

CLAIM OF PRIORITY TO EINSTEIN'S NEW THEORY

BY

Walter Russell

Professor Albert Einstein has announced that his newest work, recently presented to the Prussian Academy of Sciences, is a comprehensive theory which ties electricity and gravitation together as one force and effect. He concludes his article as follows: "The mathematical problem whose solution, in my view, leads to the correct field laws is to be formulated thus: Which are the simplest and most natural conditions to which a continuum of this kind can be subjected. The answer to this question which I have attempted to give in a new paper yields unitary field laws for gravitation and electro-magnétism."

I respectfully wish to call to the attention of the world the fact that I printed and copyrighted this same conclusion in 1927 as the result of intensive observation of the forces employed by nature.

Not only did I set forth the theory of the unity of gravitation and electricity as the attractive force, but I also gave the other half of this vitally important discovery, namely, the unity of its opposite effect, radiation and magnetism as the repellant force, without which Einstein's conclusion is not a complete, workable whole.

Together these two complete a cycle of continuity in all effects of motion which must revolutionize modern scientific thinking and practice.

Electricity and gravitation, or electro-gravitation, is but one of the two opposing forces. Magnetism and radiation, or magneto-radiation, is the equal and opposite reactionary force. These two opposite forces create the two opposite oscillations of all electro-magnetic action and reaction which build up wave sequences. These sequences constitute the

the whole cycle of repetitive effects of motion outside of and beyond which there is nothing.

Electricity is the attractive, generative oscillation which accumulates energy into high pressure, gravitative centers or points, and the other is the repellant, degenerative oscillation which dissipates this stored energy through radiation into low pressure planes or areas.

These observations led to the conclusion that all effects of motion are expressed in waves. When I made this statement, it seemed too radical for consideration, but recently Professor Sheldon of New York University has expressed the same theory without shock to present-day thinking. Other equally radical theories expressed in my book have become a part of today's conservative thinking.

Experiment, observation and deduction showed me that the entire universe of motion is divided into high and low pressure equilibrium positions; all force directed toward the former is dominated by electricity and toward the latter by magnetism.

This is as applicable to the weather map as to the motions of the planets. It also applies to the dynamo, pump or the gasoline motor. All dynamic force which man controls as well as that which Nature uses is either the electric contraction force seeking a high pressure equilibrium, "dead center" position, or the magnetic expansion force seeking a low pressure one. Back and forth these two opposing pressure-expansion forces surge to do the work of man by turning his wheels, and of the universe by creating and destroying matter, each one acting as though it were a separate force, while in reality it is an opposite expression of the same force. Each one gradually assumes the attributes of the other on its journey to equilibrium where it reverses itself and returns as the opposite force.

The discovery of the inter-relationship of these two apparently opposite forces led to such a series of new discoveries and conclusions that I became convinced of the unity or one-ness of all Nature's forces and effects. That which physicists describe as the search for the "One Thing" seemed plausible, and my book, "The Universal One," was written to demonstrate my belief in a single principle or force which governs all matter.

My conclusions pointed unmistakably to the fact that all effects of motion are either electro-gravitational or magneto-radiational; that all are expressed in waves; that all matter is one substance, its apparent variation in the elements being due solely to striation and pressure positions in octaves of waves; that all effects are tonal, periodic, continuous and repetitive in endless cycles; and that all matter is light.

If there is any one universal effect of motion, it is light. Its universal speed is evidence of this fact. I believe that this universe of motion is a universe of light.

As all effects of light are expressed in waves, so, therefore, must all effects of motion be expressed in waves.

Waves are admittedly continuous. A break or gap in a wave series is inconceivable.

If this is so, light must be a continuum, a belief upheld by the bolometer and the photographic negative, and there can be no darkness in the universe.

The spectrum of light is unquestionably continuous.

In light, therefore, as expressed in its spectrum, I found the key to the solution of the problem of the universal one-ness of all effects of motion.

If it is true that light is a cycle there is no ending and no beginning. All other effects of motion must be continuous.

Again science said "no" to this radical claim especially in regard to the atom which has been considered discontinuous. Very recently, however, one strong voice has been raised in its favor, and I venture to prophecy that two years will not pass before my theory of continuous cycles will be found to be a universal attribute of all effects of motion.

Consider the temperature record of an effect of motion, for example. That is plainly a cycle. If all effects of motion are recorded in a temperature cycle, it must follow that its cause is a cycle. The temperature cycle is as follows, cold generates, generation contracts, contraction heats, heat radiates, radiation expands, expansion cools, and cold regenerates to begin the cycle again.

Vapor condensing into the rain drop, falling to the ground, and rising again as vapor, to again condense, is the same cycle as that followed by all disintegrating matter which must necessarily find a low pressure cold area somewhere appropriate to its potential in space, to reintegrate and return.

Condensation is an electric effect which brings the condensed body into the gravitational field. It pulls inward from within in mutually attractive lines of force. Evaporation is a magnetic effect which brings the radiated body into the magnetic field. It pushes outward from within in mutually repellant lines of force.

As matter gravitationally charges, cools or condenses and radiationally discharges, ionizes, or evaporates, so does it gravitationally revolve with increasing speed and rotate with decreasing speed as it approaches its

high pressure vortice or gravitational center. It then reverses this effect to tear itself apart centrifugally, as it spirally winds its way into the low pressures of space.

And so on down the entire category of astronomical, chemical and electro-magnetic effects, I find none which are not electro-gravitational and magneto-radiational, in sequences, and in cycles of sequences.

The cyclic principle of continuity robs Nature of her apparent complexity and reduces her mechanics to a simple, orderly and easily comprehensible system of tonal striations, always expressed in three pairs of opposite tones, and one double tone to each octave, and always expressed in waves.

If light is continuous, the atom must be continuous, which means that each element evolves and devolves into the next highest and lowest in a continuous and opposed cycle. This means that each electron of each atom of each element contains all of the elements within it, just as this planet, which is but a large electron, contains them all.

This new discovery taught me to read the elements cumulatively instead of separately, and gave me my new chart of the elements in a cycle of the overlapping octaves. Four of these ten octaves are in the "unseen" universe, but by reading the spectrum lines cumulatively, and allowing for shift due to cumulative pressures, the evidence of their existence is quite clear.

Specific References

Obviously I cannot present the arguments for my theories in this article, so I shall simply quote some of the passages related to the conclusions arrived at by Professor Einstein.

The key to all opposite effects of motion is contained in the statement that "the electro-positive force of the attraction of gravitation pulls inward from within; and the electro-negative force of the repulsion of radiation pushes outward from within." (Page 221)

These are many specific statements and definitions such as the following: (Page 55)

Page 59 - "Gravitation is the desire of electricity to integrate into the appearance of form. Radiation is the desire of magnetism to disintegrate into the disappearance of form."

"This increasing intensity of opposition between the gravitative desire of electricity to assemble the universe into the appearance of form by its generative force of attraction, and the radiative desire of magnetism to disassemble into the disappearance of form is the cosmic principle of creation."

Page 17 - All mass is accumulated centripetally by the genero-active, gravitative, attractive power of electricity, and is dissipated centrifugally by the radio-active repelling power of magnetism.

Page 141 - "Gravitation is the generative force of increasing potential and the regenerative force of decreasing potential."

"It is the power within the electric force of action to attract the electric force of action."

"It is the contractive power within electricity to divert the universal 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."

Page 84 - "Lightning seeking its own potential, and an apple falling to the ground, are effects of exactly the same cause."

"Gravitation is the cause of each."

The following refers to the generally accepted belief that electricity and gravitation were considered to be two separate disconnected effects of motion. My statements were considered too radical.

Page 130 - "The supposition that atomic motion is an electrical effect, and that the atoms of the elements are thereby exempted from obeying the laws of gravitation, misleads the chemist."

Page 131 - "Modern science recognizes the varying power of substance to attract and to repel in that effect termed electromotive force, but its basic cause is presumed to be electrical, Electricity and gravitation are not yet recognized as identical expressions of the same force."

Page 147 - "Science considers the attraction of gravitation of the solar system as an entirely different effect from the effect of motion within an atomic system."

"Atomic motion is presumed to be non-subject to the laws of gravitation."

"Science names one 'gravitation,' and the other an 'electrical effect'".

"Both 'effects' are the same."

"Also are both 'effects' born of the same conditions."

"If the movements of planets and satellites are 'effects of gravitation' and the same 'effects' in smaller mass, are 'electrical effects,' why do smaller masses exactly follow the laws of the larger masses?"

"The light units of an atom seem independent of the earth's gravitative center, but actually they are not. All are revolving true to the planes of their respective potentials."

"The moons of Jupiter do exactly the same thing in respect to the solar gravitative center of this system, yet they are not considered an 'electrical effect.'"

"They fall toward the sun and away from it with the same apparent disregard that light units, of a system, evidence in respect to other masses outside their own systems."

"Even their accelerations and decelerations are effected by causes other than by ether they are moving toward the sun or away from it."

Page 149 - "All effects of motion are gravitational and radiational effects. Also there are electric and magnetic effects just as they are likewise chemical effects."

"All motion is oscillatory, swinging in sequence between two apparent opposing forces, gravitation and repulsion, which are respectively electric and magnetic."

Even more specific reference to the unity of gravitation and electricity can be found in the following three paragraphs:

Page 147 - "All effects of gravitation are electric effects, and all effects of radiation are magnetic effects."

"All effects of motion are electro-magnetic effects."

"All mass has a series of gravitative centers toward which it evidences its allegiance in the order of its (electric) potential relations."

Here again are paragraphs which specifically set forth the unity of electricity and gravitation with the generative force of creation:

Page 68 - "Electricity is the generative force."

"To generate means to decelerate (resist) an established motion in order that it may be accumulated. Magnetism is the degenerative force."

Page 29 - "Generation or regeneration is an effect of gravitation. An impact of radiative energy against any lower octave of integration will set up the necessary resistance to the radiative energy to regenerate it into its original form."

Page 15 - "The action impulse and the reaction impulse are alternating between the apparent opposites known as generation and radiation."

"Generation and radiation are opposites. Generation is the attractive, gravitative, positive, electric force, and radiation is the repulsive, emanative, negative, magnetic force."

Page 176 - "Induction is an effect of generation or regeneration."

"If this true, then induction must be related to the attraction of gravitation and conduction to the repulsion of radiation."

By giving due consideration to the swing of electro-magnetic oscillation between these two opposite expressions of the one force, the very principle of creation is made more clear:

Page 10 - "Creation is merely a swing of the cosmic pendulum from inertia, through energy, and back again to inertia, forever and forever. It is but a series of opposing pulsations of action and reaction, integration and disintegration, gravitation and radiation, appearance and disappearance."

Page 131 - "The force of attraction, which is electric, and the force of repulsion, which is magnetic, are both opposite pressure dimensions, and they must change their relations as other dimensions change."

"All mass is either charging, in which case it is flowing in an electric stream of centripetal preponderance, or it is discharging, in which case it is flowing in a magnetic stream of centrifugal preponderance."

"An electric stream always flows spirally toward the gravitative center of the mass, or system, or wave of systems."

"Attraction and repulsion are merely apparent effects of electric action and magnetic reaction."

"One is an effect of gravitation, the other of radiation."

Page 69 - "Electricity is the basis of the atom."

Page 148 - "The attraction of gravitation, in favoring the generation of energy, is enabling electricity to accumulate as mass."

"All mass consists of energy accumulated by the attraction of gravitation into the appearance of form."

"All form is held together, more or less closely, by the relative force of gravitation which accompanies mass of various dimensions and relations."

Page 212 - "The contracting electric centripetal stream is the condition of motion necessary to produce that effect of motion which we call the attraction of gravitation."

"The expanding, magnetic, centrifugal stream is the condition of motion necessary to produce that effect of motion which we call the repulsion of radiation."

"The electric stream and the magnetic stream are one. They are but travelling in different directions."

Page 138 - "The electric stream displaces substance by accumulating the universal constant, under increasingly higher pressure equilibriums, into relatively solid masses, and the magnetic stream diffuses that solidity into tenuity by releasing those high pressures."

"Affinity, in the chemical sense, and attraction, in the electrical sense, are analogous."

"Both are effects of gravitation."

Claim of Priority
to Einstein Theory

By Walter Russell

Professor Albert Einstein has announced that his newest work, recently presented to the Prussian Academy of Sciences, is a comprehensive theory which ties electricity and gravitation together as one force and effect. He concludes his article as follows: "The mathematical problem whose solution, in my view, leads to the correct field laws is to be formulated thus; Which are the simplest and most natural conditions to which a continuum of this kind can be subjected. The answer to this question which I have attempted to give in a new paper yields unitary field laws for gravitation and electro-magnetism."

I respectfully wish to call to the attention of the world the fact that I printed and copyrighted this same conclusion in 1927 as the result of intensive observation of the forces employed by nature.

Not only did I set forth Einstein's theory in great detail, but I also set forth the other half of this vitally important discovery, without which Einstein's conclusion is not a complete, workable whole.

From these observations I deduced a simple, mathematical formula and law which not only applies to electricity and gravitation, but also to magnetism and radiation.

It has been tested in reference to the laws of falling bodies, the motions of the planets, the relative pressures and rotation ratios of rigid bodies, the relative melting points and pressures of the elements and many other effects of motion. I believe that it will be found to apply to every effect of motion in every field of science, and if so, it will sustain my theory that every effect of motion is a grav-

itational or a radiational effect expressed in waves of opposing electro-
magnetic pressures which increase in their pressure opposition in direct
and inverse of a universal ratio from the axis to the amplitude of each
wave.

I believe that dimensions heretofore unobtainable, such as measur-
ing the length of a day on a planet which shows no markings, or the densities
of planets, will respond to this formula and law.

The inspiration for this formula and law came from the study of the
spectrum.

*Drawings of the Spectrum -
for one column reproduction,*

If there is any one universal effect of motion, it is light.

I believe that this universe of matter is a universe of light.

As all effects of light are expressed in waves, so, therefore,
must all effects of motion be expressed in waves.

Waves are admittedly continuous. A break or gap in a wave series
is inconceivable.

If this is so, light must ~~be~~ be a continuum, and there can be no
darkness in the universe.

a belief upheld by the bolometer and the negative

~~If light is a continuum, and the bolometer and negative uphold
that belief, then there is no gap or break in the continuity of light.~~

the photographic negative

rep

THE FORMULA OF LOCKED POTENTIALS

Drawing for the Formula.

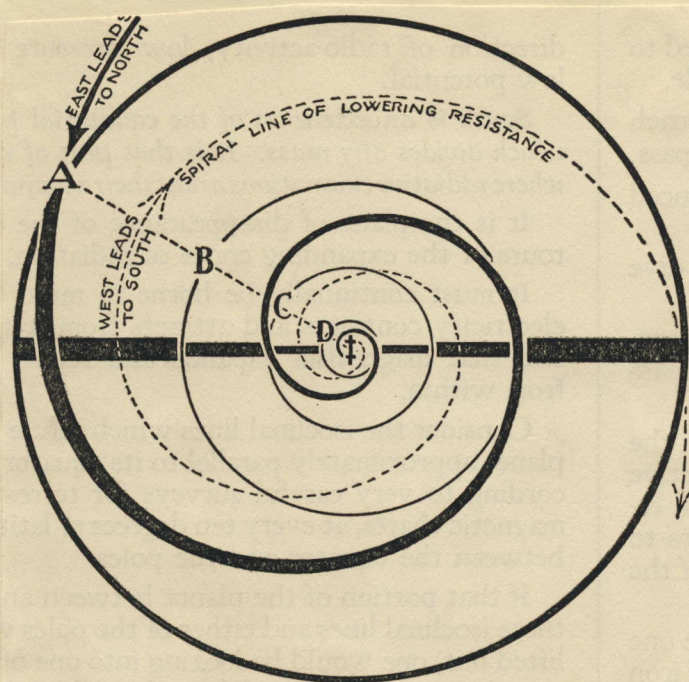
THE LAWS

Electric pressures contract in the direction of gravitation inversely as the square of the distance, ~~area~~ or time unit, and as the cube of the volume.

Magnetic pressures expand in the direction of radiation directly as the square of the distance, ~~area~~ or time unit, and as the cube of the volume.

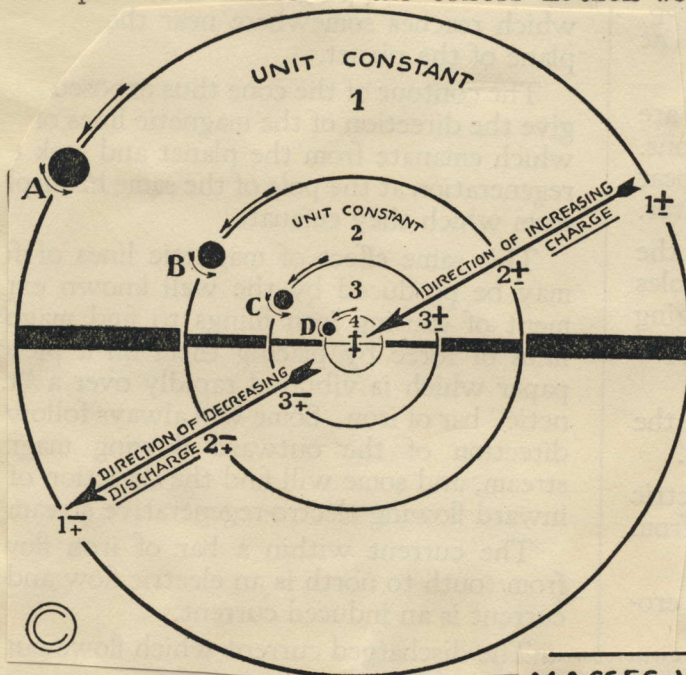
APPLICATION OF THE LAWS

The former of these laws applies to falling bodies in accordance with the laws that are now accepted. A stone falling through the ^{electro-gravitational} pressure ~~gradient~~ gradient which surrounds the earth will drop through a pressure layer of 16 feet the first second. The gravitational pull of the second 16 foot layer of pressure being the square of the first in intensity, the stone will fall 16 feet in this second pressure layer in one ^{half} fourth the time, or inversely as the square of the distance or time unit. On the other hand, the law for magnetic pressures would apply to the way in which gas rises from the planet.



POTENTIAL RATIOS FOR RIGID MASS

In rigid bodies, a point at A on this planet would rotate about 1000 miles per hour; at B, 500 miles per hour; at C, 250 miles per hour; at D, 125 miles per hour while at the center motion would cease.



POTENTIAL RATIOS FOR FREELY MOVING

MASSSES WITHIN ANY SYSTEM

In freely moving equal masses at A, a planet ~~xxx~~ that would revolve 3 miles per second at B would revolve 6 miles, at C, 12 miles and at D, 24 miles per second.

See 5-a.

On the other hand, at A a mass would rotate once in 4 hours, at B once in 8 hours, at C once in 16 hours, while at D its day would be 32 hours long.

The same rule applies to temperature, volume and density.