21 octaves. Each form or pitch may be transformed into an equivalent quantity of another pitch above or below it in the

⁴[Law of Transformation of Forces]

⁵[12.02 - Universal Energy Unit Constant or Impulse]

scale of 105 octaves⁶. The transformation can occur only through its static effect, developing vibrations of harmonic pitches above or below their fundamental vibration, or developing with juxtaposed aggregates, resultant and difference, or third order, as the case may be.

Scholium: “A table of the intervals and harmonics of the normal harmonic scale will indicate the ratios in which the transformation of forces will occur.”⁷

It is said energy cannot be created or destroyed however energy can be transformed or transmuted into different forms. These vibratory forces, states and conditions have reciprocity and are expressed in ratios of relative values or ‘modes’ thus they can be changed one into the other under special circumstances as described in Keely’s Law of Transformation of Forces.

9.2 Thirds as Ratios within a Whole

In Brinton’s “Laws of Being” (Chapter 7) we can see the description of Keely’s Thirds, Sixths and Ninths as learned, understood and presented by Professor Brinton during his visits to Keely’s laboratory. We can also see these terms are not specifically musical intervals of thirds, sixths or ninths, as considered by musicians, but they are musical in terms of relativity, proportion and value. They are relative proportions within a whole. Flows and currents can be understood by the metaphor of a river or stream. The stream flows as a whole and has within this stream many currents. Herein the syntropic flow to a center is composed of three currents. Each current is a third $\frac{1}{3}$ of the whole flow or stream. These currents are expressed as ratios within a whole of 100; *i.e.*, $33 \frac{1}{3} : 100$ or $66 \frac{2}{3} : 100$. The whole wave, flow or stream, regardless of polarity, is 100. Exploring the literature a bit further we find the following relationships:

“Silver represents the third, gold the sixth and platinum the ninth, in their respective relative molecular oscillating ranges. This triune condition will equate thirds in vibratory frequencies, that is, chords in intervals of thirds will set up disturbances in the Trexar and these disturbances will be equated

⁶[Scale of the Forces in Octaves]

⁷[Keely]; [Law of Cycles], [12.06 - Mid-Tones and Neutral Centers], [Scale of the Forces in Octaves]

so as to be transmitted as thirds from the positive or farthest end of the wire.”⁸

⁸[TREXAR - Snell]

Thirds	Sixths	Ninths
Silver	Gold	Platinum
$33 \frac{1}{3}$	$66 \frac{2}{3}$	100
neutral	depolar	polar
$33 \frac{1}{3}$	>>Attractive - Equation<<	100
<<Repulsive - Equation>>	$66 \frac{2}{3}$	100
neutral	entropic	syntropic
celestial	terrestrial - mat- ter dissolving	terrestrial - mat- ter forming
dominant	individualizing	assimilative
Mind as Intent, Will, Volition, Desire	I want to be One with Everything	I want Every- thing for myself
Ideals	Service to Oth- ers	Service to Self
Fulcrum, Neu- tral, Balance	Radiating from Center	Contracting to Center
Controller	Dispersing, Dis- sociating	Concentrating, Associating
Neutral	Minus	Plus
Dominant	Enharmonic	Harmonic
Neutral	Magnetic	Electric
Fulcrum, Void	Mother	Father
Now	Life Reducing (death)	Life Enhancing
Neutral Chords	Dispersing Chords	Assimilating Chords

Table 9.2: Neutral (thirds); energy radiates from center (sixths); force contracts to center (ninths)

The above three levels and three forces acting in each are delineated in the pages listed below, especially within the [Laws of Being - Annotated] and

[Modes of Vibration - Annotated] all subject of this book especially Chapter 7. The action of each mode is determined by their composite proportions or modal preponderance. Hence a mode may have different action in different contexts, use or circumstance.

Chapter 10

Proportions (Ratios) of Relative Values

10.1 Proportion

Proportion is the ratio (relativity) of two or more numbers or quantities to each other as have been presented in the preceding chapters. The same of course applies to notes in a music chord. While the individual frequencies are important they take on a new meaning according to their proportion within the scale, chord and to each other. This gives us an insight into why Keely used music notation to such an extent. On Keely's charts can be seen the following terms of numeric relationship.

Proportion is in three kinds: (1) multiplex. (2) Superparticularis. (3) Superpartiens. Proportio multiplex is when the larger number contains the smaller so many times without a remainder, as

2:1 (dupla)

3:1 (tripla)

4:1 (quadrupla).

Proportio superparticularis is when the larger number exceeds the smaller by one only as

3:2 (sesquialtera)

4:3 (sesquitertia)
 5:4 (sesquiquarta).

Proportio superpartiens is when the larger number exceeds the smaller by more than one, as

5:3 (superbipartienstertias)
 7:4 (supertripartiensquartas)
 9:5 (superquadripartiensquintas).

Thus, it will be understood, that instead of giving simply the ratio between two numbers, early writers on arithmetic and geometry, as well as music, coined a single word to express that ratio; for example, 17:5 was said to be Triplասuperbipartiensquintas, *i.e.*, that the larger number contained the smaller number three times (tripla) with two remainder (bipariens). Again, Triplասupertripartiensquartas proportio, signified that the larger contained the smaller three times and three over, as 15:4, 27:8, *etc.*, the last part of the compound word always pointing out the smaller of the numbers compared, or an exact multiple of it. Lastly, the addition of sub showed that the smaller number was compared to the larger, *e.g.*, 4:15 would be called Subtriplասupertripartiensquartas proportio. This system of proportion was used not only with reference to intervals but also to the comparative length of notes (time).¹

An excellent booklet on proportion is ‘Propositions of Proportions’² in the svpbookstore.com online catalog.

10.2 Reciprocating Proportionality

Reciprocating Proportionality means what is added to one side must be simultaneously subtracted from the other. A children’s seesaw is a perfect analogy. Whatever quantity or rate of change added to one side must be subtracted from the other. Another good analogy is a mathematical equation where what is added to one side must be subtracted from the other side or where one side is multiplied the other is divided. A dynamic balance

¹Stainer, John; Barrett, W. A.; A Dictionary of Musical Terms; Novello, Ewer and Co., London, pre-1900

²svpbookstore.com

where the whole is always one while the two balanced forces in opposition (*e.g.*; syntropy and entropy) are constantly changing in direct proportion to one another. The Square Law and Inverse Square Law is another good example. This equal and balanced reciprocating dynamic is at the root of Russell's Rhythmic Balanced Interchange³ and Macvicar's cosmical Law of Assimilation⁴.

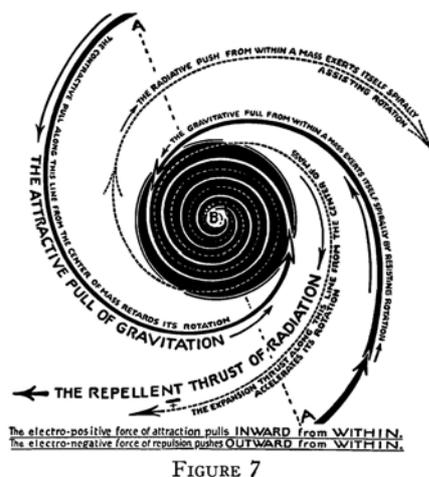


Figure 10.1: One Balanced Whole and Two Reciprocating Dynamics

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/reciprocating.jpg>
(courtesy University of Science and Philosophy)

10.3 Reciprocating Proportionality

“The underlying law of Creation is RHYTHMIC BALANCED INTERCHANGE in all transactions in Nature. It is the one principle upon which the continuity of the universe depends. Likewise, it is the one principle upon which the continuity of man’s transactions, his health and happiness depend. It is the manifestation of God’s two opposing desires in all processes of creation.

“BALANCE is the principle of unity, of oneness. In it is the stability which lies in CAUSE. BALANCE is the foundation of the universe.

³[Rhythmic Balanced Interchange]

⁴[Law of Assimilation]

“BALANCED INTERCHANGE simulates oneness by interchange between pairs of opposites. It is the principle of equal giving between all moving pairs of unbalanced opposites which constitute this dual electric universe. In it is the instability of EFFECT. Instability is forever seeking to find stability. It can never find it, but it can simulate it by balancing its instability through equality of interchange.

“RHYTHMIC BALANCED INTERCHANGE is the principle of continuity of EFFECT. Balanced interchange between opposites repeats simulation of stability, and rhythmic balanced interchange continues that repetition.”⁵

The degree to which a vibrating or oscillating system is either one polarity or the other can be pictured or expressed in relative and accumulative numbers. Russell used the + sign to indicate accumulating, concentrating (syntropic) quantities and a – sign to indicate dispersive, radiating (entropic) quantities. Russell used his Scale of Locked Potentials⁶ to measure degrees of polarity and this author believed Keely similarly used his mysterious thirds, sixths and ninths as part of his referencing method where proportions or parts of a whole were given proportioned or ratioed values.⁷

10.4 Reciprocal Proportion

Increases and decreases (establishing polar preponderance) are in inverse or direct proportion to rate of change or *delta*.

Energy at Plane of Inertia is neutral or depolar. –0 0+.

⁵Russell, [The Secret of Light], page 106-107

⁶[Scale of Locked Potentials]

⁷[3.13 - Reciprocals and Proportions of Motions and Substance]

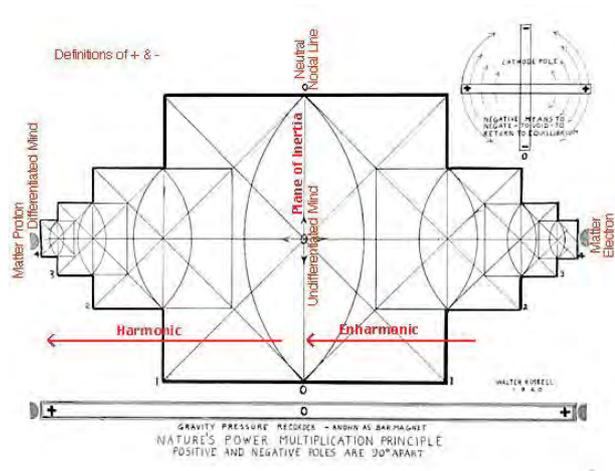


Figure 10.2: Plane of Inertia

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/plane-of-inertia.jpeg>
 (courtesy University of Science and Philosophy)

Degree of Concord or Discord is determinative anywhere from $-0\ 0+$ to $4\ +\ +^8$.



Figure 10.3: Scale of 0 to 4 to 0

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/lockedpotentials.jpeg>

When preponderantly harmonic a larger volume $-0\ 0+$ condenses to smaller volume of $-1\ 1+$ progressively to $4\ +\ +$.

When preponderantly enharmonic a smaller volume $4\ +\ +$ dissociates and expands to larger volume of $-3\ 3+$ progressively to $-0\ 0+^9$.

⁸[4plusplus]

⁹[4plusplus]

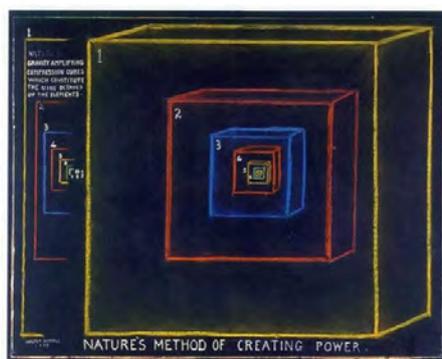


Figure 10.4: Nested cubes or increasing and decreasing proportions

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/nested-cubes.jpg>
(courtesy University of Science and Philosophy)

Volume decreases with increased potential.

Volume increases with decreased potential. For numeric details and relationships on the above see [cube-sphere] and [Cubing the Sphere].

Transformations occur at the -0 $0+$ and $4++$ points, states or conditions. The first according to Russell's Principle of Regeneration¹⁰ (Keely's "static effect") and the latter by Keely's Law of Cycles¹¹. See Figure 12.8 for an animated graphic show progressive generation of discords until dissociation.

10.5 Reciprocals and Proportions of Motions and Substance

"The following fundamental laws governing mathematical relations will briefly convey the idea of the Principles governing universal ratios which is in every effect of motion the direct and inverse square of the distance, area or time dimensions and the cube of volume or potential dimensions. The direct and the inverse are the two way indicators of direction, the latter belonging to

¹⁰[Principle of Regeneration Russell], [13.13 - Principle of Regeneration] and [Principle of Regeneration Bearden]

¹¹[Law of Cycles]

gravitational and the former to radiational effects.”¹²

Notice the reference to the reciprocals Square Law and Inverse Square Law in the above Russell quote. These two laws are reciprocals of each other and reflect the natural ways force and energy¹³ interchange in nature when forming pressures, vacuity, rotation, gyroscopic motions, or vortices.

“All dimensions¹⁴ simultaneously expand and contract in opposite directions of the same ratio.”¹⁵

10.6 Thirds as Ratios within a Whole

In the above quote we can see the description of Keely’s Thirds, Sixths and Ninths as presented by Professor Brinton after his visits to Keely’s lab on Chestnut street, Philadelphia. We can also see these terms are not specifically musical intervals of thirds, sixths or ninths, as considered by musicians, but they are musical in terms of relativity, proportion and value. They are proportions within a whole. Flows and currents can be understood by the metaphor of a river. The river flows as a whole stream and has within this flow many currents. Herein the syntropic flow to a center is composed of three currents. Each current is a third ($\frac{1}{3}$) of the whole flow. These currents are expressed as ratios within a whole of 100; i.e., $33 \frac{1}{3} : 100$ or $66 \frac{2}{3} : 100$. The whole wave or stream, regardless of polarity, is 100. Exploring the literature a bit further we find the following relationships:

“Silver represents the third, gold the sixth and platinum the ninth, in their respective relative molecular oscillating ranges. This triune condition will equate thirds in vibratory frequencies, that is, chords in intervals of thirds will set up disturbances in the Trexar¹⁶ and these disturbances will be equated so as to be transmitted as thirds from the positive or farthest end of the wire.”¹⁷

¹²Russell, [Genero-Radiative Concept], part 6b

¹³In SVP [Force] is considered Syntropic while [Energy] is considered Entropic.

¹⁴[Dimension]

¹⁵Russell

¹⁶[Trexar]

¹⁷[TREXAR - Snell]

Chapter 11

Universal Heart Beat

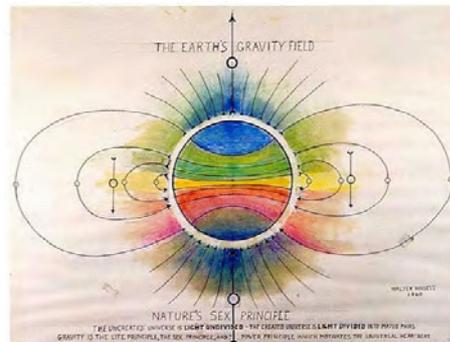


Figure 11.1: Universal Heartbeat

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/heartbeat.jpg>
(courtesy University of Science and Philosophy)

Universal Heart Beat =
Dynaspheric Force¹ =
Rhythmic Balanced Interchange² =
Triune Polar Flows³

“The eternally conscious entity - call it by whatever name we please - moves

¹[Dynaspheric Force]

²[Rhythmic Balanced Interchange]

³[Triune Polar Flows], [Figure 13.12 - Triune Polar Stream Characteristics]

in cycles as eternal and infinite as itself; it oscillates and vibrates perpetually."⁴

The universal heartbeat is the periodic flow of a polar system from a preponderance of one pole then to preponderance of its seeming opposite pole. This is the action of all vibration, oscillation and waves no matter what order or level (frequency or media) it is. Russell mentions "*in the wave lies the secret of Creation.*"⁵ The secret then of Creation⁶ is the unseen dynamics of the wave, vibration or universal heartbeat - the essence of this book. The following are primarily Russell quotes describing this universal dynamic or dance of polarities.

11.1 The Love Cycle

*"Energy accumulates during genero-active inhalation by rising potential, and is dissipated during the radio-active⁷ exhalation by lowering potential. The periodicities of inhalation and exhalation in all mass are absolute."*⁸

"All the force of electricity is exerted in the attempt to create the illusions of form and dimension.

"All the force of magnetism is exerted in the attempt to destroy all illusion, all form and all dimension.

"Neither force completely fulfills its desire, for each partially thwarts the other.

*"The energy of magnetism is the elastic energy of expansion, a straining energy ever pushing toward the inertial line of equalized pressures which lies between any two masses, while the energy of electricity is ever pulling toward the pulsing heart, the gravitational nucleus of every mass."*⁹

⁴Keely's description of that state of being commonly known as God, [Dashed Against the Rock], see [14.30 - Effect of Preponderance] and [14.31 - Preponderance Russell]

⁵[In the Wave lies the Secret of Creation]

⁶[Creation]

⁷[radio-active]

⁸Russell, [The Universal One]

⁹Russell, [The Universal One]

“To these periodic oscillations, alternating in sequence, is due the revolution and rotation of all mass.”¹⁰

“All evolving and devolving mass beats time in accord with its periodic sequences of alternating electro-magnetic oscillations.

“All mass beats time in accord with its varying potential.

“The electro-magnetic oscillations of the universe are the heart-beats, the life pulsations of the universal One.”¹¹

“The misconception of gravity as a force of attraction which pulls inward from within. The only force which motivates the heart beat of this universe is the cyclic wave force of gravity which expands and compresses, heats and cools, integrates and disintegrates, centripetally and centrifugally.”¹²

“Waves of motion spring from the stillness of the universal equilibrium. They are the universal heartbeat which manifests eternal life and power in God’s stillness by eternal repetitions of simulated life and power as expressed in waves of motion.”¹³

“Each interchange between the invisible omnipresent universe where motion begins and ends, and the visible transient universe, which multiplies and divides the speed and power of motion, is a cycle. Pulsing cycles constitute the heart beat of this universe, which simulates Mind-Idea through pulsing cycles of two-way motion. Every pulsation of the life principle of multiplying motion creates divided electric male and female bodies, which seek rest in each other from the strains and tensions of their division into pairs of opposites.”

“This shows how the heartbeat piston operates between the vacuity of the

¹⁰[See 7.39.4 Receptive Transmittive Concordance induces Rotation]

¹¹Russell, [The Universal One], Book 02 - Chapter 03 - New Concepts of Electricity and Magnetism

¹²Russell, [Russells Optic Dynamo-Generator]

¹³Russell, [The Secret of Light], page 115

*Creator's Magnetic Light¹⁴ universe of Mind-energy¹⁵ and the potential of the electrically pressured universe to create cycles of two-way motion.*¹⁶

"The sexless Father-Mother Creator is One. His extended sex-conditioned, male and female bodies are the completion of His Trinity.

*"Rest and action are three. Space and matter are three. Equilibrium and motion are three. Dimensions and pressures are three. The heartbeat of the universe, and yours, are three. Likewise, its breathings and yours, its temperatures and yours, and all things else of the universe, and you, are three."*¹⁷

*"To account for this unnatural phenomena The Coulomb Law was adopted, which says that opposites attract, meaning oppositely sexed mates and likes repel, meaning similarly sexed pairs. This law is invalid, for oppositely sexed mates do not attract. They are forced into collision by the electric action of dividing Oneness into unit pairs. The instant that they do collide they use their utmost endeavors to re-attain the sex-divided condition by re-charging their discharged condition. Nature helps in this process by assisting to re-charge with every heartbeat, every breathing cycle, and the food one eats."*¹⁸

"By turning on the current it will be found that the spot between the two electrodes is of zero potential, and that many lines of radiation extend from that center and cause a moving electric current to spin around the zero fulcrum center where the ring is located. Not only that but an electrode placed in contact with the ring, will convey current away from it. This effect of electric current extending from a still center to convey its power to the ring, and other outside conductive matter, is identical with the mental example quoted in Fig. 48.

¹⁴[Magnetic Still Light]

¹⁵[Mind Force]

¹⁶Russell, [Atomic Suicide]?, Chapter 4 - The True Nature of This Mind and Motion Universe

¹⁷Russell, [Atomic Suicide]?, Chapter 5 - Prelude - The Transformation of Man

¹⁸Russell, [Atomic Suicide]?, Chapter 8 - The Oneness of Gravity and Magnetism; see also [PoL - Chapter 9]

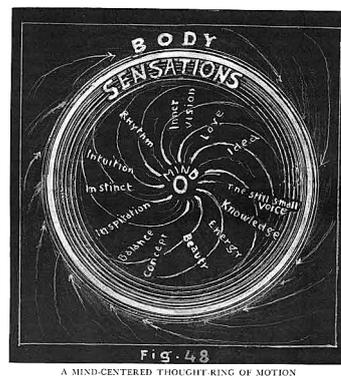


Figure 11.2: Neutral Center 4++ extention to periphery 0
 Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/ring-of-motion.jpg>
 (courtesy University of Science and Philosophy)

“Anyone who may question this fact may not only prove it by this simple experiment but can also move the two electrodes away from the center of the rim so that their centering zero occupies an eccentric position, as the human heart does in relation to the chest, and as the zero center of the heart itself is eccentrically placed in relation to its mass. A different wave pattern will result but the electric qualities will remain the same. There is always a neutral center which centers the birth point of any action. Motion spins around that neutral center, but there is no motion at that center.”¹⁹

“Say also thou to man who thinketh of his heart beat as his own alone - unbound to all things else - that all creating things unfold with the pulse beat of My cyclic thinking. As My thinking is universal, so likewise, is My pulse beat universal.

“And furthermore I say that every blade of grass and leaf of oak in mighty forest pulseth with the heart beat of man and all things else, yea even down to microcosmic cells of forming things of earth, and sea, and sky; for even the most minute of these pulse with the electric waves of My cyclic thinking as the mightiest of stars in My heavens likewise pulse.

“For I, God of Light, thy Father-Mother God of Love, am the One Whole.

¹⁹Russell, [Atomic Suicide]?, Chapter 9 - The Mind Nucleus of the Atom

From Me all unfolding-refolding things extend, and to Me they return for re-extension.

“All things go from very heart of Me into My imaged universe; and when they disappear from there I also take them back to very heart of Me.

“For I am the Soul of art. To him whose Soul would touch My Soul, and feel the heartbeat of its mighty rhythms, I say, in so far as thou knoweth thy Self as Light, thou shalt know Me as Light.”²⁰

“God has two desires: the desire to unfold His creations to give them form and set them into action; and the other desire is to refold His forms and take them back to Him for rest and resurrection so that they may repeat their action. That is the basis of the entirety of creation - the two desires of God, to act, to create, and to take back for re-creation. That is why God divided everything into pairs of opposites: the desire to express action, the desire to separate from Oneness, God’s Oneness desiring to be manifested as many ones - the idea of separation and action; and the desire for return to rest from which that action sprang for the purpose of repeating the action in cycles, countless millions of cycles of action and rest, in-breathing, out-breathing; the pulse beat of the universe; the heartbeat of all things pulsing in all things to manifest life in action and reaction from the stillness of God’s One Light in which there is no action and reaction.”²¹

“God’s universe is entirely composed of microcosmic and macro-cosmic masses of pulsing electric waves, which we call matter. These pulsing waves constitute the universal heartbeat, or universal breath of God’s body. God’s body continues its manifestation of the life principle by breathing outward and inward sequentially, just as you breathe out and in in balanced sequences to continue your appearance of existence.

“Every mass in the universe breathes out and in, rhythmically. There are no exceptions to this law which every nebula, sun, planet or electron of an atom obeys, but in varying frequencies appropriate to their potential. Your breath frequency may be ten cycles per minute while the sun’s frequency is

²⁰Russell, [The Message of the Divine Iliad]

²¹Russell, Fifth Kingdom, The Beginning of Man

one cycle in eleven years.

“The most obvious fact of Nature is its repetition in reverse of every effect of motion in two-way pulsing cycles. It is unaccountably strange that science has never observed this most obvious of all of Nature’s characteristics. Every cycle in Nature is a two-way, equal interchange between pairs of opposite conditions. That interchange between the equally balanced anodes and cathodes of this electric wave universe constitute its pulsing heartbeat, which likewise is cyclic, otherwise it would not continue.”²²

“The test for ascertaining the average number of those who are ready for this higher step upward in the unfolding of the man-idea is not a religious one, it is a cultural one. In New York City, for example, about 7,000 people out of 8,000,000 people love the higher inspirational rhythmic creations of the world’s great geniuses who interpret the heartbeat of Nature for the Souls of men. These same few shun noisy crowds, shudder at Jazz music, which distresses them acutely, in order to seek aloneness in the forests or ocean’s shores where they can hear Nature’s silent whisperings and rhythmic sounds within their very Souls.”²³

“There is an indescribable glory all along the road which leads from your active thinking to the stillness of deep meditation. If you cannot actually go to the forest or sea, the better to commune with God, go there in your imagination. If some problem demands your thoughts let the imagined tones of the sea drown them out. If you imagine the sea and hear the rhythms of its waves pounding upon the shores as echoes of the heartbeat of the universe resounding within you, or if you hear the breezes whispering in the pines with your inner ears, the glory of that ecstasy will soon drown out dross thoughts of earth.

“Earth music is melodic and chains you to earth. The music of the spheres which you hear with inner ears, is deeply tonal, not melodic. The rhythms and tones of Nature’s music which sing its octaves in the language of Light have always within them the pulsing rhythms of the universal heartbeat, always the one-two, one-two pulsing of the Father-Mother heartbeat of birthing-rebirthing forms of things, which manifest the Father-Mother pulsing rhythms

²²Russell, [Home Study Course], Unit One - Prelude

²³Russell, [Home Study Course], Unit One - Lesson 1.1

of the Soul's high heavens.

"Always in your deep meditation the music of the silences from which sounds of earth spring is like unto the aftermath of the great symphonies by cosmic masters, which have refolded from sounds of earth which your ears have heard, into your very Soul, which still hears them in the pulse-beat of your imagining."²⁴

"And as love is rhythmically repeated in its givings and regivings to synchronize with the givings of your outward breath to the heavens and their regivings to you, and as such balanced rhythmic interchange between your heartbeat pulsings and all other electric extensions from the stillness of your Soul is LAW - the basic fundamental LAW of all creating things in all this electric universe - your own masterpiece is the measure of how divinely you have conceived it and how worthily you have rendered it in balance with Universal Law.

"To the extent that you can extend the beauty of your imagined rhythms to material bodies built in the images of your spiritual conceptions those rhythms which you create are masterpieces of great art. The very measure of the quality of your material interpretation lies in your ability to translate imagined forms and rhythms of the universal heartbeat into bodily forms and rhythms which can reinspire others with the ecstasy of your inspiration."²⁵

"Your transcendent genius is the result of your communion with God. By your masterly interpretation of the rhythmic heartbeat of His thinking you have caused others to commune with you and God. Your meditation and theirs are one. You have made them to forget their sensed bodies and dwell in the Mind kingdom of your high heavens with you and all illumined Souls who dwell in God's kingdom of Light."²⁶

"Imagine yourself communing with God indirectly, such as listening to the heavenly rhythms of God's heartbeat in a masterly symphony. While thus enraptured by the divine rhythms reaching your very Soul can you possibly

²⁴Russell, [Home Study Course], Unit One - Lesson 1.2

²⁵Russell, [Home Study Course], Unit One - Lesson 2.1

²⁶Russell, [Home Study Course], Unit One - Lesson 2.2

imagine yourself thinking evil, or thinking sinfully by planning to cheat, or lie, or steal? No - of course you cannot. The reason you cannot is because you are reflecting the love nature of the universe in your spiritual Self in its entirety, and there is no sin in that love nature to reflect.”²⁷

“The entirety of Creation is the manifestation of love. Every effect of motion in nature is a manifestation of the nature of God, for Nature gives of its all in every action and regives equally in every reaction. If that were not so the movements of the planets would not be predictable.

“The electric heartbeat of Nature expresses love in both halves of each cycle of the universal heartbeat. Nature never takes for God never takes. Nature never gives unequally for God never gives unequally.

“God’s equally balanced giving for regiving is never violated in Nature. It could not be violated for Nature is an extension of God’s nature. For this reason the balance of Nature can never be upset.

“You can KNOW music and THINK it without having acquired the technique of expressing it, or without producing sounds to give it a body. Your inner ears can hear the music in the silence of God’s eternal rhythms, and you can interpret your moods into the rhythms of the universal heartbeat, as Beethoven interpreted the mood of the moonlight into the rhythms of it without having any teacher but his God-Self.

“Consider the life of any great musical genius. What he finally produces in a written composition first begins in his Soul. He must first find aloneness with his Self by getting away from all other people, and even from his own body awareness. He must suppress all outer influences to seek that stillness from within from which the inner ears of his Soul can hear the rhythms of the universal heartbeat of God’s creative thinking.

“To find that stillness in the Light of knowing he must stop thinking, in order that he can conceive idea from the Light of all-knowing. From the ecstasy of that stillness the inspiration is born in his very Soul. The motive for his symphony gradually takes form through the heartbeat of his thinking

²⁷Russell, [Home Study Course], Unit One - Lesson 3.1

which he extends from the stillness of his Soul, then ceases to extend it to again find the stillness of the Light which is gradually giving him his motive by its inspiring illumining within him.”²⁸

“SECOND. Your desire is written upon your heart. It is registered in your Soul. It is no longer your body desire, it is your Soul’s desire. You are in communion with God about it - not in words but in Light. You have an increasing sense of joyousness. Your desire is written into the universal heartbeat rhythmically. You are responding to it rhythmically. You are no longer just body - you are Soul - slightly aware of body - slightly aware of earth, and the heavens above, and of creating things. You are not thinking of extraneous things. You cannot think of objective things of earth while in the Spirit.”²⁹

“The key to that answer is that God’s universe is founded upon balance - one balanced condition which He divides into two equal and opposite conditions of His electric thinking. This electric universe of matter is composed entirely of these two equal and opposite conditions.

“Every effort of every creating thing is expressed by the motion of interchange between those pairs of opposite conditions, such as matter and space which constantly interchange equally by breathing into and out of each other equally. Without that equality of rhythmically repeated interchange the universe could not continue. That rhythmic interchange constitutes the heartbeat of God’s body. Its rhythm and balance are absolute because the division of God’s electric thinking is equally balanced.”³⁰

“Meditation transports one from the transient world of matter to the real world of dreamings, visions, and imaginings where idea is and concepts are born. That is the world where sounds are heard in the silence of your Soul where no sound is where rhythms of symphony and poem are the rhythms of cosmic pulsings of God’s thinking manifested in the heartbeat of His universe.”³¹

²⁸Russell, [Home Study Course], Unit One - Lesson 3.2

²⁹Russell, [Home Study Course], Unit One - Lesson 4.1

³⁰Russell, [Home Study Course], Unit One - Lesson 4.2

³¹Russell, [Home Study Course], Unit One - Lesson 4.4

“When you pray for God to show His love for you by giving your field good crops you must yourself give your love to your fields to regive His giving. Your love given to them is God’s love given to you for regiving. Your love and God’s love are ONE. Its manifestation is TWO in giving and regiving but that TWO is the ONE HEARTBEAT of God’s body, even as the swinging of the pendulum is the TWO of the ONE source of their manifestation.

“He who knows the Light of love in him does not beseech the Father-Mother of the universe for his next breath, nor for his next heartbeat, for he fully knows that his heartbeat is one with the universal pulse, and that for which he would needlessly ask is already his.

“And as there is not a time when God centers you, and an interval elapses in which He again centers and controls your balanced heartbeat to synchronize with His, so is there not a time when you should pray to Him, and another time when you should not.”³²

“The love born symphony is prayer for love fulfilled in the composer and again fulfilled in the hearts of those whose heartbeat feels the ecstasy of God’s heartbeat as expressed in those heavenly rhythms.”³³

“I instantly, and timelessly, knew the still magnetic Light which is the fulcrum of life and power, also I knew the heartbeat of the electric universe which manifests love, life and power in matter.

“I also instantly and timelessly knew that the magnetic Light of the God of love was all that is - and that the sensed electric wave universe of motion which simulates love, life and power, had no reality whatsoever. I knew it for what it was - God’s thinking - God’s imagining - pure illusion - simulation - self-voiding forms thrown on the screen of space to manifest changeless idea by setting it in motion to produce the effect of change.

“Thus knowing the universal heartbeat I knew the electric wave, or universal pulse, to which all moving, creating things were geared. Thus knowing the wave and its octave pulse beat in cyclic rhythms which spelled their rhythms

³²Russell, [Home Study Course], Unit One - Lesson 6.1

³³Russell, [Home Study Course], Unit One - Lesson 6.2

out for me always as

+zero +one +two +three +four +zero- -four -three -two -one -zero

I then knew all cause and comprehended all effect.

“There was nothing to know but God’s one whole idea of Creation, which is represented in the following diagram by the changeless ZERO of the spiritual Mind universe of REST - and nothing to comprehend but the heartbeat of this pulsing electric wave universe of motion which is represented in the diagram by the NUMBERS.

THE HEARTBEAT OF THE UNIVERSE										
POSITIVE					NEGATIVE					
0	1	2	3	4	0	4	3	2	1	0
GENERATION					DISINTEGRATION					
ENERGY TOWARD					ENERGY TOWARD					
LIFE AND GROWTH					DECAY AND DEATH					

Figure 11.3: The basic formula of Creation

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/positive-negative-scale.jpg>
(courtesy University of Science and Philosophy)

“This diagram is given to you now as the first simple step toward your acquisition of all knowledge of CAUSE and all comprehension of EFFECT. During the whole construction of this electric universe in this entire course of study the basic principle above diagramed will never be departed from, or exceeded, for there is nothing in Nature, nor in your own life, nor in your thinking, nor in any action of yours which can vary one whit from this basic formula of Creation.

“Nor is there anything the chemist, physicist, metallurgist or engineer can exceed beyond this formula or vary it in their work. Likewise the poet, painter, inventor, musician or architect is limited to this simplicity beyond which he CANNOT GO, and to which HE MUST CONFORM.

“Likewise the healthy growth of your body, or the conduct of your friendly or business relations must conform to this principle of BALANCE or else suffer the consequence of whatever unbalanced residue remains from lack of conformity with the heartbeat of the universe.”

“The reason why I have been able to do so many things during life, and do them in a masterly manner, was because of my lifetime growing knowledge of the universal heartbeat which fully unfolded in one timeless flash in 1921.

“It may not suddenly unfold to you, as it did to me, but you can very greatly accelerate its unfolding if you will open your heart to these lessons and get what I am telling you into your Consciousness instead of just photographing them into your brain.”³⁴

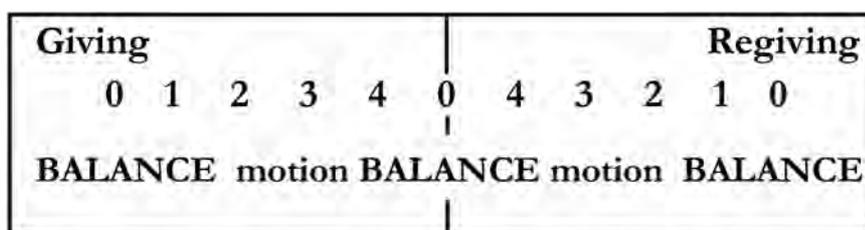


Figure 11.4: Formula of Rhythmic Balanced Interchange
 Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/giving-regiving.jpg>
 (courtesy University of Science and Philosophy)

“As you see I have again used the same formula of rhythmic balanced interchange in all transactions of Nature. I have but used different words to express different ideas.”³⁵

³⁴Russell, [Home Study Course], Unit One - Lesson 7.3

³⁵Russell, [Home Study Course], Unit One - Lesson 7.4

Chapter 12

Vortices and Toroids

12.1 Vortices

Vortices combine their many complex motions to create compound vortices or toroids composed of several parts and dynamics. In other words a toroid of rotating motion is the effect of vortex dynamics. These dynamics are the combined effects of differential densities¹, temperatures, pressures and tensions. These interactions between differences in density, potential, pressure, temperature and mass are the cause of motion which is the system attempting to regain balance in all its parts. These dynamic systems are in turn governed by simple laws as are discussed in this book. The forces creating vortices are the same forces creating vibration and oscillation but with different parameters.

¹[differential densities], [2.7 - Differential Densities], [16.13 - Differential Densities], [3.6 - Differential Densities Begin to Form]

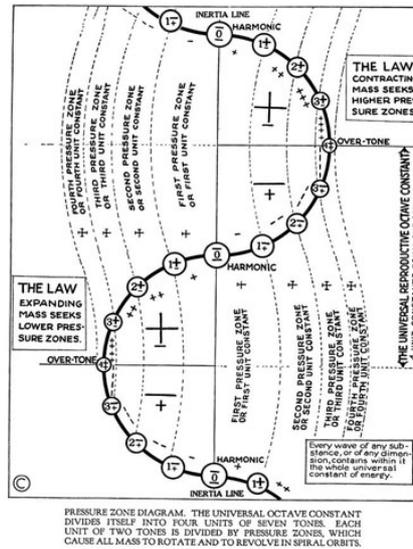


Figure 12.1: Differential densities, pressures and masses
 Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/differentials.jpg>
 (courtesy University of Science and Philosophy)

In examining the dynamics of a vortex it is obvious there are many subtle polar dynamics converging to create a typical vortex such as are witnessed in a tornado or hurricane. These polar striations² (flows of differing energy states) would include differences in pressure³, mass, potential, velocities and tensions caused by the differences of these states.

*“...vortex action (is) induced by differential conflict between the low and high tensions...”*⁴

“All such experiments invariably resulted in vortex motion, whether induced sympathetically or otherwise. All corpuscular action in Nature is vortex motion. The undulatory theory⁵ of light is only hypothetical. The conditions of

²[striations], [stria]

³[Figure 3.6.1 - Tornadoes also have a Down Draft caused by its vacuous center], [Figure 3.6 - Tornado Vacuums up Everything for Redistribution]

⁴Keely, [LIGHT - Snell]

⁵wave theory

electro-magnetic radiation, on the same plane of matter as light, disprove the undulatory theory in many particulars. The vortex action induced by differential conflict between the low and high tensions shows conditions analogous to those in the molecular dissociation of water⁶ into hydrogen and oxygen in other words, vortex action of the highest order but peripheral only. Were it otherwise, the ether could not be held suspended or enclosed in the molecular or atomic envelopes⁷.”⁸



Figure 12.2: Tornado Vortex

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/tornado-hf.jpg>

12.2 Vortex Components

1. Cone
2. Cone Base (large opening)
3. Cone Apex (Gravity Center, Neutral Center)
4. Syntropic Still Magnetic Light, Gravity or Mind Shaft (hollow center)
5. Etheric Vacuous Center
6. Entropic Rotating Periphery (striated with high and low pressures and tensions)
7. Pressure Striations
8. Entropic Equator 90° to formative forces

⁶[Aqueous Disintegration], [Part 15 - Dissociating Water], [AQUEOUS DISINTEGRATION - Snell], [THEORY AND FORMULA OF AQUEOUS DISINTEGRATION]

⁷[rotating envelope]

⁸[LIGHT - Snell]

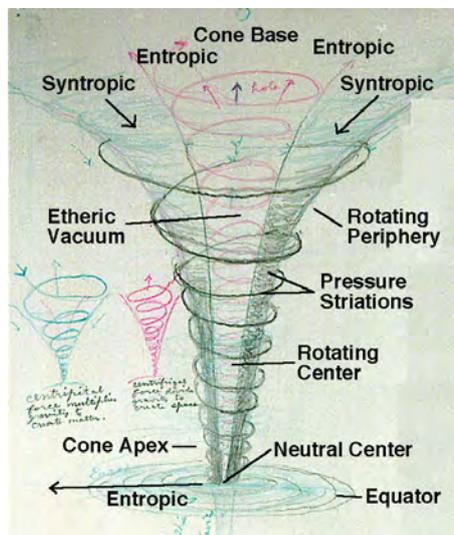


Figure 12.3: Vortex showing a few of its many components

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/vortex-nd.jpg>
(courtesy University of Science and Philosophy)

12.3 Vortex Dynamics

Syntropic (Sympathetic) Formative Forces⁹ attracting to center.
 Entropic (Repellant) Dispersive Forces dispersing from center.
 Neutral Center Dynamics (Dominates/controls above two dynamics).

12.4 Vortex Action is rotary

“All such experiments invariably resulted in vortex motion, whether induced sympathetically or otherwise. All corpuscular action in Nature is vortex motion.” [Keely]

A vortex rotates on a divided horizontal plane along its extension, length or altitude from the ground to the clouds. The high and low tensions¹⁰ (pressures, temperatures and densities) are in constant conflict seeking balance or

⁹[Figure 4.12 - Keelys Formative Structural Dynamic Morphology]

¹⁰[antagonism]

voidance through and against each other. This assertive seeking for balance or voidance is the cause of the vortex's violent motions - a sex act if you will allow such term. The base universal state is 'desire for' balance, harmony or equilibrium. Desired because no state of perfect balance can permanently exist. *A system disturbed from this balance of forces will reassert itself in an effort to restore a stable state of balance or harmony (Love or sympathetic association) but such action is like a dog chasing its tail - and never catching it.*

12.5 Vortex Center

A tornado's center is an etheric vacuum having centripetal forces powerful enough to suction asphalt from paved roads¹¹ or lift cows, people and houses. This central vacuous column has been described as being luminous by those fortunate enough to have seen it and survived to tell about it. Walter Russell referred to this center as the Magnetic Still Light of Mind¹². It may also be the fabled Luminiferous Ether¹³ of the ancients.

“Know thou that God does not extend His Self into his moving universe, for the God-Light is still. Its stillness centers all things and it, likewise, centers the shafts of all motion which turns around it, shafts which are levers of fulcrums and end at poles which measure extensions.”¹⁴

“Electricity (a polar condition) is the divider of the invisible white¹⁵ still magnetic light of gravity - which Mind is - into the red and blue halves of the visible light spectrum for the purpose of creating male and female bodies (in motion) which alone constitute all matter.”¹⁶

¹¹[Figure 3.6 - Tornado Vacuums up Everything for Redistribution]

¹²[Magnetic Still Light]

¹³[Luminiferous Ether]

¹⁴[Atomic Suicide]?; Chapter 5 - Prelude - The Transformation of Man, part 2 of 2

¹⁵In Figure 12.4 the white light is shown as yellow. Hughes in her book “Harmonies of Tones and Colours” considered yellow as the Source from which discord (form) originates and progresses.

¹⁶Walter Russell, notation on chart, 1955. see [First Cause]



Figure 12.4: The depolar One divides into duality/polarity
 Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/female-male-color.jpg>
 (courtesy University of Science and Philosophy)

“The One begat the Two which begat the Three and from the Three all things are made.” Lao Tse¹⁷

The two initial polar states being 1) to separate or be individual and 2) be Unified or One are nothing more than tendencies or desires. Entropy tends in a direction away from the center, under certain circumstances, *in a spiral path*. Syntropy tends to a direction towards the center, under certain circumstances, *in a spiral path*. Interestingly the two opposing states, forces or poles become each other intermittently¹⁸. Since there are only two states they are initially in seeming perfect equilibrium one against the other. There is no motion or substance with the desire and tendency to direction and motion held latent. In this state of perfect latency on the etheric level there is pure potential waiting to be transformed into motion and matter by introducing idea (desire) or disturbing excitation.¹⁹ But such a static state cannot persist. On the molecular and atomic levels disturbance of this static equilibrium can occur with simple acoustic impulses.

¹⁷‘The Tao te Ching’ [<http://en.wikiquote.org/wiki/File:8orbitals.jpg>]

¹⁸[Law of Assimilation]

¹⁹[2.11 - Beginning as Undifferentiated One]

12.6 Vortex Polar Forces

Russell's reference to - creating male and female bodies - refers to the still magnetic light as dividing itself creating the two seeming polarities - the two seeming opposing forces of entropy and syntropy whose mutual conflict²⁰ to void or balance results in the motions of the vortex. The two poles' prime objective is to void against/through each other that they may regain the Oneness (balance, harmony or love) from whence they came. These are the dynamics of the Universal Heartbeat, Rhythmic Balanced Interchange or Dynaspheric Force. In the simplest terms *the vortex is comprised of three currents acting as a whole stream or flow* - the same as has been described in Chapter 7 and as shown in Figure 12.5.

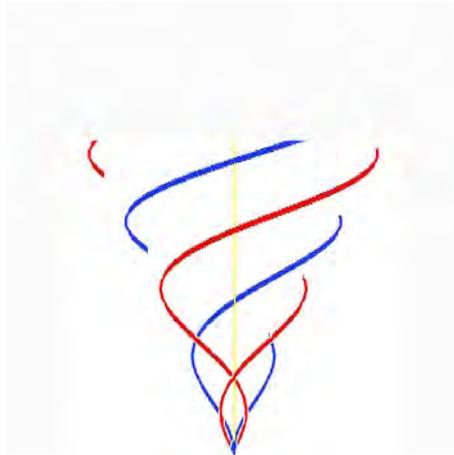


Figure 12.5: Triune Forces of a vortex

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/spiral-stria.jpg>

12.7 Vortex Periphery

The periphery is molecular rotation governed by centrifugal forces counter-balanced by centripetal forces. In this section of the vortex molecular substances (gases, evacuated debris, *etc.*) *orbit* around the vortex rotating center at high velocities and constitutes the visible form of the vortex.

²⁰[antagonism]

12.8 Vortex Wall

The wall or border condition between the still magnetic light and whirling molecular gases is where centripetal forces (syntropy) are transformed to centrifugal energies (entropy). Obviously this conversion zone is created by a dynamic balance between the inward pulling centripetal or syntropic forces of the vacuous etheric center and the outward flinging centrifugal entropic forces maintained by sufficient velocities.²¹

If we picture three tornadoes rotating at 90° to each other would the combined forces tend to enclose themselves to create a sphere much like Keely's description of corpuscles formed via rotating envelopes²²? Of course they would.



Figure 12.6: Typical idealized torus, toroid or “donut” concept

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/donut-idealized.jpg>
(courtesy anonymous web artist)

12.9 Toroid

Idealized toroids are essentially composed of two opposing vortices meeting at their two apices forming a mutual center of neutrality, voidance or transformation. Being resultants of vortex structural components and dynamics they exist by virtue of these defining attributes. Of course, this is a preliminary study and does not include all the myriads of structural and dynamical properties of all the different vortex forms. Please note these dynamics are inherent causative properties and not a mathematical description of phenom-

²¹[Law of Cycles], [Law of Transformation of Forces]

²²[rotating envelopes]

ena which would be elegant in and of itself²³ yet just a facsimile of what is really taking place.

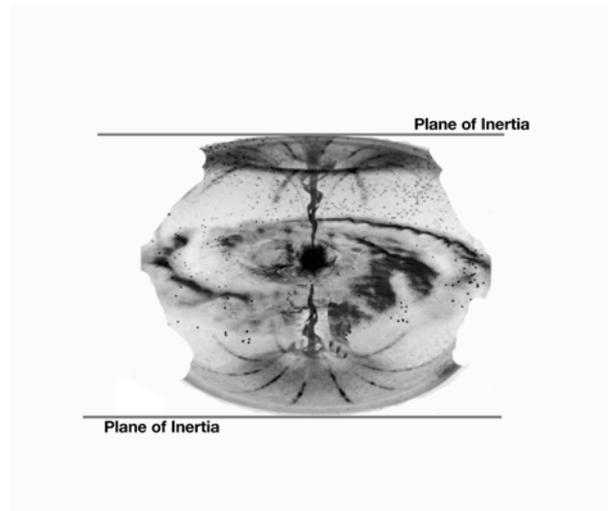


Figure 12.7: Ideally toroids are two vortices meeting apex to apex
Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/donut-inverted-mod.jpg>

12.9.1 Sympathetic Associative Attraction

The two apices come together by virtue of sympathetic associative attraction or syntropy according to the Law of Harmony. They meet in this fashion at Russell's 4++ wave crest where the Law of Cycles kicks in and the Law of Repulsion assumes preponderance.

²³for a good example: <http://vortexmath.webs.com/>

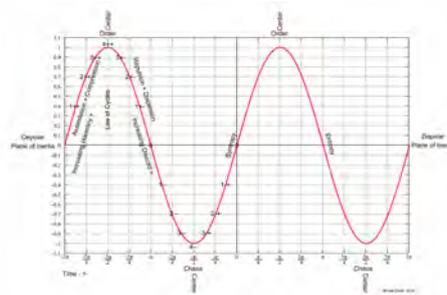


Figure 12.8: Wave elements of Time, Compression and Dispersion
 Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/sine-indig-wave1.jpg>

Figure 12.8 shows an idealized structure of a wave being a sine wave. Some of the functional elements are included for identification purposes. In reality the left upward moving slope is syntropic (Law of Harmony) and will usually be a longer time interval than from upper Center to lower Center (Law of Repulsion) which time may be greatly reduced. This is the time interval when compression (harmony) reverts to dispersion (repulsion) according to the Law of Cycles and may be of negligible duration. Hence the overall sine wave form will become a sawtooth wave as harmonics are generated and synthesized into the wave form according to the same law. An excellent animation of this process can be found on Wikipedia/Sawtooth_wave here:

http://en.wikipedia.org/wiki/Sawtooth_wavemediaviewer/File:Synthesis_sawtooth.gif

12.9.2 Law of Cycle

This sympathetic associative attraction increases until the conditions for the Law of Cycles to assume dominance at which point the sympathetic associative attraction reverts to anti-sympathetic mutually repellant discords²⁴ of increasing amplitudes. These discords will increase until their power of repulsion exceeds the power of attraction at which point the associating forces become repellant and the center discharges at 90° to the formative sympathetic associative forces. Thus forming the expanding energies outward through the equator. Russell proposed a four step compression to the 4++

²⁴By formation of secondary and tertiary pitches not harmonic with the fundamental.

point of transformation discussed in previous chapters²⁵.

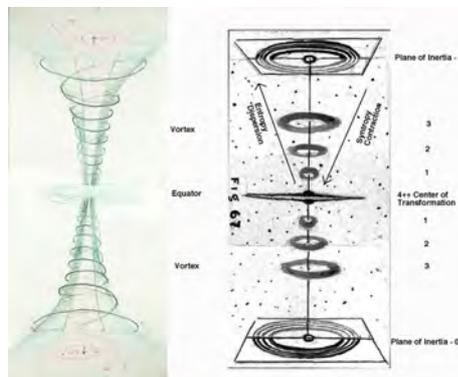


Figure 12.9: Compression to center then equatorial dispersion
 Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/vortex-side-by-side-sm.jpg>
 (courtesy University of Science and Philosophy)

12.9.3 Neutral Center Repulsion

The now highly anti-sympathetic (enharmonic) centralized bipolar center goes ‘critical’ so to speak when the participant substances mutually repel each and all other participant substances as they override the harmonic syntropic forces of attraction and compression. The mutual repulsion occurs 90° to the sympathetic associative forces outwards towards and through the equatorial plane.

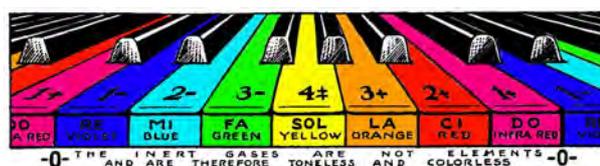


Figure 12.10: 4++ at center of transformation
 Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/4plusplus.jpeg>
 (courtesy University of Science and Philosophy)

²⁵Figure 10.3: Scale of 0 to 4 to 0

12.9.4 Periphery Neutralization or Depolarization

As these substances move away from the center and nearing the end of influence of sympathetic outreach they begin losing their polar condition or state until such point as they become again depolarized or neutralized. The center represents Russell's 4++ state. The polar substances becoming depolar at the 0th state of Russell's Scale of Locked Potentials.²⁶ Beginning at the vortex center with 4++ maximum polarization expanding outward (dispersing according to the Square Law) gradually losing polarization until all polarization is lost (depolarization) at the 0th state of Russells Scale of Locked Potentials which he defines as the Cube Wall of Neutrality, Plane of Inertia or the limit of Keely's sympathetic outreach²⁷. At this Plane of Inertia a reversion takes place where the depolar state becomes polarized and begins the journey back to the 4++ state or condition.

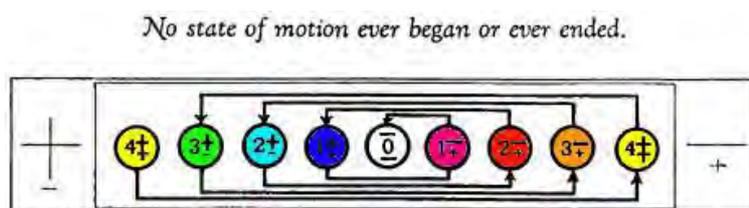


Figure 12.11: Depolar state at plane of inertia
 Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/0-inertia.jpeg>
 (courtesy University of Science and Philosophy)

12.10 Plane of Inertia

We can see from photographs of hurricanes the tops are generally flat. These flat tops appear to coincide with Russell's plane of inertia which coincides with the wall of his cube structures. Physically this is a zone where there is no polarity or is depolar. This extending downward as polarity increases to where the maximum (4++) zone is reached at or near the surface of the earth where most polarity occurs and hence the most violent action or motion.

²⁶[12.01 - Scale of Locked Potentials]

²⁷[sympathetic outreach]

12.11 Free Space

With hurricanes and tornados the plane of inertia is in higher altitudes if not space itself and the vertex at the surface of the earth are mostly molecular structures and are bound by gravity and other terrestrial dynamics. In the case of free forming quantum entities these bounds do not exist as these formations form in etheric space or vacuum. According to Keely and Russell there are two vortices per axis coming together at their mutually attractive centers or vortices making six in number. Do all six have the exact same wave function? No, else they would all be exactly the same which is an impossibility.

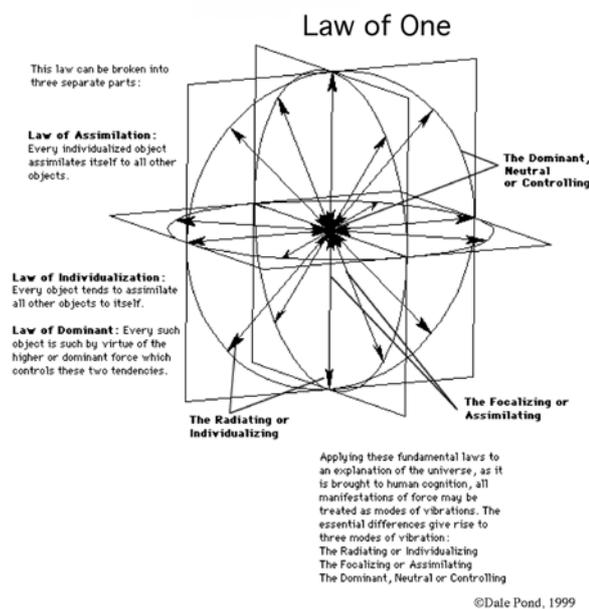


Figure 12.12: Triune polar forces as One Force about a common center
 Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/triune-modes-motion.jpg>

Following the logic of Russell's cosmogony there are virtual 'cubes' in Free Space having six sides. These six sides are the planes of inertia or depolarization. These correspond to Keely's juxtapositioning of atomolic centers of mutual attraction which would be an alignment with the X, Y and Z vectors each forming their own respective virtual cubes as these would align

with the planes of said virtual cubes. Therefore there would be three of these double vortices forming along these vectors, each 90° to the others. Each would possess its own center line of mutual attraction. At the compound center there would therefore be three atomolic (etheric) centers of mutual attraction and six vortices.

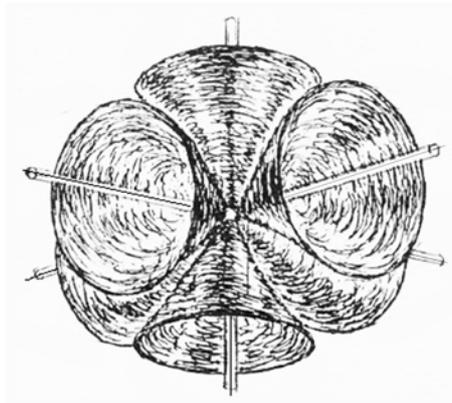


Figure 12.13: Three double vortices

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/3d-vortices.jpeg>
(courtesy anonymous web artist)

According to Keely these atomolic centers bear the burden of all structure and motion it controls. Consequently each of the three centers is autonomous and independent of the other two though the three mutually interact to some degree and manner yet to be determined as they mutually occupy the same coordinates at the center of the structure.

Therefore a quantum or etheric torus would have three orthogonal axes each with two mutually attracted vortices. This compound torus would in structure be a compound spheroid with a surface of complex motions or encapsulated rotating envelops²⁸ so long as their three centers are coincident.²⁹

²⁸[rotating envelope]

²⁹[Etheric Capsule], [AFFINITY OF ETHERIC CAPSULES], [DISINTEGRATION OF ETHERIC CAPSULE], [ROTATION OF THE ETHERIC CAPSULE], [MEASURING THE VELOCITY OF THE ETHERIC CAPSULE]

12.12 Etheric Envelopes

Here is one of the concepts where Keely and Russell diverge in their theories. Russell has the three planes and six vortices. Keely has the three planes as axis where the etheric substance rotates at 90° to the axis resulting in an envelope or shell spinning at tremendous velocities establishing the circumference of the centralization³⁰. This results in three envelopes or shells spinning at 90° to each other thus forming the entirety of the corpuscle. Each shell acts together geometrically to fully enclose the corpuscle as they seal each others' non-rotating poles.

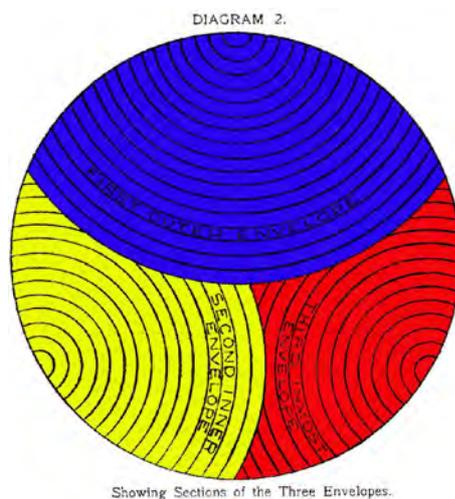


Figure 12.14: Keely's three envelopes or shells

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/envelopes.jpg>

³⁰[Figure 7.3 - Step 3 - Sphere Forms Orthogonally Triple Compressing Shell Layers]

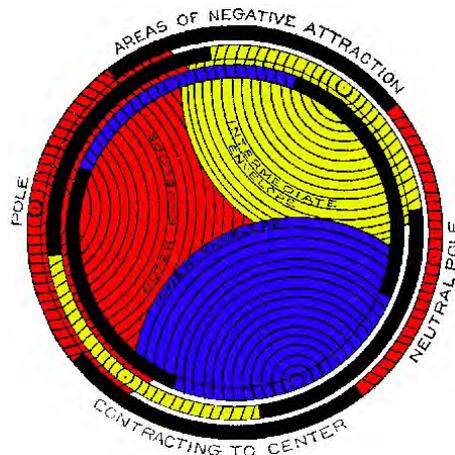


Figure 12.15: Three overlapping envelopes or shells sealing poles

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/sealedpoles.jpg>

This configuration³¹ is fundamentally important to Keely's work with splitting the atom or molecule releasing its latent forces bound within. He said the ether (quantum substances) when given sufficient velocity will rotate and centripetally seek its controlling neutral center. The greater the velocity the greater the syntropic force the greater the compression inward and greater the contained latent energy to be liberated. He did this by manipulating these envelopes or shells rupturing them whether instantly or gradually.³²³³³⁴

It is not the purpose of this book to go into the details of how Keely manipulated these molecular and atomic envelopes (splitting the atom) to produce his etheric vapor and other forces and quantum substances. To do so would require a doubling or more of its volume (and time to write) and it is already near too much to digest. Perhaps a subsequent volume would be appropriate covering his dissociation and disintegration processes³⁵ with water and other

³¹[Figure 4.12 - Keelys Formative Structural Dynamic Morphology]

³²[15.18 - Keelys Process for Liberating Ether from Water]

³³[Vibratory Physics - True Science]

³⁴[Etheric Vapor]

³⁵[Aqueous Disintegration], [THEORY AND FORMULA OF AQUEOUS DISINTEGRATION], [DISINTEGRATION OF ETHERIC CAPSULE], [Disintegration], [Dissoci-

elements.

Chapter 13

Electricity and Magnetism

13.1 Electricity is a Polar State Dipole

Contrary to popular belief the common generator of electricity flow or current does not generate electrons then pushes them along a conductor. The generator creates a polarity, potential, dipole or bias between the positive electricity and negative electricity streams where prior to this condition of separation neither pole seemed to exist. This creation of this bias or potential is in fact a differentiation or splitting into three flows of an undifferentiated compound triune flow.

“I believe electricity to be a substance, not a force.”¹

“Electricity is the result of three differentiated sympathetic flows, brought together by combining the celestial flow with the terrestrial flow through a certain degree of “negative attractive assimilation”. Electricity is one of Nature’s efforts toward restoring “attractive differentiation” for it has the highest degree of assimilative affinity.”²

13.1.1 Voiding the Dipole or Polarity

Once the two (dipole) electric streams are created, thus creating a potential, they have a natural tendency to re-emerge or assimilate each other through

¹Keely quoted in [Pittsburg Dispatch April 07-1890]

²[Keely in SYMPATHETIC STREAMS - Snell]

voiding as Russell calls it and neutralization or depolarization as Keely calls it. This voiding, neutralization or depolarization is accomplished by providing a conductor and a place or load where the separated streams can and will recombine, re-emerge, unite, assimilate or void the created polarity, dipole or bias - returning back to their natural undifferentiated state. Heat, light and rotation are produced at the point of voiding, neutralization or depolarization by the interaction (antagonism) of these streams against each other.

13.1.2 Conduction

The conduction of the electric current along a conductor is governed by Keely's Law of Electric Conductivity.

13.1.3 Polar and Depolar States

An electric dipole is mutually attractive and will do everything possible to neutralize itself.

A magnetic dipole is mutually repulsive and will retain its polar state.

The difference between these two states of attraction and repulsion is explained in Keely's Law of Attraction and Law of Repulsion - governed by or as explained in the Laws of Being. See also [Bjerknes Effect]

13.2 Keely on Electricity

Should we bring our understanding from previous chapters to bear upon electricity and magnetism a paradigm forms somewhat different than the standard model but which appears to make sense and evidently works as Keely produced electricity from etheric space (vacuum) in 1893.³

"Nikola Tesla, for reasons that need not be explained, would not have been able to serve on the committee. It is well known that he is striving to draw power from space by purely scientific methods, which Keely succeeded in doing

³[Dogmatism of Science], [Keely - Electricity from Space], [Newton of the Mind], [Free Energy], [The Operation of the Vibratory Circuit]

in 1893 by “unscientific methods.”⁴

“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. In analyzing this triple union in its vibratory philosophy, I find the highest order of perfection in this assimilative action of Nature. The whole condition is atomic, and is the introductory one which has an affinity for terrestrial centres, uniting magnetically with the Polar stream; in other words, uniting with the Polar stream by neutral affinity. The magnetic or electric forces of the earth are thus kept in stable equilibrium by this triune force, and the chords of this force may be expressed as 1st, the dominant, 2nd, the harmonic, and 3rd, the enharmonic. The value of each is, one to the other, in the rates of figures, true thirds. E flat - transmissive chord or dominant; A flat - harmonic; A double flat - enharmonic. The union of the two prime thirds is so rapid, when the negative and the positive conditions reach a certain range of vibratory motion, as to be compared to an explosion. During this action the positive electric stream is liberated and immediately seeks its neutral terrestrial centre, or centre of highest attraction.”

⁴Bloomfield-Moore in [Dogmatism of Science], [Keely - Electricity from Space]

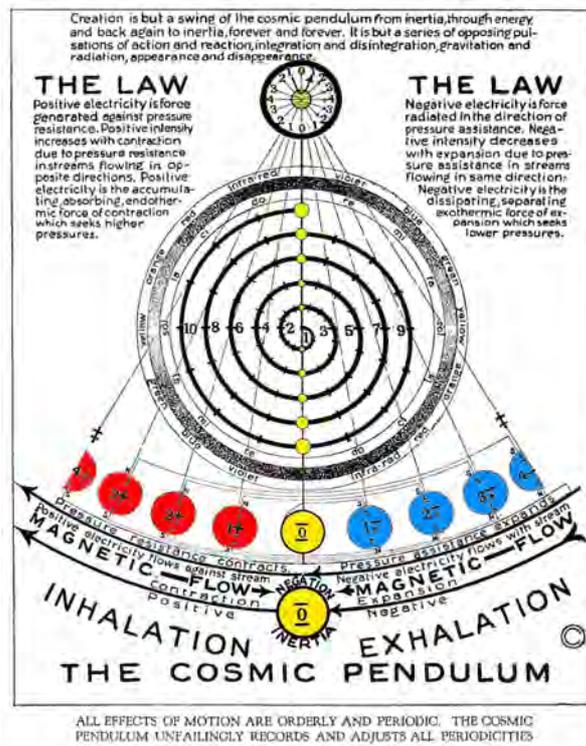


Figure 13.1: Neutral Center governing seeming opposite potential states

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/cosmic-pendulum.jpg>
(courtesy University of Science and Philosophy)

“The power of attractive vibration of the solar forces is the great coincident towards which the terrestrial magnetic sympathetic flow is diverted. This force is the celestial current that makes up the prime third of the triple association. It also induces aqueous disintegration⁵ and thermal concentration, the two prime conductors towards this coincident chord of sympathy with itself. Without this aqueous disintegration there would be no connective link⁶ between the celestial and terrestrial. There would exist nothing but a condition of luminous radiation on the order of the aurora - a reaching out for the concordant without any sympathetic diversion to create unstable equilibrium of terrestrial magnetism. In fact under such a condition, the absence

⁵[aqueous disintegration]

⁶[connective link]

of the sun on one side, or the absence of water on the other, the magnetic or electric force would remain in a stable state of equilibrium, or the highest order of the chaotic. Disturbance of equilibrium⁷ and sympathetic equation⁸ constitute the dual power that governs all the varied forms of life and motion which exist terrestrially, of which the electric or magnetic is the prime mover and regulator. All electrical action, no matter of what character, has its sympathetic birth by the intervention of that current of the triune flow, which I call the dominant, with the polar harmonic current; all sympathetic flows being composed of three currents. They become associative one with the other only near the junction of terrestrial interference. The great vacuous field which exists between the planetary ranges holds this portion of the etheric flow free of all antagonism⁹, molecularly or otherwise, till the associative point is reached; so wonderfully planned by the Great Creator, for instant electric evolution and assimilation with terrestrial centres of attraction. I call this intervention, atomic intermolecular and molecular density. The combination of the action of the triune sympathetic celestial stream with the same intervening medium induces heat and light as the resultant of these corpuscular confliction with sympathetic celestial and terrestrial focalized centres of neutral radiation. I do not recognize electricity, nor light, nor heat as coming from the sun. These conditions, according to my theories, emanate from atomic and interatomic interference on induced molecular vibration, by sympathetic etheric vibration, the celestial attractive being the prime mover. In my estimation this is not at all phenomenal; it is only phenomenal as far as the knowledge of its action in mechanical physics is concerned. Physicists have been working in the wrong direction to lead them to associate themselves with Nature's sympathetic evolution. The expression "Electricity attracts at a distance" is as bad as, if not worse than, the "microbe of the magnet." Clerk Maxwell seems, when theorizing on sound transmission by an atmospheric medium, not to have taken into consideration the philosophy attending the phenomena of the origination of electric streams in celestial space. Light is one of the prominent evolved mediums in electric action, and is evolved by corpuscular bombardment¹⁰ induced by sympathetic streams acting between the neutral centres of planetary masses, all of which are under a condition of unstable equilibrium. These unstable condition were born in them, and were

⁷[Disturbance of equilibrium]

⁸[sympathetic equation]

⁹[antagonism]

¹⁰[INTERATOMIC BOMBARDMENT], [bombardment]

thus designed by the Architect of Creation in order to perpetuate the connective link between the dispersing positive and the attractive negative. The action that induces this link I call sympathetic planetary oscillation.¹¹

“Light is induced by electromagnetic percussion emanating from the ether, and in its action represents the plane of magnetism. In fact, it is the plane of magnetism when under polarization. (Platina wires the thickness of a fine hair associated with each of the nine nodal beads, and concentrated towards a general center of focalization, attaching the other end of the wires to the focal center, will determine, by the magnetic conduction, the number of corpuscular oscillations per second induced by a thought, either positive or negative, in the central centers. These are the only conditions - those of magnetic conduction - whereby the evolution of a thought can be computed in regard to its force under propagation, as against the amount of latent energy set free to act as induced by such thought on the physical organism.) Some scientific theories of the past have taught us that electricity and magnetism are one and the same thing. Sympathetic vibratory philosophy teaches that they are two distinct forces of one of the triune sympathetic family.”¹² (underline added)

“Maxwell’s theory¹³ is correct that the plane of polarized light is the plane of magnetic force. The sympathetic vibrations associated with polarized light constitute the pure coincident of the plane of magnetism. Therefore, they both tend to the same path, for both are interatomic, assimilating sympathetically in a given time, to continue the race together, although one precedes the other at the time of experimental evolution. The time is approaching when electromagnetic waves with an outreach of two feet will be produced, having an energy equal to that now shown up on the magnet when it is about to kiss its keeper, and showing a radiating force too stupendous for actual measurement.”¹⁴

“Professor Fitzgerald’s¹⁵ lecture on electromagnetic radiation shows that sci-

¹¹[Vibratory Physics - The Connecting Link between Mind and Matter]

¹²Snell, [Snell Manuscript]

¹³[Maxwell Equations]

¹⁴[Snell], [Snell Manuscript]

¹⁵[Professor George Francis Fitzgerald, Irish professor 1851-1901, specializing in electromagnetic theory and physics.]

entific men are beginning to realize and that fairly, the truths appertaining to the new philosophy. The professor admits that electricity and magnetism are of differential character and he is right. The progressive subdivision, induced by molecules by different orders of sympathetic vibration, and the resultant conditions evolved on the intermolecule¹⁶ and interatom¹⁷, by introductory etheric dispersion, prove that the magnetic flow of itself is a triple one, as is also the electric."¹⁸

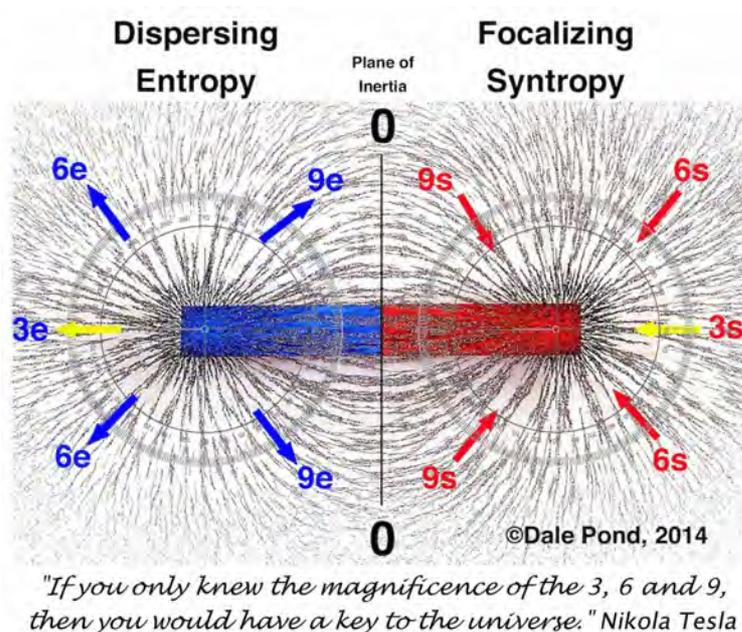


Figure 13.2: Triune Forces of Magnetic Field in Magnet

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/Forces.jpg>

Keely says the iron of the magnet has no magnetism of itself. The iron atoms of the magnet diverts a portion of the terrestrial streams. In the above image this diversion is clearly shown where the streams come into the South pole and exit via the North pole. Also shown are the two modes of Syntropy (s), Entropy (e) as also the 3, 6 and 9 modes. His explanation is:

¹⁶[intermolecule]

¹⁷[interatom]

¹⁸[Snell], [Snell Manuscript]

*“The explanation of the magnetic flow is very simple. The harmonic attractive chord, thirds, induces nodal interference on the harmonic current in the earth’s polar stream, and it moves toward the negative pole to flow out through the positive end. The diversion of the harmonic portion of the stream from the dominant portion causes the magnet to assume its position.”*¹⁹

*“Again, the professor says that electricity and magnetism would be essentially interchangeable if such a thing existed as magnetic conduction, adding: “It is in this difference that we must look for the difference between electricity and magnetism.” Thus you see how plain it is that progressive scientists are approaching true science. The rotation of the magnetic needle²⁰, as produced in my researching experiments, proves conclusively that the interchange spoken of, in Professor Fitzgerald’s lecture, is a differentiated vibratory one, in which the dominant and enharmonic forces exchange compliments with each other, in a differential way, thus inducing rotation, in other words polarization and depolarization.”*²¹

*“In electric lighting, the velocity of the dynamos accumulates only the harmonic current - by atomic and interatomic conflict - transferring one-two hundred thousandth (1/200,000) of the light that the dominant current would give, if it were possible to construct a device whereby it could be concentrated and dispersed.”*²²

13.3 Russell on Electricity

*“Electricity is the servant of the God-Mind. Electricity expresses the desire in the God-Mind for creative expression by seemingly dividing the One still light into transient waves of spectrum divided positive-negative colors of light.”*²³

“Electricity is the motivative force which projects the One Light of Mind two ways to create cycles of light waves for the purpose of expressing thought

¹⁹[POLARIZATION AND DEPOLARIZATION]

²⁰[4.2.5 - Rotation of Compass Needle], [DISTURBANCE OF MAGNETIC NEEDLE]

²¹[Snell], [Snell Manuscript]

²²[Snell], [Snell Manuscript]

²³Russell, [The Secret of Light], page 50

cycles.²⁴ (underline added)



Figure 13.3: White Light of Mind divided into red and blue halves

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/red-blue.jpg>
(courtesy University of Science and Philosophy)

“Electricity is the divider of the invisible white still magnetic light of gravity - which Mind is - into the red and blue halves²⁵ of the visible light spectrum for the purpose of creating male and female bodies which alone constitute all matter.”²⁶

“As servant of Mind, electricity gives moving form to the idea by performing the work necessary to produce it.”²⁷

“Electricity is forever winding light up into hot spheres, surrounded by cold cube wave-fields of space, and likewise sequentially unwinding them for rewinding. While winding them into compressed light masses, they are simultaneously unwinding to a lesser extent. Conversely, while unwinding they are simultaneously rewinding to a lesser extent.”²⁸

²⁴Russell, [The Secret of Light], page 57

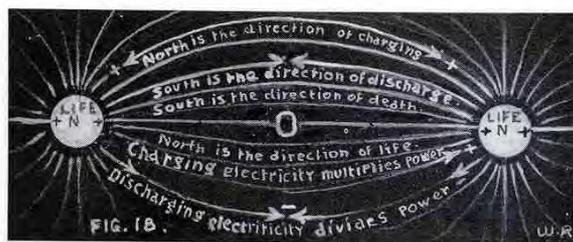
²⁵[chemism], [rad-energy]

²⁶Walter Russell, notation on chart, 1955.

²⁷Russell, [The Secret of Light], page 114

²⁸Russell, [The Secret of Light], page 124

“The farther removed from rest, the greater the strain or tension. That which we call high electric potential is merely great strain to maintain a condition which is far from the condition of rest.”²⁹



A study of Fig. 18 together with the bar magnet diagrams and other polarity diagrams shown in Figs. 11 to 16 will prepare you for a better understanding of the nature of electricity and the electric current.

Figure 13.4: Attractive (syntropic) power of electricity

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/attractive-electricity.jpg>
(courtesy University of Science and Philosophy)

“Electricity is the strain or tension set up by the two opposing desires of universal Mind thinking - the desire for balanced action and the desire for rest.”³⁰

“Electricity creates Life by dividing stillness into two-way [polar] motion. It creates death by rest (depolar) from motion.”³¹

²⁹Russell, [The Secret of Light], page 139

³⁰Russell, [The Secret of Light], page 139

³¹Russell, [Atomic Suicide]?; Figure 9 and 10, page 88]

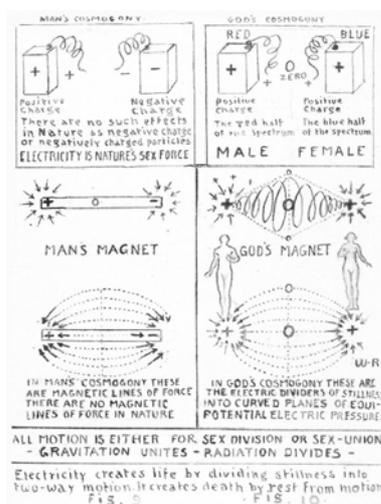


Figure 13.5: Polar dynamics of electricity

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/fig-9-10-88-bw.jpg>
(courtesy University of Science and Philosophy)

“Electricity is the strain or tension set up by the two opposing desires of universal Mind thinking - the desire for balanced action and the desire for rest.”³²

“As rest cannot be unbalanced save by illusion, electricity which causes that illusion has no existence.”³³

“Electricity is the servant of Mind. It does all of the work of creating this light-wave universe in unfolding-refolding sequences which Mind desires. The universal Mind has two desires - the desire for creative expression through the action of concentrative (polar) thinking and the desire for rest from action through decentrative (depolar) thinking.”³⁴

³²Russell, Walter; [The Secret of Light], page 139

³³Russell, [The Secret of Light], page 141

³⁴Russell, [The Secret of Light], page 144

13.4 Tesla on Electricity

“The day when we shall know exactly what electricity is will chronicle an event probably greater, more important, than any other recorded in the history of the human race.”³⁵

Below is a quote from William Lyne’s book³⁶ discussing Tesla’s ideas about electricity and magnetism. We will see Tesla’s ideas were decidedly different than Keely’s or Russell’s. Incidentally Tesla knew of Keely and he knew Russell personally s mentioned in Russell’s ‘Atomic Suicide?’ book.

In his 1891 A.I.E.E. lecture at Columbia College, Nikola Tesla said in pertinent part: *“What is electricity, and what is magnetism “...We are now confident that electric and magnetic phenomena are attributable to the ether, and we are perhaps justified in saying that the effects of static electricity are effects of ether in motion”. “...we may speak of electricity or of an electric condition, state or effect”. “...we must distinguish two such effects, opposite in character neutralizing each other”. “...for in a medium of the properties of the ether, we cannot possibly exert a strain, or produce a displacement or motion of any kind, without causing in the surrounding medium an equivalent and opposite effect.” “...its condition determines the positive and negative character.” “We know that it acts like an incompressible fluid;” “...the electro-magnetic theory of light and all facts observed teach us that electric and ether phenomena are identical.” “The puzzling behavior of the ether as a solid to waves of light and heat, and as a fluid to the motion of bodies through it, is certainly explained in the most natural and satisfactory manner by assuming it to be in motion, as Sir William Thomson³⁷ has suggested.” “Nor can anyone prove that there are transverse ether waves emitted from an alternate current machine; to such slow disturbances, the ether, if at rest, may behave as a true fluid.”*

In his statements, Nikola Tesla was balancing the various arguments in preparation for his decision: *“...Electricity, therefore, cannot be called ether in the*

³⁵[Nikola Tesla]

³⁶Summation of Tesla’s Dynamic Theory of Gravity; An excerpt from: Occult Ether Physics by William R. Lyne

³⁷[William Thomson], 1st Baron Kelvin OM, GCVO, PC, PRS, PRSE, (26 June 1824 - 17 December 1907) was a Belfast-born British mathematical physicist and engineer.

broad sense of the term; but nothing would seem to stand in the way of calling electricity ether associated with matter, or bound ether; or, in other words, that the so-called static charge of the molecule is ether associated in some way with the molecule.”

“...It cannot differ in density, ether being incompressible: it must, therefore, be under some strain or in motion, and the latter is the most probable.”

Nikola Tesla obviously believed in an ether (quantum substances) which was in motion relative to earth, because the earth is in motion.

The thing which Nikola Tesla had realized, was that ether possesses electric charges which are deposited on or contained within atoms. In supporting the “dynamic” ether concept, he was supporting the “stationary ether” concept, since the “motion” he referred to was “apparent” motion of the ether perceived by an observer on earth, relative to a stationary ether.

The importance of cosmic motion to the electromagnetic effects of static charges was brought up by Nikola Tesla in his lecture: *“About fifteen years ago, Professor Rowland³⁸ demonstrated a most interesting and important fact, namely, that a static charge carried around produces the effects of an electric current.”* *“...and conceiving the electrostatically charged molecules in motion, this experimental fact gives us a fair idea of magnetism. We can conceive lines or tubes of force which physically exist, being formed of rows of directed moving molecules; we can see that these lines must be closed, that they must tend to shorten and expand, etc. It likewise explains in a reasonable way, the most puzzling phenomenon of all, permanent magnetism, and, in general, has all the beauties of the Ampere theory without possessing the vital defect of the same, namely, the assumption of molecular currents. Without enlarging further upon the subject, I would say, that I look upon all electrostatic, current and magnetic phenomena as being due to electrostatic molecular forces.”*

In these statements, Nikola Tesla showed he was aware that any “stationary” locale on earth is actually in fantastic motion (“70,000 mph”). The electro-

³⁸[Henry Augustus Rowland] (November 27, 1848 April 16, 1901) was a U.S. physicist. Between 1899 and 1901 he served as the first president of the American Physical Society. He is remembered today particularly for the high quality of the diffraction gratings he made and for the work he did with them on the solar spectrum.

static charges “carried around” are currents between atoms and the ether, which produce magnetism. The phenomena of ‘permanent magnetism’ or ‘cosmically induced’ magnetism are apparently due to electrostatic charges ‘carried around’ by cosmic motion, in the universal ether field.

Since no one can hold an atom or molecule perfectly still - because it is in fantastic motion - all atoms and molecules carry currents producing magnetic fields. Since a magnetic field is the product of a current, no one can produce a magnetic field without electricity, moving through or along a conductor, or as electrostatic charges in local or cosmic motion.”³⁹

“Now, I must tell you of a strange experience which bore fruit in my later life. We had a cold snap observed even drier than before. People walking in the snow left a luminous trail. As I stroked Macak’s back, it became a sheet of light and my hand produced a shower of sparks. My father remarked, this is nothing but electricity, the same thing you see on the trees in a storm. My mother seemed alarmed. Stop playing with the cat, she said, he might start a fire. I was thinking abstractly. Is nature a cat? If so, who strokes its back? It can only be God, I concluded. I can not exaggerate the effect of this marvelous sight on my childish imagination. Day after day I asked myself what is electricity and found no answer. Eighty years have gone by since and I still ask the same question, unable to answer it.” Tesla⁴⁰

13.4.1 Summary

Keely’s definition of electricity in this writer’s opinion seems to address the issue best of the three because he details causative forces - when allied with some of Russell’s ideas. More research into Tesla’s ideas is required. We know ether is quantum and supports electric and magnetic phenomena. To fully understand Keely’s definition requires a re-education to more fully grasp his concepts discarding (or at least setting aside) descriptions of phenomena (effects) to the contrary.

³⁹Summation of Tesla’s Dynamic Theory of Gravity; An excerpt from: Occult Ether Physics by William R. Lyne

⁴⁰Nikola Tesla - Lord of Lightning; by Nikola Tesla , edited by William Kern

Chapter 14

Gravity

14.1 Keely on Gravity

“Gravity is nothing more than an attractive, sympathetic stream¹, flowing towards the neutral center of the earth, emanating from molecular centers of neutrality; concordant with the earth’s centers of neutrality, and seeking its medium of affinity with a power corresponding to the character of the molecular mass. Gravity, he defines as transmittive interetheric force under immense etheric vibration. He continues: - The action of the mind itself is a vibratory etheric evolution, controlling the physical, its negative power being depreciatory in its effects, and its positive influence elevating.”²

“Gravity is transmittive interetheric force under immense etheric vibration.”³

“Gravity is the mutual attraction of atomoles.”⁴

“Gravity is an eternal existing condition in etheric space, from which all visible forms are condensed. It is inherent in all forms of matter, visible and invisible. It is not subject to time or space. It is an established connective link⁵ between all forms of matter from their aggregation. Time is annihilated by it, as it has already traversed space when the neutral centers

¹[sympathetic stream]

²[Keely and His Discoveries], Chapter 5

³Keely

⁴Keely

⁵[connecting link]

of the molecules were established. It is nothing more than an attractive, sympathetic stream, flowing towards the neutral center of the earth, emanating from molecular centers of neutrality, concordant with the earth's centers of neutrality and seeking its medium of affinity with a power corresponding to the character of the molecular mass.”⁶

“Nature has established her sympathetic concordants from the birth of the neutral centres of the planets. This is gravity; therefore gravity is fixed, inherent. There is no flight of gravity.”⁷

“Gravity is polar propulsion the sympathetic concordant of the ninths and but one of the triune combinations. Magnetism is polar attraction, while gravity is polar propulsion. By proper vibrations, the action of both magnetism and gravity can be intensified or accelerated.”⁸

“The sympathetic outreach⁹ of negative attraction¹⁰ is the power that holds the planetary masses in their orbital ranges of oscillatory action.”¹¹

“Gravity is not subject to time or space. It pervades the universe without reference to time or space, instantaneously and without intermission. It is, however, a sympathetic flow, proceeding from the molecular or mass neutral centers to the earth's neutral center with a power corresponding to the character of each individual molecular mass.” He [Keely] believed gravity dependent on the medium of the polar stream, for he says *“If the sympathetic negative polar stream were cut off from the earth the molecular neutral centers would float away into space like a swarm of bees.”*

“Under my system the gravital flow comes under the order of the “sympathetic concordant of the ninths” and is that third of the triune combination called the “polar propulsive.” Gravity is polar propulsion while magnetism is polar attraction. Both magnetism and gravity can be accelerated by proper

⁶John Worrell Keely circa 1886, [Snell Manuscript]

⁷[Snell Manuscript]

⁸MAGNETIC ENGINE - Snell]

⁹[sympathetic outreach]

¹⁰[7B.18 - Sympathetic Negative Attraction], [negative attraction], [Neutral Negative Attraction], [polar negative attraction], [Sympathetic Negative Attraction]

¹¹Keely, [Snell Manuscript]; [Sympathetic Negative Attraction]

vibrations.

“He believed gravity to be the result of a law which provides for a reversion of attraction in repulsion, and which acts by transmission of force under immense etheric vibration through the “interetheric subdivision.” He also showed that gravitation acts “as a lever.” MacVicar states “Every individualized object assimilates itself to itself in successive moments of its existence and all objects tend to assimilate one another.” Keely says “Gravity is an ever existing eternal force, coexistent with the compound etheric or high luminous (seventh subdivision) since it entered into, and is an inherent property of, all forms of aggregated matter from their birth. It is the source from which all matter originated and each substance-unit or neutral center is a concordant link, attractive and dispersive, to all other neutral centers. Each neutral center is the nucleus of what we recognize as substance and is potentially the nucleus of a planet.”¹²

14.2 Keely and anti-gravity

Keely not only had a working theory of what gravity is and how it functions he also developed experimental models which he demonstrated to scientists of his time and an actual heavier-than-air flying craft.¹³

From Dashed Against the Rock - *“A small instrument, having three gyroscopes as a principal part of its construction, is used to demonstrate the facts of aerial navigation¹⁴. These gyroscopes are attached to a heavy, inert mass of metal, weighing about one ton. The other part of the apparatus consists of tubes, enclosed in as small a space as possible, being clustered in a circle. These tubes, represent certain chords, which were coincident to the streams of force acting upon the planet, focalizing and defocalizing upon its neutral center. The action upon the molecular structure of the mass lifted was based upon the fact that each molecule in the mass possessed a north and south pole, - more strictly speaking, a positive and negative pole, - situated through the center, formed by the three atoms which compose it. No mat-*

¹²[GRAVITY - Snell]

¹³[air-ship], [Air-ship model], [Figure 19.17 - Keelys Air-ship], [17.15 - Theory of Vibratory Lift for Air-ships]

¹⁴[aerial navigation]

ter which way the mass of metal is turned, the poles of the molecule point undeviatingly to the polar center of the earth, acting almost exactly as the dip-needle when uninfluenced by extraneous conditions, electrical and otherwise. The rotation of the discs of the gyroscopes produces an action upon the molecules of the mass to be lifted, reversing their poles, causing repulsion from the earth in the same way as like poles of a magnet repel each other. This repulsion can be diminished and increased according as the mechanical conditions are operated. By operating the three discs, starting them at full speed, then touching two of them, so as to bring them, according to the tone they represented by their rotation, to a certain vibratory ratio, the weight then slowly sways from side to side leaves the floor, rising several feet in the air, remaining in that position, and as the discs gradually decrease their speed of rotation the weight sinks to the floor, settling down as lightly as thistle-down. Where one molecule can be lifted, there need be no limit as to the number in a structure that may be operated upon as easily as one. The vessel in contemplation, the aerial navigator, will be over two hundred feet long, over sixty feet in diameter, tapering at both ends to a point, made of polished steel, and will be capable of being driven under the power of depolar repulsion, at the rate of three hundred miles an hour. It can be far more easily controlled than any instrument now in use for any phase of transit. Another very remarkable feature connected with this system of aerial navigation, is that the vessel is not buoyed up or floated in the air through the medium of the air, so that if there were no atmosphere it would float just as readily; hence, under mechanical conditions most certainly capable of production, involving massive strength of resistance to interstellar vacuity this can be made capable of navigating even the remote depth of space, positions between planets where polarity changes being controlled by other adjuncts of concentration for that purpose.

“Safely enclosed within this structure, a man possessing the chemical knowledge these new laws¹⁵ give, with sufficient supply of material from which to make oxygen, by the enormously increased rate of speed attained by such navigator where atmospheric friction is avoided, the time occupied in traveling from one planet to another would be amazingly brief, and one can travel to other planets in this system of worlds as easily as the same ship could navigate the depths of the ocean.

¹⁵[Keelys Forty Laws]

“The great obstacle hitherto preventing the solution of this problem has been the strength of structure needed under conditions above presented. With this knowledge of matter, the size of structure is unimportant; the heaviest can be as easily controlled as the lightest.”¹⁶

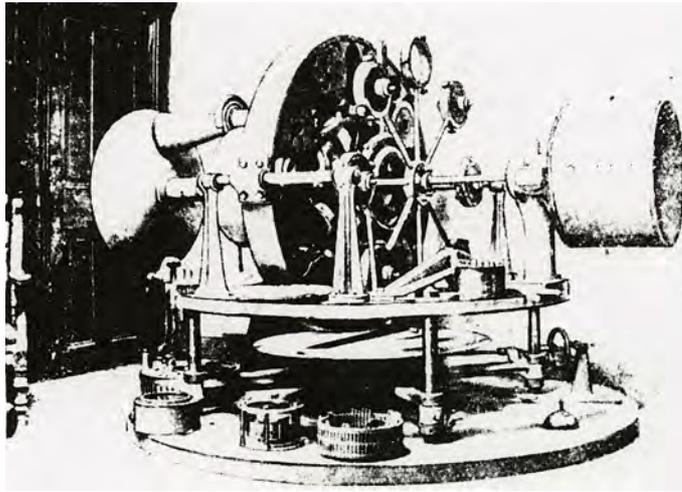


Figure 14.1: Keely's experimental air ship

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/air-ship-photo.jpeg>

14.3 Levitation experiments

No less intriguing are Keely's experiments showing principles of levitation.

¹⁶[Levitating Gyroscopes], [Dashed Against the Rock]

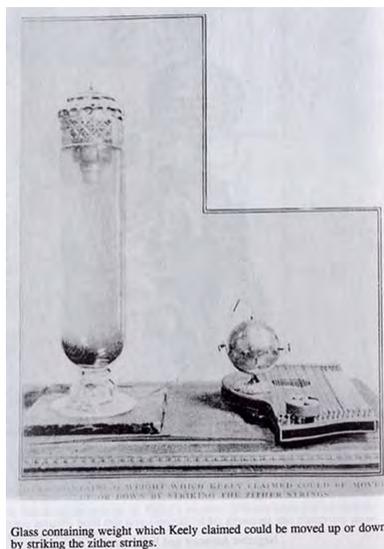


Figure 14.2: Levitating weights

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/anti-gravity-keely.jpg>

From **Pittsburg Dispatch April 07, 1890** - Mr. Willcox¹⁷ and Dr. Leidy¹⁸ then examined the platinum wire, the metal disk on which the magnetic needles rested, the cupboard, the base of the cupboard and the table on which the disk and needle rested. When asked if there was, in his opinion, any possibility that the force which made the needle revolve¹⁹ was electricity, compressed air or steam, Dr. Leidy looked thoughtful and said he could not see the possibility of any of those forces producing the result attained.

“What you have seen was shown you in order to illustrate the ease with which this force can be made to do work,” said Keely.

“Of course the work just done was trifling. But I hope now to show you what will look very differently.”

¹⁷Dr. James M. Wilcox, PhD, [Wilcox]

¹⁸[Joseph Leidy] (September 9, 1823 - April 30, 1891) was an American paleontologist. Leidy was professor of anatomy at the University of Pennsylvania, and later was a professor of natural history at Swarthmore College.

¹⁹[4.2.5 - Rotation of Compass Needle], [DISTURBANCE OF MAGNETIC NEEDLE]

He pointed out then two glass jars, such as chemists use, on a table near by. The jars were of the same size, about 40 inches high, and 10 inches in diameter. They were filled with what is said to be, and certainly smelled and tasted like, Schuylkill²⁰ water. In the bottom of one jar lay a copper globe, cut in half to show, Keely said, just what it was; and filled, in each hollow half, with iron nails.

Another Peculiar Experiment.

In the other jar were three brass balls of different sizes. The copper globe and nails were weighed by Dr. Leidy and found to kick the beam at five pounds and six ounces. The brass balls or eggs they were egg-shaped, weighed less. Everybody sat down after the weighing and Keely fastened another “platinum silver wire” to the cylinder on the cupboard and, detaching the one already in use from the magnetic needle disk was about to fasten the loose ends of each to the metal disks that covered the tops of the jars when some one asked if the wires were “hollow.” The suggestion was followed by a smile from Keely, who at once cut off the end of one of them and handed it around.

“Prof. Rowland, of Baltimore, [had] declared that this was a fraud, because the wires were hollow,” said the woman, “but Keely asked him how he could explain what Keely did even on the hypothesis that the wires were hollow and he didn’t answer. Then Keely got mad and would not let him cut the wire, as he wanted to do.”

Dr. Leidy followed everything closely. Keely fastened the loose ends of both wires into the metal caps of the cylinders.

The String an Important Feature.

Again he spun the spindle on his cupboard with the twine string he had used before. Again with his gnarled fingers, the joints of the first two fingers of his right hand being as big as walnuts, he pounded the “harp” in the cupboard and the resonant bars on top of it.

“What are you doing now?” asked Dr. Leidy.

²⁰river that passes through Philadelphia

“I am trying” said Keely, *“to get the mass chord of that copper sphere full of nails. Every aggregation of molecules or of matter, I claim, or, in other words, every mass of matter, has a sympathetic chord, through the medium of which I can operate my vibratory force.”*

The chord was not found for some minutes. Again the spindle was spun by the help of the twine, and its whizz [sic] was distinct in the silence of the room. The search for the mass chord continued on the “harp” and the resonant rods. A deep, clear note resounded from both at the same time, and at the instant it broke on the ear the heavy copper globe quivered as it lay at the bottom of the water, rolled over, reluctantly as it were abandoning the ties by which gravity held it to the bottom of the jar, floated at first slowly, and then more swiftly and steadily to the top of the jar, against which it impinged with an audible concussion.

Gravity Easily Overcome.

“Why, there is the force of gravity as plainly overcome and indeed annihilated as it is possible for a human being to imagine,” exclaimed the woman.

Dr. Leidy was asked this question: *“Doctor, is it true that this unknown force, or what is here manifested as such, has actually before your eyes overcome the force of gravity with which we are all familiar?”* and the answer, slowly, deliberately, was: *“I see no escape from that conclusion.”*²¹

14.4 Russell on Gravity

“Gravitation is the generative force of increasing potential and the regenerative force of decreasing potential.

“Gravitation is the power within the electric force of action to attract the electric force of action.

“Gravitation is the contractive power within electricity to divert the univer-

²¹[Pittsburg Dispatch April 07-1890], [Leidy and Wilcox Visit Keelys Lab], [Figure 17.18 - Keelys Levitation Demonstration], [Eye Witness Accounts]

sal constant of energy into centripetal vortices of closing spirals of increasing speed, thereby attracting similar states of motion into an accumulation of mass, the pressure of which increases toward its center.

“Gravitation is an expression of the power of electricity to accumulate by induction and, by so doing, to force magnetism to increase its resistance to that accumulation.

“Gravitation is the (electric) inductive force.”²²

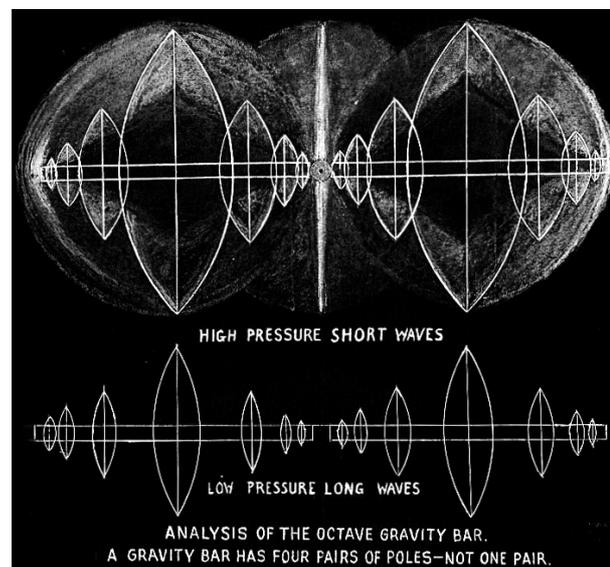


Figure 14.3: Gravity wave bar and poles

Image: <http://pondscienceinstitute.on-rev.com/imagesNatDyn/gravitybar.jpg>
(courtesy University of Science and Philosophy)

²²Russell, [The Universal One]

Chapter 15

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Appendix A

I - Laws of Being

from 'Keely and His Discoveries', Conclusion

Keely's Physical Philosophy

*"Mr. Keely begins with sounds whose vibrations can be known and registered. I presume that the laws of ratio, position, duality, and continuity, all the laws which go to mould the plastic air by plastic bodies into the sweetness of music, will also be found ruling and determining all in the high silence of interior vibrations, which hold together or shake asunder the combinations that we call atoms and ultimate elements."*¹

*"What Keely has discovered in physics, I am in some measure credited with discovering in metaphysics: this is nothing strange, according to this philosophy, which shows that many people may divine the same original truth at the same time by means of the etheric element which connects the Deity, the source of all truth, with all His creatures."*²

Abstract of Keely's Physical Philosophy in its main features up to the point of practical application;

by Professor Daniel G. Brinton, of the Pennsylvania University; subject to

¹[The Scientific Basis and Build of Music]; [Dougald Carmichael Ramsay]. Edited by the Rev. [John Andrew]. Marcus Ward and Co.

²Preface to [Vera Vita; or, The Philosophy of Sympathy]. [David Sinclair]. Author of [A New Creed]. Digby, Long and Co., London.

modifications and additions when Keely has made public his system.

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 rhythmical 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 vibration:-

- I. The Radiating: called also the "Dispersing," the "Propulsive," the "Positive," and the "Enharmonic." see entropy
- II. The Focalizing: called also the "Negative," the "Negative Attractive," the "Polarizing," and the "Harmonic." see syntropy
- III. The Dominant: called also the "Ethereic," 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 relations of the currents in every flow are expressible in thirds, and it is experimentally demonstrable that the relations of the three are in the order named: as $33 \frac{1}{3} : 66 \frac{2}{3} : 100$.

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.”³

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 centre. see syntropy

As no current of flow of force can be composed of one mode of vibration only, but must always be composed of three modes uniting in varying thirds, we have $1 \times 2 \times 3 = 6$ as the total possible forms of sympathetic coincidence, or, to speak in ordinary terms, there can be six; and six 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 them as follows:

Molecular
 Intermolecular
 Atomic
 Interatomic
 Etheric
 Interetheric

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

³see [syntropy]

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 : 43,046,721; 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 matter of which we are capable of cognition through the medium of our senses is in one of three forms of aggregation:

Molecular
Atomic
Etheric

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

The Enharmonic.
The Harmonic.
The Dominant.

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. ⁴

This is the foundation of Keely’s doctrine of “latent force,” and of the indef-

⁴see [Rhythmic Balanced Interchange]

inite 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 matter.

Insomuch 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 relations 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 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 centres of the equated forces of "neutralized attraction."

These molecules have been experimentally proved by Keely to be formed 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 one-third 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 solidification.

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, it not fully reaching two-thirds 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.⁵

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 centres of harmonized vibrations, temporarily held in suspension by simple laws identical with those of resonance, it follows that these centres can be broken up or divided by certain orders of vibration impinging upon and disturbing them.

It is a familiar fact that a cord 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 of flow.

In this manner we have “sympathetic negative attraction,” and “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

⁵see [Law of Transformation of Forces]

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 gain 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 platina, 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 vibrations, 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 inter-action 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 attractive” or “enharmonic” current of the triple flow, and the problem is then solved up to any limit of power.

Appendix B

II - Laws of Being

“The brain of an Aristotle was needed to discern and grasp Keely’s meaning to interpret and define it. Dr. Brinton never touches a subject without throwing light upon it, and his penetrating mind perceived the ideas to be defined in all their relations. His keen logical acumen separated and classified them in their order, in a true, sound, and scientific manner. In the words of Sir James Crichton Browne, who heard Professor Brinton read this abstract in London, “Professor Brinton’s synopsis is an able, lucid and logical paper.”
[Progressive Science]

Laws of Being

by Professor Daniel Brinton, University of Pennsylvania

Abstract of Keely’s Physical Philosophy in its main features up to the point of practical application; by Professor Daniel G. Brinton, of the Pennsylvania University; subject to modifications and additions when Keely has made public his system. ¹

“The fundamental conception of the Universe is force manifesting itself in rhythmical relations.

“This definition is exhaustive, including both thought and extension, mat-

¹from Keely and His Discoveries, Conclusion, Keelys Physical Philosophy

ter 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,

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“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 vibration:

I. The Radiating: called also the “Dispersing”, the “Propulsive”, the Positive, and the Enharmonic.

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“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 be composed of three modes uniting in varying thirds, we have $1 \times 2 \times 3 = 6$ as the total possible forms of Sympathetic Coincidence, or, to speak in ordinary terms, there can be six; and six 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 them as follows:

I.	Molecular
II.	Intermolecular
III.	Atomic
IV.	Interatomic
V.	Etheric
VI.	Interetheric

“In this list 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 ...

“The 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 matter 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 Dominant

“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 matter.

“Insomuch 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 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.

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“These molecules have been experimentally proved by Keely to be formed 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 one-third 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 (musical) third, sixth, and ninth of the scale.

“Of these, the sixth reduces 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 two-thirds 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 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 cord 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 negative attraction”, and “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 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 gain 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 platina, 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 vibrations, 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 attractive or enharmonic current of the triple flow, and the problem is then solved up to any limit of power.”

Appendix C

III - Ultimate Constitution of Matter

The Ultimate Constitution of Matter and the Action of the Force Regulating its Phenomena

by John W. Keely

First: Matter is capable of infinite subdivision.

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

Third: In the dissociation of matter, force is liberated.

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

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

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

Seventh: All structures, whether crystalline or homogeneous, have for their

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

Eight: These molecules have an envelope, rotating with inconceivable rapidity, formed of a high tenuous ether, whose place in the order of subdivision ranks third, the three divisions being, - first, molecular; second, atomic; third, atomolic. (Atomolic is the same as Etheric)

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

Tenth: This molecular envelope, rotating with such great velocity, holds in its embrace the next subdivision of matter, the atomic. There cannot ever be more or less than three atoms in any molecule. These are placed so as to form a triangle in the interior; they rest in a condition of substance, or matter, we will term intermolecular. In this intermolecular substance we find an enormous energy or force in bondage, held thus by the rotating envelope enclosing it. Were we to rotate a spun brass shell, say nine inches in diameter, at a very much less rate of speed than that at which the molecular envelope rotates, - say nine hundred revolutions per second, - its equator would first bulge out, then form into an oval disk. A solid block of wood subject to such revolution would swiftly fly to pieces. The rotating envelope of a molecule, unlike these, the greater the velocity of rotation, the greater is its compression toward the center of the molecule. The rotation of this envelope is of such a nature as to produce an internal pressure upon every portion from every point of the molecule as a sphere. Were we to consider a rotating envelope as ordinarily understood, it would be one in which the envelope rotated around an equator having poles of no rotation; i.e., the poles would not possess the compressing force of the equator; the result would therefore be a compressed equator, and the intermolecular substance would pass out without resistance at the poles.

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

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

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

Fourteenth: The atomoles are made up of atomolini (singulana tomolinus); the subdivision of matter from this point is beyond man's power, as at this point it escapes all control of apparatus, passing through glass and hardened

steel as a luminous flame without heat, which is hardly seen before it vanishes, - a perpetual flame coldly luminous.

Fifteenth: (Not in book, may have been a mis-numbering. editor)

Sixteenth: This again, from previous analysis, is made up according to the triple order, and may again be subject to subdivision, even into infinity.”
[Dashed Against the Rock]



Dale Pond

Author of many books.
Creator of svpwiki.com and
Maker of Dynaspheres.

Keely's Laws of Being

This book describes the unseen (scalar) components of vibration, oscillation and toroids as also their relationships and dynamical functions.

This book is a follow-up (volume II) of The Physics of Love published in 1994.

The forces described in this book are the 3, 6 and 9 unseen (scalar) forces Keely used to achieve some of the remarkable feats of science and engineering accredited to him yet not understood by the rest of us.

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