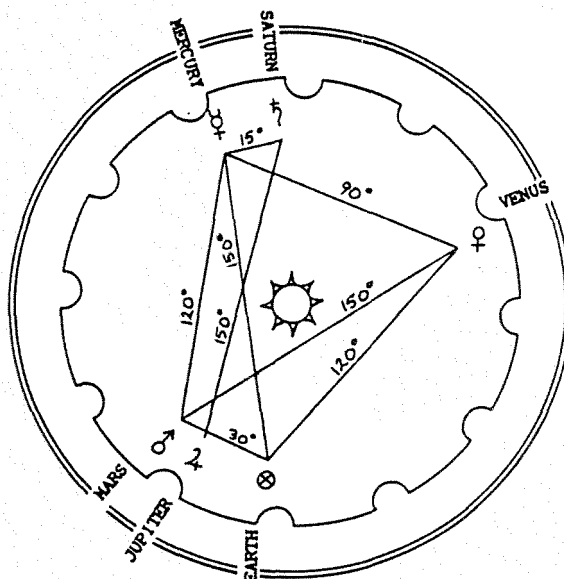


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PLANETARY ALIGNMENTS FOR LARGEST SOLAR FLARE
TO DATE IN CYCLE 22, X4.7, December 16, 1988

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THE JOURNAL OF BORDERLAND RESEARCH

is a Free-Thought Scientific Forum examining the Living Energy of Our Creator and probing the parameters of Body, Mind and Spirit. Current research is oriented toward verification of Etheric Energies and their relationship to Beneficial Technologies. Donations of pertinent material are accepted for publication in the Journal. By presenting your work you will be helping other Researchers into the Borderlands of Science and we all benefit.

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THE CRYSTAL VORTEX

by Patrick and Gael Flanagan

Every living thing originated in an ancient primordial sea which we call water. Water is the basis of all life. When we are born our bodies contain as much as 90% water. As our bones form and our organs take on more solid structure our total water content drops to about 70% in adulthood. As we age our cells become dehydrated. Our brains remain however at the 90% level of birth.

Living water is highly structured when compared to water found in lakes, ponds and streams. Ordinary water has a surface tension of 73 dynes per centimeter while body fluids average 45 dynes. The water in the brain is the most highly organized. Cerebral fluid in conjunction with the non-polar molecules of our brain matter forms an ice matrix which is stable in structure at 37 degrees Celsius (98.6F). The ice structure of the brain melts at approximately 108F. When this happens the brain can no longer function and the body dies.

The liquid structure of the brain extends from the skull into and through every nerve fiber throughout the entire body. The cerebral spinal liquid crystal fluid extends through the sheaths of our nerves from the top of our head to the tips of our toes. This gigantic liquid crystal is a giant receiving set for cosmic energy impulses. If our nerves were stretched out end to end they would stretch around the entire earth. These fibers are also a gigantic transmission station for millimeter waves.

Dr. Robert O. Becker (THE BODY ELECTRIC) has discovered that the liquid crystal struc-

tures of the nerve fibers and the sheaths are semi-conductors just like the integrated circuits found in computers. These structures are the basis of an analog energy system which is used by the body to sense environmental and physiological conditions. This newly discovered energy system is the basis for the transmission of CHI or inner energy. When a portion of the body is damaged, the brain sends electrical waves or direct current into the area. These waves serve to direct minerals, cells, toxins and healing ions which facilitate the healing process.

The cellular fluid, while not as structured as cerebral spinal fluid is also a complex liquid crystal whose function is to transmit information to and from cells and to the nervous system.

Dr. F.A. Popp of the University of Marburg in Germany has discovered that standard cellular water acts as a fiber optic transmission line for laser type radiation which is emitted by the living cell. This fluid is the communication link between the cells. Dr. Popp found that cellular water is structured by minute quantities of mineral colloids. These fluids are also designed to transport nutrients to the cells and toxins from the cells for elimination.

The water in the circulatory of blood system is also highly structured. The liquid blood crystals are the primary pathway for reception of incoming energy from food. It is also the ordinary pathway for elimination of toxins and balancing the mineral electrolyte system (through the kidneys).

For the last 25 years we have searched for the common denominator of living energy field phenomena which has been

described by yogis, saints, philosophers and scientists for centuries. The elusive life-energy field has been described in the sacred Vedas of India and in modern times by such notable scientists as Dr. Tiller of Stanford University and Dr. Alexander Dubrov of the Soviet Union. There are nearly 1,000 names in use for life energy, these include: Gaya Lama (Tibet), Chi (Chinese), Orgone (Wilhelm Reich), Odic Force (Baron Karl von Reichenbach), Vril (Atlantis), Bio-Gravitational Field (Dubrov), Glame (Edgerly) and Innergy (Flanagan).

While early fathers of science tried to describe the living system in terms of simple mechanics of thermodynamics, these efforts failed to explain why living organisms seem to contradict Newton's second law of thermodynamics which states that the entire universe is irreversibly moving toward increasing decay and disorder. The amount of useless energy in a given system is called entropy. Entropy can be defined as the quantity of unusable energy, and is a measure of the amount of chaos or disorder in an energy system.

In mechanical devices the understanding of the concept of entropy is easily explained. Let us take for example the entropy found in a new automobile: in a new car all the various parts are assembled in close tolerances. There is very little disorder in its mechanical structure.

When the car is new it has a maximum degree of structure. as the car is driven its various parts begin to wear down as vibration soon loosens nuts and bolts---randomness or entropy increases. With time it mechanically breaks down due to vibrations. The energy fluctuations

entering the system from the outside manifest at first in the form of squeaks and rattles. As time progresses these turn into mechanical chaos which leads to breakdown. This process of movement through time from structure to chaos occurs in any closed energy system. Entropy is a measure of randomly organized energy in a given system. Entropic energy cannot be used for work. Random energy fluctuations however can be converted into useable energy under certain conditions. There is a difference between entropy and chaotic energy flux.

Dr. Ilya Prigogine of Belgium won the Nobel Prize for proving that order or structure can come from chaos under certain conditions. This is in apparent opposition to the Second Law of Thermodynamics. The second law applies only to closed energy systems--that is systems which do not receive or expel energy from the outside. Prigogine discovered laws which relate to open energy systems.

In open energy systems the organism or machine exchanges energy with the outside environment. It takes external energy in and expels chaos or less as a waste by product. During this process the energy system may reorganize itself into a more sophisticated structure of higher order. For a system to reach higher order, its old structure must become unstable. During this period of instability an external energy fluctuation may trigger massive chaos which may result in an escape to higher order--on the other hand the system may collapse. This process of order-chaos-higher order is the process that living organisms experience as growth. This process is not a smooth rate of change but is manifested by

quantum jumps from one structural order to another.

This process of growth is at the very foundation of all life process. It is manifested by all living organisms, cities, countries, etc. When we understand this process we may understand the process of spiritual growth as well.

Mechanisms that can create structure out of chaos are called by Prigogine--dissipative structures. All living organisms are dissipative structures, as are certain non-living organisms.

DISSIPATIVE STRUCTURES

Crystals are highly organized resonant systems. They are like highly sophisticated tuning forks. Crystal structures are transducers or transformers of energy. In 1965, Alec T. Stewart wrote a fascinating book about crystals entitled: PERPETUAL MOTION. This book is about the perpetual motion of atoms in crystals. Although crystals like quartz are very hard structures, if we could see them at a molecular level we would see the various atoms of the crystal organized into a precise lattice of structure.

While it is customary to think of atoms in a crystal as being held in a fixed position and not allowed to migrate, they migrate fiercely about these fixed points. The atoms vibrate back and forth forever. They move at the most about 1/20th of the distance to their nearest neighbors in the crystal and then move back again. This takes about one billionth of a second. The motion of any one atom influences the motion of all the other atoms in the crystal. As a result of this mutual influence the perpetual motion of atoms in crystals is highly organized.

When a mass (the atom) vibrates back and forth the mass generates an energy field which is known as "matter waves". These waves have a wavelength which can be calculated by a formula developed by de Broglie. All crystals generate coherent matter waves even at zero degree absolute. Hard materials like quartz generate more energy than soft crystals like lead.

Atoms in crystal can be visualized as small weights like ball bearings. They are connected to each other by means of steel strings. Although these balls are held in place by the springs (molecular forces) they vibrate violently in their respective positions. Since these atoms are all connected together by molecular springs (force) they all vibrate in an orderly manner.

Crystals are the only form of matter that will vibrate at absolute zero. This is the temperature at which all ordinary molecular motion ceases.

If an external vibration or energy impinges on a crystal the crystal begins to ring like a bell. All atoms vibrate coherently. The frequency at which it rings is far beyond the range of sound or even electro-magnetic waves used by man.

The molecular vibrators in a crystal respond to an external vibration in such a way that random vibration impinging on the crystal generate orderly vibrations in its structure. these orderly vibrations are then transformed into other energies. Those input energies that are not transformed into orderly energies are dissipated from the crystal in the form of random heat waves.

The orderly vibrations in the crystal may be emitted in the form of electricity, electro-magnetic waves, soliton waves

(mechanical scalar waves) and gravitational waves.

Crystals convert random energy fluctuations into structured energy. This response to external energy input is non-linear and is a primary characteristic of dissipative structures.

We first discovered the ability of quartz to emit structured energy when we found that crystals could alter and increase the structure of water. This discovery was made in 1974 when we purchased a DuNuoy's Ring Surface tensiometer. This device measures surface tension of fluids by means of a 99.999% pure platinum ring. In the device a platinum ring is brought into contact with a water sample. When this happens the water 'wets' the ring and holds on to the surface of the platinum. When the ring is gently lifted, a stress is placed on the ring-water interface. As the lifting force is increased a point will be found where this interface is ruptured and the ring breaks free from the surface. The force required to rupture this bond is measured in a unit known as the dyne per centimeter. A dyne is a unit of energy.

All liquids and solids have a surface tension. The interface between all solids and liquids also has a surface tension. Surface tension can be used as an indication of the underlying structure of water molecules. Water is a liquid crystal whose structure varies according to external and internal environmental conditions.

Water can be viewed as a complex substance composed of liquid crystals which are floating in a sea of randomly oriented molecules which have no structure.

These liquid crystals are called "icebergs" because they have the same structure as solid ice. These icebergs are highly structured groups of water molecules which resemble the structure of solid ice. All water samples contain these iceberg structures. We can establish a ratio of icebergs to random molecules. The more icebergs we have in a given solution of water, the greater the overall structure, and the lower the entropy of the system. Even boiled water contains icebergs of structured water.

These icebergs have been detected at all temperatures by means of neutron diffraction. When neutrons are projected through a sample of water the icebergs diffract or deflect the neutrons differently than the ordinary unstructured water. By using this test we can measure the degree of structuring in any given sample of water.

At room temperature, if we increase the number of icebergs in ordinary water, the physical characteristics of the water will change. Surface tension will be reduced and viscosity will be increased. Precise measurements of surface tension are possible with the DuNuoy's Rings Surface Tensiometer.

In 1974, we found that ordinary crystals like quartz, rubies and emeralds, increase the structure of water by contact. When a one inch quartz crystal is placed in a petri dish containing 30 milliliters of pure water, surface tension of the water was reduced from 73 dynes per centimeter to approximately 50 dynes. This treatment took about five minutes.

This structuring is an indication of a reduction of the entropy in the liquid system. Wa-

ter based liquid crystal structures are dynamic in nature, that is the bond lattices of the bipolar water molecules are constantly being formed and destroyed at approximately 8×10 to 13 th times per second. The term bipolar means that the water molecule has a positive charge on one side which is separated from a negative charge on the other side of the molecule. This charge separation is what gives water many of its special physical properties. Properties which have been called anomalous as water behaves like no other fluid. It is this characteristic which enables water to act as the primordial fluid of life.

The making and breaking of crystalline lattices and the rotation of bipolar molecules results in the emission of energy from water molecules.

Dr. Paul E. Dobler of Heilbronn, Germany discovered that turbulent water emits powerful bursts of energy in the millimeter electronic wave band. Turbulent motion of water generates millions of vortexes which act as energy transmitters.

This energy waveband was once called the X-band by physicists as it included the range from the infrared light band to the edge of the micro-wave radio band. It was called the X-band because no one could differentiate specific frequencies in this range. These energies have very interesting properties.

Dr. Dobler discovered that energies in this waveband could cause certain metallic crystals to emit photons of light which will expose certain types of chromatic film. Dr. Dobler made interferometers, resonators, and other devices which could accurately measure the wavelengths emitted by water.

He was also able to measure millimeter wavelengths which are emitted by crystal and magnets. The exact techniques used by Dobler are described in his two books: "Biophysikalische Untersuchungen uber Strahlung der Materie, Wunchelrute, Elektrische Wellen (Biophysical Experiments on the Radiation of Matter, Divining Rods, Electric Waves, 1939) and Phisikalischer und Photographischer Nachweis de Erdstrahlen Losung des Problems der Wunschelrute (Physical and Photographic Proof of Radiation from the Earth, 1934). Unfortunately this great scientists work was lost for many years due to the destruction of scientific libraries in Germany during WW II.

These waves were also photographed in 1898 by Dr. Gustav LeBon in France, his experiments are described in his masterpiece, 'The Evolution of Matter', which was published in 1909. Dr. LeBon used energized zinc sulfide plates to make these photographs. When zinc sulfide is exposed to bright light it glows in the dark. When it is exposed to infrared and millimeter waves, these waves extinguish the photon emission of the zinc plate. By focusing these waves by means of special devices, photographs can be taken through walls. Both LeBon and Dobler were able to demonstrate the power of these waves to penetrate all physical matter such as wood, earth and stones. These waves are, however, powerfully absorbed by water.

Alexander Dobrov of the Soviet Union is considered one of the foremost world authorities on gravitation and geo-magnetic effects on the living system. Dr. Dubrov in an article for UNESCO PRESS established that the constant formation and destruc-

tion of liquid lattice bonds results in the transmission of biogravitational waves that could act on the structure of water at great distances (galactic).

It may be that Dubrov's waves are related to the millimeter waves of Carl Dobler and Gustav LeBon.

As we mentioned earlier, crystals can affect the structure of water. The energy emitted by crystal structures has been accurately measured by Dr. Dobler as being in the millimeter waveband. Dobler has also shown that all matter emits energy in this band. Every substance emits its own particular wavelength. Dobler also demonstrated that these waves can affect the transmission of nerve impulses and muscles. His research has indicated that this phenomenon may be associated with the 'dowsing response' which is so well documented by Christopher Bird in his book 'The Dowsing Hand'.

The so called X-band covers nearly one-third of the entire electromagnetic spectrum and is virtually unresearched by today's physicists. The only scientist to come close to exploring these phenomena presently is Dr. Phillip Callahan who wrote 'Tuning In To Nature'. Dr. Callahan discovered that far infrared waves are emitted by dipolar molecules. He has established that insects use these waves as part of their communication and food search systems. Insect antennae are log periodic arrays that are tuned to these waves.

In one of our tests with Dr. Callahan's Fourier Transform Infrared Spectro-photometer, we discovered that certain shapes like pyramids act as vortex generators when wind is blown across

their surfaces. These vortexes cause a specific type of rotation of bipolar molecules that results in the transmission of powerful signals in the millimeter and infrared bands.

When we compare the X-band (one third of the entire spectrum) to the optical waveband which occupies only .01% of the electromagnetic spectrum, it becomes obvious that this waveband contains many secrets which are yet to be discovered. After all the millions spent on optical research, scientists are still making new discoveries in the optical band.

COSMIC ENERGY

We may correctly ask where the energy source for crystals comes from. Dobler found that the kinetic energy of turbulent water acts as an energy source in that case. For example, when water in an underground stream contacts rocks and other structures the vortexes formed by flowing water cause the bipolar water molecules to rotate. These spinning electric charges emit energy according to known physical calculations.

The molecules of crystals vibrate fiercely around their lattice positions in the crystal matrix. If a chaotic energy field enters the crystal structure from the outside, lattice of the crystal acts as a non-linear wave-guide which structures these waves into a coherent form. The end result is the emission of millimeter waves discovered by Dobler.

The cosmos is a sea of energy which bathes the entire universe. These waves come from black holes, quasars and sun systems which create a dance of pure energy. These fields are modified as they pass through

matter. The more structured the matter the more these fields are modified.

In our book, 'Elixir of the Ageless' we describe the construction of gravity wave detectors which are based on this phenomenon.

COLLOIDS ARE THE KEY

The fluids in the living system are structured by means of minerals which are organized into colloidal particles which are tiny insoluble mineral particles which have a high electric charge or zeta potential. These mineral are stabilized by an electrolyte system of soluble salts and minerals. If the colloidal computer system of the body is destroyed we die instantly.

In 1920's, Dr. Henri Coanda who is now known as the Father of Fluid Dynamics, investigated five remote areas on Earth where people live to be over 100 while maintaining perfect health. These areas include Hunzaland in the Himalayas and Vilcambamba in Ecuador. He found that the secret of their long life-span was based on the special colloidal water which is found in these areas. He changed the phrase: "You are what you eat" into "You are what you drink".

While Dr. Coanda was able to discover the basis of long life as a secret contained in the water these people drink, he was unable to duplicate these waters in his own laboratory. In 1964, Dr. Coanda and Patrick Flanagan worked together on a research project at Huyck Laboratories in Stanford, Connecticut. Coanda was in his 80's, Patrick was 17. It was at this time that Dr. Coanda passed his research on water over to Patrick.

Patrick Flanagan spent the next 20 years trying to duplicate Hunza water. Unable to duplicate Hunza water, he put his research aside for a while.

In 1983, Patrick was joined in his quest by Gael Crystal Flanagan. They traveled to Egypt together and were married in the King's Chamber of the Great Pyramid. Their marriage coincided with an astrological alignment which happens only once every 4,800 years. This is when the Pleiadian star system is directly over the top of the pyramid while being in conjunct the Full Moon. After their marriage, they established a remote mountain laboratory where they resumed the research to discover the secret of Hunza water.

In 1984, they deciphered the code to Hunza water and for the first time in history were able to develop the special colloidal minerals which alter the structure of ordinary water. This special structure is also into the same type of structure as that found in the biological fluids of the living system.

After their special minerals are added to ordinary water the surface tension is altered from 73 dynes to 38 dynes per centimeter. The resulting "liquid crystal water" has the special properties of "living water".

The bipolar electrical charges on the water molecule rotate into alignment with the electrical charges on the colloids. The colloids act as seed crystals upon which liquid crystal icebergs grow.

The same thing happens in the living system. Biological fluids are structured by means of mineral colloids which are manufactured in the alchemical laboratory of nature.

The minerals in ordinary water are in the form of ionized mineral salts or electrolytes. These electrolyte minerals are also found in the living system, but are present only in a specific balance which contributes to colloidal stability. When we drink ordinary water the body has to work to balance mineral and charges.

The water found in Hunzaland, the Karakoram, Vilcambamba of Ecuador, in Russia and etc., contains colloids and electrolytes which are similar to those found in biological fluids.

When these colloids are consumed in the water we drink they act to keep the liquid crystals of our biological fluids in a state of balance.

We took two dark field microscope photographs of human blood. In the first photo we viewed the blood of a subject after a heavy meal. The salt and fat content of the meal have combined to severely reduce the electrical charges on blood colloids. The result is that the blood cells are all clumped together and are immobilized. These sluggish red blood cells cannot carry oxygen and other nutrients through the capillaries to the other cells of the body. The capacity of red blood cells to carry oxygen into the body and carbon dioxide out is dependent on the surface area and the mobility of the cells. Clumped cells can have a reduced surface area of less than one half normal. No wonder we feel tired and sleepy after a heavy meal!

The second photo was blood from the same person five minutes later, having consumed a glass of our colloidal minerals. The red blood cells are discrete and move freely--all signs of clumping together have disappeared. The

high electrical charge on the colloids has acted several in ways:

1. The colloids have acted to supplement the charges on the cells.
2. The liquid crystal colloids act as carriers for fatty acids in the blood. The increased transport of fatty acids has freed the blood so that it can perform its proper functions.

Our liquid crystal water developed is presently being marketed under two names: Crystal Energy and Crystal Vortex Colloidal Beverage Concentrate.

The entire story can be found in the book "Elixir of the Ageless".

CRYSTALS

The millimeter wave length energies which are emitted by crystals corresponds to the waveband which is emitted and absorbed by the liquid crystals which are found naturally in water.

The structuring of water by means of crystals is probably due to the absorption of this energy by the hydrogen bonds of the water molecules.

Our experience with crystal structured water shows that the structuring effect is temporary. When the water is severely agitated (chaos is added) the structuring effect is destroyed.

When high energy mineral colloids are added to water the structuring is more permanent. If we then energize our colloidal water by means of crystals, the structuring energy of the crystal is absorbed by the colloidal water matrix.

There is an indication that the energy of thought may be en-

code or impressed on blood crystals as blood flows through the brain.

This thought energy may also be impressed on the liquid crystal emissions which are continually being emitted by the conformation of these crystals. This radiation in the millimeter waveband may then be focused and impressed on other crystal forms. By using this phenomena we could conceivably program any kind of crystal with the energy of intention.

Dr. Theodore Schwenk of the Weleda Laboratories has shown that liquid crystals of water can be programmed with planetary energies. In his book, "Sensitive Chaos", Dr. Schwenk describes an experiment in which he was able to impress the negative energy of a solar eclipse into water. This energy was stored for a period of weeks and was then released into bean sprouts in an experiment.

The energy absorbed throughout the entire eclipse was stored in several different containers of water, each one representing a particular phase of the eclipse. When plants were grown with this water, the growth rate was directly correlated with time of the eclipse. Plants grown with water programmed during the peak of the eclipse were all stunted.

Dr. Georgio Piccardi of the University of Milan in his book, "The Chemical Basis of Medical Climatology", has shown that colloids increase the sensitivity of water by hundreds of times. This is due to the increased resonance of colloid structured water.

CRYSTAL RESEARCH

We are continuing our research into phenomena associated with crystals, both solid and liquid. In the meantime we are

using this research to improve our own lives. as Gael Flanagan has put it: "Crystals are the Whales and Dolphins of the mineral kingdom. This knowledge may affect every aspect of life on our planet".

Our work is but a small part of the research going on in various laboratories around the planet. When all crystal research is dawning we may see the dawning of a new "Golden Age".

Architectural structure may evolve which makes use of these energies in our work and living environments. Structures like pyramids may be looked at in a new light when examined in light of these discoveries. We have learned so much since we wrote "Pyramid Power" back in 1972. Ancient secrets revealed in such works as Peter Tompkin's "Secrets of the Great Pyramid" begin to take on new meaning.

In order to remain healthy and to function at maximum efficiency, the living system must maintain a high energy structure in relation to its environment. If the structure receives too much energy for its structure it will die. Impurities, stress and toxins such as drugs tend to degrade the living system and increase entropy.

The growth process is one in which the living system is continually doing battle with entropy--the energy of chaos. The upward spiral of higher evolution is one in which we are continually breaking down old lesser crystallizations of structure and are rebuilding higher structural orders. This is true in material, mental and spiritual domains. If we cease this upward growth we spiral downward toward lower orders of structure and death. As the Avatar Sathya Sai Baba has said, "The funeral procession

begins when we are born and ends on the day of our death". We tend to consider our bodies as garbage disposals and fill our cells with trash, blindly believing that the body's innate intelligence will separate the good from the bad.

We need to increase the flow of energy through our dissipative systems. The quality of energy is of utmost importance. Each part of our being needs to receive energy of the highest order. We need to eat the purest of food, exercise to increase oxygen flow and speed the discharge of entropy from the system. In the realm of the mind and spirit we need to feed energy of the masters and eliminate media entropy from consciousness.

Those energies and substances which enable us to build higher octaves of structure become obvious to us as we gain worldly experience. G.I. Gurdjieff and P.D. Ouspensky describe the path toward higher structure in terms of the octave scale of music.

This description of spiritual growth was Gurdjieff's way of describing the laws of dissipative structures. As we grow into higher more refined structures we reach sticking points from which we cannot grow without 'shock' or release of energy which disturbs the old structure enough so that we can "escape to a higher order".

There is always the danger that the entire system will collapse to a lower order instead of escaping to a higher order. These processes however are necessary to our growth. the process of structural energy turbulence and new order is the most basic law of the universe.

In nature we find quartz crystals which contain flaws. Rarely we find perfect crystals like those found in the Herkimer

diamond. It is interesting that those things which result in the growth of perfect crystals in the mineral kingdom have direct analogs in the human kingdom.

In nature perfect crystals grow in such areas which are isolated from pollution and impurities. These crystals grow in such a way that they are unattached to each other or to other mineral kingdoms.

The same rules apply to the growth, development and integrity of the human body, mind and spiritual nature. Toxins and improper foods tend to disrupt the structure of the liquid crystals in our bodies while pure diet, air, water and thought tends to produce a more refined structure.

Our primary goal is to feed our bodies with a continual supply of mineral colloids and other nutrients so that our bodies will contain an abundant supply of pure liquid crystals so that we may be 'tuned' to the cosmic impulse and thus flow with the TAO of universal energy.

We surround ourselves with harmony and beauty in the form of Pythagorean models of pyramids, polygons, polyhedra and polytopes. Also included are an abundance of quartz and other crystals which radiate structured energy into our entire environment and auric energy fields. These structures resonate and vibrate in harmony without blood crystals, cerebro-spinal crystals, and cellular crystals.

We try to live in a state of total purity so that our own inner crystals will resonate to finer and finer energies.

CRYSTAL VORTEX™ Colloidal Mineral Concentrate is now available for research from Borderland Sciences. A 1.25 fl.oz. bottle is \$15. Add \$1 P&H. Californians add tax.

I ONCE WAS A LAW BREAKER AND PAID THE PRICE

Vivien Morris, D.C.

It is easy to be a law breaker because everything is governed by laws. I'll tell you a little story about myself and about laws.

When I came to Los Angeles in 1940 my body was dying -- DYING. I had flu three or four times a year, constant headaches, allergies, etc. My health was on a toboggan going down hill.

I had been breaking the laws of health, breaking the laws of the body. My worst offense was addiction to white sugar. As a child I could make all the fancy candies. I was hooked on that stuff. Big business promotes sugar as a food. Processed sugar is not a food, it is a drug, and it is addictive.

What is the strongest instinct? It is the instinct of survival! With body language the body was telling me that I must do something about it if I wanted to survive.

Well, one day when I was looking in a mirror, something clicked! At age 38 I looked like a woman of 60 or older. As I stared at that disgusting image, I pointed to its face and vehemently shouted "I'm going to make you over." I meant it inside, and that makes things happen.

I stopped spending thousands of dollars on medical doctors and taking their poison pills. Not one of them asked me "What do you eat?"

I made a serious study of nutrition and natural healing methods, and began giving obedience to the laws of health. For an entire year I followed a regime of cleanse and rebuild, cleanse and rebuild. My reward? The stored poisons were eliminated from my system, and I was on the way up!

I can prove to anyone that a sick old body can be transformed into a body that is never sick!

God help us to obey the laws of the universe. If we want to graduate from this School of Earth we must obey the Cosmic Laws. One of them is that WE CAN APPLY THE WHOLE OF THE LAW IF WE SEND OUT DIVINE LOVE TO EVERYBODY AND EVERYTHING ALL THE TIME.

AIDS INC.

Scandal of the Century

by Jon Rappoport

Reviewed by Alison Davidson

"Face it, what most of us know about AIDS comes through our television sets. But because information on AIDS is scientific, it's hard to be selective. We aren't doctors. Therefore, we have to trust that what we are seeing and hearing is true.

Unfortunately, that is a mistake.

AIDS is a word which, through repetition, has become a sword, a piece of hypnotic death-dealing."

AIDS INC. by Jon Rappoport, is a powerful statement about the true cause of AIDS. Through relentlessly probing the guarded citadels of science, medicine and the media, the author presents us with an authoritative picture of where and how the AIDS myth originated. It is not a pretty or popular picture. But for those concerned with truth and humanity it is vastly illuminating.

Chapter by chapter Rappoport explodes the myth perpetrated by human greed for money and power. The media hype about HIV (human immunodeficiency virus) being the cause of AIDS - even though you can be diagnosed as having AIDS without testing positive for HIV - is fed by press people who work at universities and public health agencies. They report what they are told to. But here we learn from interviews with top researchers, including an eminent molecular biologist, that there is no proof of HIV causing AIDS disease. AIDS is not one single thing, and no conclusive proof exists that we have a contagious epidemic caused by a virus.

So, Rappoport asks, "What is AIDS actually, when you strip away the terroristic label? As I say,

it is not one thing. It is any form of severe immuno-suppression, from any source, which then gives rise to opportunistic infections."

Following the trail of immuno-suppressive causes, the author finds a central point in the high statistics of heavy drug users diagnosed as AIDS victims, that drugs, alone, adulterated, or in combinations, can cause symptoms we call AIDS. The massive abuse of antibiotics to treat sexually transmitted diseases like gonorrhea and syphilis can cause a great deal of immunosuppression and when the immune system is reduced, infection sets in. Many symptoms of what is called AIDS are also symptoms of toxic reactions to chemicals, or of already known illnesses.

"In every spot on the globe where AIDS is said to occur, we find researchers have avoided a thorough study, a ground-level examination of ingrained immuno-suppressive factors that already exist."

The trail leads from the gay bathhouse scene of Los Angeles, New York and San Francisco where unprecedented quantities and combinations of medical and street drugs are consumed - to the Third World, where the "AIDS plague" is said to be running rampant. Pesticides restricted in the US because of their dangerous toxicity, are dumped into Africa and Latin America. It's a lucrative market for pesticide manufacturers, and the Western pharmaceutical giants who make around \$20 billion a year selling drugs, often banned in the US, to these people. The side effects of many of these drugs and chemicals are identical to the symptoms of AIDS.

And then there is starvation, long-term chronic malnutrition which is recognized as the single largest source of immune-

suppression in the world. Combine drugs, pesticides, starvation, and older diseases and, as Rappoport says, the symptoms are all there. Call it AIDS.

"There are many possible payoffs in asserting there is one cause for one global epidemic that encompasses virtually all human immunosuppression." The major one of course, is that pharmaceutical profits will soar with the treatment drugs and vaccines necessary for combatting this "plague".

And there is another, equally chilling scenario..."no better way exists to cement national control than through medical channels. There are no political issues to promote, no ideologies to enunciate. All that's needed is the insistence of medical authorities that the Health Emergency dictates instituting curfews, postponing elections, and establishing detention centers for the afflicted."

Read about the state laws already passed in America to combat the "AIDS plague". Or where in Sweden the world's first escape-proof AIDS colony is already being established. Discover the truth about the single medical drug called AZT licensed to treat people diagnosed with AIDS. Loosely prescribed by doctors in increasing numbers, even for patients who have no symptoms, only HIV positive, this sinister drug is dangerous, expensive, and very destructive to healthy cells.

Rappoport also explores the hidden sources of immunosuppression which ordinarily escape the public eye, such as the biomedical research laboratories where accidents can, and do, happen, releasing dangerous viruses into the general population. Not surprising when perhaps 100 million lab animals are killed

in experiments in thousands of labs each year. Or the dark potential effects of lab altered viruses, genetic mutations, accidentally or purposefully let loose from chemical-biological warfare research labs, with their budget of about \$100 million a year. Or the immunosuppressive effects of vaccines which have not been thoroughly researched.

Rappoport's documentation is impressive. The book abounds with case studies, interviews and reports from around the world. Ultimately AIDS is presented as a story of money and power, for after all, health is the biggest consumer movement in America.

But all is not gloom and doom, and the author outlines strategies for combatting the purveyors of untruth in their ivory towers. He writes: "After such a failure of AIDS research, in all its aspects, the most intelligent thing to do for the health of the US may be to cut off funding for NIH (National Institute of Health), disband it, dismantle the buildings, throw some seed on the ground, forget it was ever there and start over. Start over with the premise that health is supposed to benefit people. It has nothing to do with selling cascades of new pharmaceuticals. It doesn't have anything to do with winning Laskers and Nobels. If a researcher likes shucking the public, let him go into selling. If he enjoys participating in useless and false research in a silent way, let him become a speechwriter. But get him out of public health."

AIDS INC. published by HUMAN ENERGY PRESS, Suite D, 370 West San Bruno Avenue, San Bruno, California 94066. \$13.95

(Review copy was gift of George Trinkaus of High Voltage Press. THANKS!)

COSMIC WEATHER REPORT

By Alison Davidson
& Tom Brown

Solar activity for Cycle 22 has continued to increase with high numbers of sunspots during several major flare intervals. Corresponding with this period of December 1988 through February 1989 we also saw an increase in airplane accidents and contagious diseases (influenza & measles).

Dinshah P. Ghadiali writing in his SPECTRO CHROME MAGAZINE for August 1922 reports, "Through the French Academy of Medicine, Drs. Vallot, Sardou, and Faure report that their observations show sun spots capable of influencing the heart, liver, intestines and blood and also aggravating the seriousness of accidents. All this and much more has been recognized very minutely by the ancient sages of India."

Back in the 1950s, John H. Nelson was predicting the radio weather, based on his observations of sun spot activity as well as the positions of the planets in relation to the sun. (See JBR, July-August 1988)

From this heliocentric point of view, the planets are endlessly circling, forming alliances and separating from each other. Nelson discovered that when certain of the planets came into angular relations with each other, severe magnetic storms and radio disturbances occurred. The planets with the strongest effects are Jupiter and Saturn, especially when Mars, Venus, Mercury and the Earth are closely aspected to this Saturn-Jupiter configuration.

To further check out these astronomical and astrological connections with the Sun, we entered the time and date of the largest solar flares over the last 13 months into our computer. And sure enough, every one of those charts printed showed the above mentioned planets in angular relationships.

December of 1988 and January/February of this year have been months high in solar flare activity, and it's interesting to note that this activity coincides with Jupiter coming into 150 degrees aspect with Saturn.

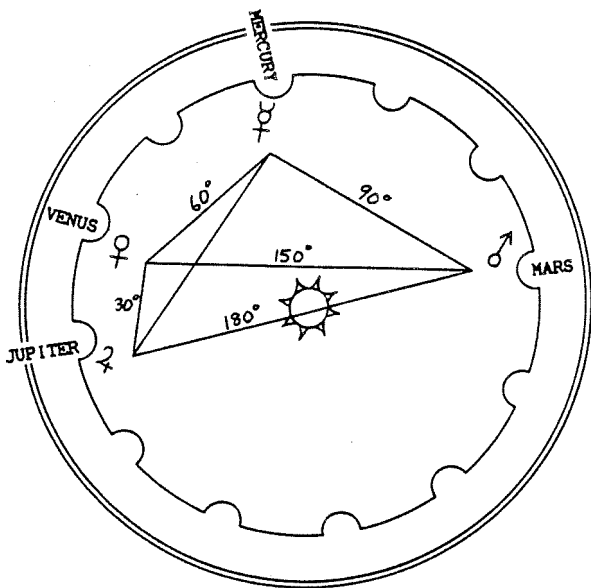
On December 15, Jupiter was within 3 degrees of 150 to Saturn, an aspect known as a quincunx in astrology. By January 7th Jupiter moved into the exact aspect and remained there through January 14th, and during this week there was the most intense solar flaring for the past year.

On the scale...C, M, X

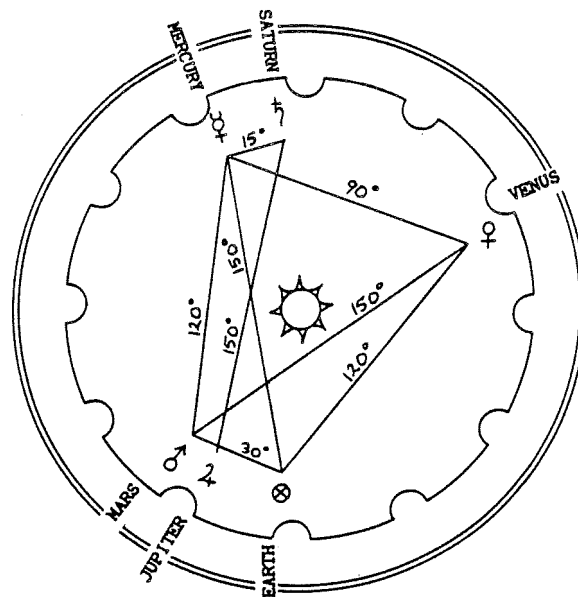
Dec 16	-	X4.7
Dec 30	-	X1.4
Jan 7	-	X1.1
Jan 10	-	X1.4
Jan 13	-	X2.3
Jan 14	-	X2.1
Jan 18	-	X1.4

As Jupiter slowly moves out of the exact aspect with Saturn, the solar activity seems to be subsiding. But there are other planets to take into consideration, as mentioned above, and during this period from December 30th, Mars and Mercury moved in more quickly to exactly conjunct Jupiter. Venus and Earth also figured strongly in the pattern as the charts on the next page illustrate.

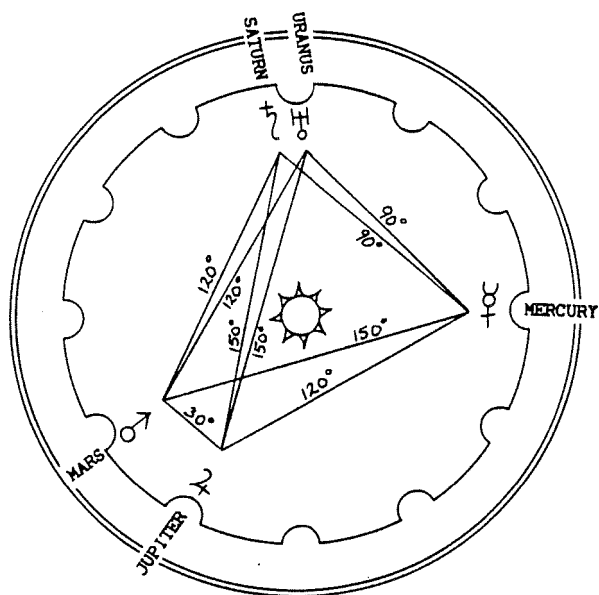
These are particularly clear examples of the angular aspects occurring during solar flares from the last 12 months:



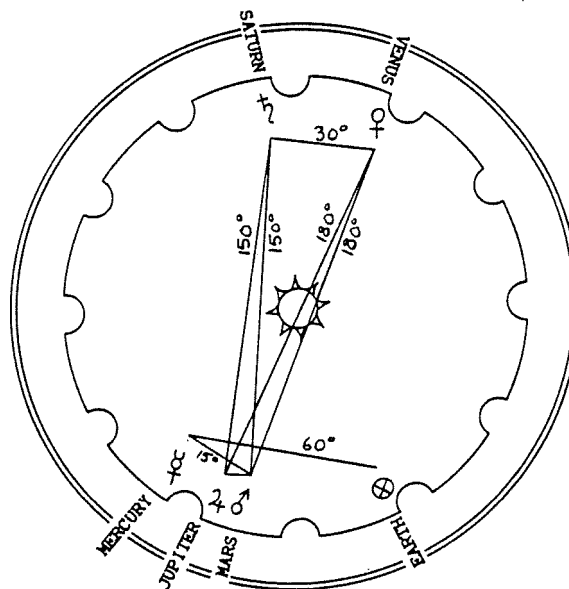
January 2, 1988 - X1.4



December 16, 1988 - X4.7



November 9, 1988 - M9.7



January 13, 1989 - X2.3

ETHER AND REALITY

A Series of Disclosures
on the Many Functions of the
Ether of Space
by Sir Oliver Lodge (1851-1940)
Published by Hodder &
Stoughton, Ltd., London, 1925
Book Review by
Blair Michael Cleveland

If you have interests in what modern physicists call the quantum vacuum, then a book you may find worth reading is **ETHER AND REALITY** by Sir Oliver Lodge.

The book begins by questioning - "What fills empty space?" followed by many profound statements which will prepare the reader to begin thinking of the physical universe in a an entirely different way.

The author puts forth a hypothesis regarding the electrodynamic nature of the ether. For instance, he states, "...we cannot grip it [the ether] in the ordinary way: we can only get at it electrically. We are straining the ether when we charge a body with electricity: it tries to recover, it has the power of recoil."

Lodge gives his conception of the electron by pondering that the electron is a hollow sphere of specific electric charge, and that it is kept in equilibrium and of a certain size by the enormous "pressure" of the ether.

The chapters on magnetism and electromagnetism prove insightful. containing, for example, the notion that magnetic loops, or lines of force, are pre-existent. and that an electric current can only open-out these "elastic-like" loops, thus generating a perceptible magnetic field.

The lattermost portion of this book is of a metaphysical or mystical nature, which gives one the impression that Sir Oliver Lodge was a man of far-reaching intellect.

The following is a notation of important statements as discussed by Lodge in this book.

CHAPTER I: THE ETHER AND ITS VIBRATIONS

"What fills empty space? ...space is full, not of matter, but of ether. The ether is other than matter; and it fills all space in the most thorough manner: there is nothing so omnipresent and so efficient in the physical universe."

"...it is altogether too uniform for direct apprehension. A deep-sea fish has probably no means of apprehending the existence of water, it is too uniformly immersed in it: and that is our condition in regard to the ether."

"We are constantly closing our minds to reality, or rather we are living among realities of which we have no apprehension. Open our eyes that we may see! Should we not ask this?"

CHAPTER II: FUNDAMENTAL NOTIONS ABOUT AN ETHER

"The first thing to realise about ether is its absolute continuity."

"Matter is discontinuous;"

CHAPTER III: ON WAVES

"But in the ether, waves travel a million times as quickly: hence the ratio of elasticity to density in the ether must be enormous. The important thing at present is to realize that the fact that the ether can transmit waves tells us something about its proper-

ties, tells us that it must possess something akin to elasticity, giving it a power of recoil, and something akin to density or inertia, giving it momentum. We must not suppose that these properties are due to the same cause as those of matter, but they must have some analogy. The possession of these properties makes the ether very real: and the fact that it can transmit waves at a definite and ascertained speed tells us already a good deal about it, and shows that it is a real substance, whose properties we mainly study under the heads electricity and magnetism."

"All we know about it is that it is not mechanical like the other things: Clerk Maxwell taught us that it was electrical, that it is the property as we use when we charge a leyden jar. We have no means of getting hold of the ether mechanically: we cannot grip it or move it in the ordinary way: we can only get at it electrically. We are straining the ether when we charge a body with electricity: it tries to recover, it has the power of recoil."

"The ether has two properties, an electric property and a magnetic property, the one corresponding to elasticity and the other to density.:

CHAPTER IV: THE ETHER AS TRANSMITTER OF FORCE

"In other words, that in cases of apparent contact there is really an interval, though an extremely minute one, separating the two bodies, across which infinitesimal interval the force has somehow to be transmitted."

"There is always an elastic cushion which keeps the bodies apart: they both modify the

ether in their neighbourhood; and a book resting on a table is really reposing on a cushion of ether."

CHAPTER V: ACTION AT A DISTANCE

"...: The whole cosmos is welded up onto a unity, every part connected with every other part."

CHAPTER VI: ELECTRICITY AND ITS ACTION ACROSS SPACE (What An Electric Charge Is Like)

"The whole mass of any body is just the mass of ether surrounding the body which is carried along by the Faraday tubes associated with the atoms of the body. In fact, all mass is mass of the ether; all momentum, momentum of the ether; and all kinetic energy, kinetic energy of the ether. This view, it should be said, requires the density of the ether to be immensely greater than that of any known substance." - Sir J.J. Thomson.

"When a jar is full of gold or of lead, it does not contain more substance than when we think it empty." - Descartes.

"In other words, the apprehensible modification of ether that we call matter need not be any denser or contain more real substance than the rest."

"...I have ...elsewhere, given the density of ether compared with water, as 1 followed by twelve 0's, - of that order of magnitude."

"...so if the density is granted, the elasticity is known too. It must be expressed as 1 followed by thirty-three 0's. It is excessively great!"

"What kind is the elasticity of ether?... The simplest plan is to assume the simplest case, that it corresponds in some way

to the incompressibility: in other words that it represents or involves or has the same value as the pressure. I shall make the further hypothesis, that everywhere the ether is under a pressure by 10^{33} ."

"The charge of the electron is in equilibrium, on a sphere of known size, under this enormous etheric pressure."

"One guess is that the electron is hollow, like a bubble, that it has an electric field which by itself would cause the bubble to expand, but that it is kept in equilibrium and of a certain size by the etheric pressure."

"...Its [electron] apparent mass is due to its electric field and to nothing else."

CHAPTER VII: MAGNETISM

"A magnetic line of force has no ends, it is always a closed loop: ...If we call these loops magnetism, we never generate magnetism; we open it out. The act of magnetization opens a loop out, and, being elastic, it is always trying to close up. When a loop encloses two bodies, and then shrinks, it pulls them together as if they attracted each other. That is magnetic attraction."

"...an electric current can open out pre-existent magnetic loops and thus generate a perceptible magnetic field."

CHAPTER VII: ELECTROMAGNETISM

"The moving electron had extra mass, --temporary matter, -- and that extra mass, when it stops, is converted into a quantum of radiation."

"But now comes an important though perhaps rather difficult point. The magnetic field sur-

rounding the electron possesses energy; it possesses momentum, it is responsible for its inertia; it probably contains the clue to the meaning of inertia. In what form is the energy in a magnetic loop or ring?"

".... Sir Joseph Larmor.... has surmised that round a magnetic loop the ether is circulating, -- not necessarily quickly, but circulating, -- as a curtain-ring might be spinning in its own plane, or like the rim of a spinning-top or fly wheel; and that the energy is represented by this circulation."

"Stop the magnetic circulation in a loop, it flies away, -- not like the [spinning] top, but by expansion; thereby a disturbance is generated in the ether which we call either X-rays or light, according to circumstances."

"One way that I have suggested of verifying the supposed circulation is to make a very strong magnetic field, and send light along it, first one way and then the other, or rather simultaneously, and see whether one is accelerated and the other retarded."

CHAPTER IX: MATTER AS ONE OF THE FORMS OF ETHER ENERGY

CHAPTER X: LIFE AND MIND AND THEIR USE OF THE ETHER

"...it has been spoken of as absolute space; it is also called 'the continuum'."

"No law of dissipation applies to the ether; that is what I mean by saying that its properties are perfect."

Dr. Nikola Tesla and His Achievements*

By SAMUEL COHEN

PERHAPS the ever-broadening field of invention has never known a genius more successful in developing far-reaching and original inventions than Dr. Nikola Tesla, whose name is known in every corner of the globe for his scientific achievements.

Dr. Tesla was born in 1857 in Smiljan, Lika, border country of Austria-Hungary. His early education was obtained in the elementary school of his native place. He

in Budapest, Hungary, where he made his first electrical invention, a *telephone repeater*—and conceived the idea of the *rotating magnetic field*, which later made him world famous. It may not be amiss to devote a few moments here to the manner in which this prince of savants approached the idea of the rotating field and *induction motor*.

One day while attending the University, one of the Professors was demonstrating

but hearing of the rapid growth of the electrical industry in America, he promptly decided to come to this country, which he did in 1884, and since then has been a naturalized citizen of the United States. To this country he brought with him the various models of the first induction motors, which were eventually shown to George Westinghouse, the great American inventor, and it was in the Westinghouse shops that the induction motor was per-

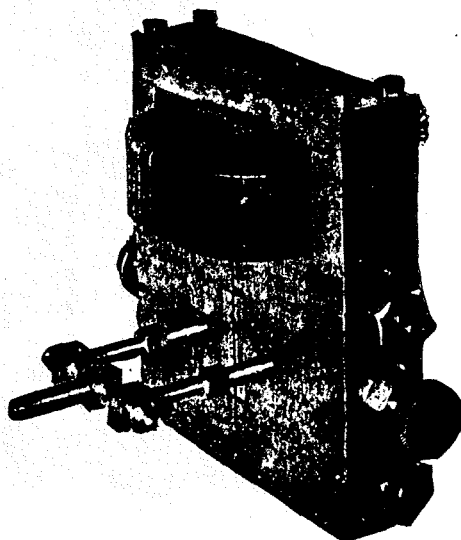


Fig. 6. Unique Alternating Current Generator for exciting Tesla's early "Beat" Receptor. Actuated by Compressed Air or Steam Which Vibrates a Special Diafram-Coil.

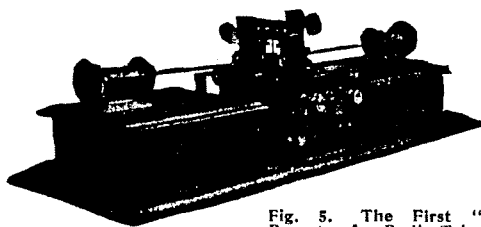


Fig. 5. The First "Beat" Receptor for Radio-Telegraphy invented by Tesla, Which Fore-shadowed the "Heterodyne."

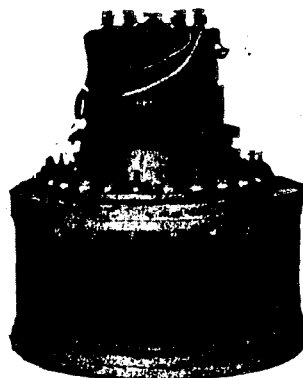


Fig. 4. A Massive Mercury Interrupter Devised by Tesla for Handling 50 H. P. of Electrical Energy at a Rate of 100,000 Breaks Per Second.

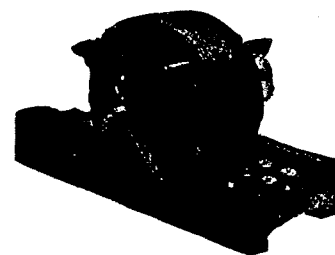


Fig. 1. Shows the First Alternating Current Induction Motor, Perfected by Dr. Tesla Prior to the Year 1884, in Which Year He Came to America to Take Up His Life Work.

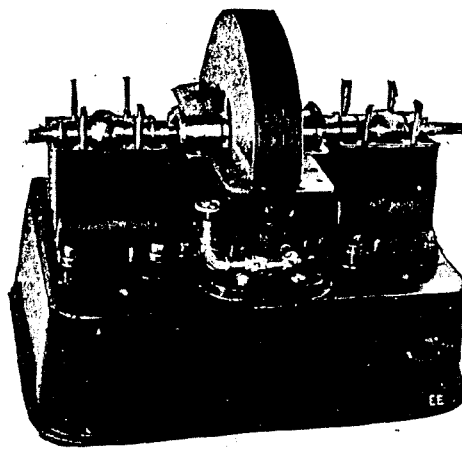


Fig. 7. The Wonderful "Tesla" Steam Turbine; the Steam Flows Radially Up Between the Vanes, Not Against Them.

continued his studies in the public school in Gospic, Lika, and after spending a period of four years in the Lower Real School in Groatia, he graduated in 1873.

His parents originally desired him to study for the clergy, which can be readily understood when one considers that Dr. Tesla's father was himself a very noted clergyman and orator. However, young Tesla had his mind set on mathematics and physics, and after prevailing upon his parents for permission to study engineering, he entered the Polytechnic School at Gratz, where for four years he studied mathematics, physics and mechanics, after which followed a two year course in philosophic studies at the University of Prague, Bohemia. His practical career started in 1881

an experiment with the Gramme armature type of dynamo, when the idea occurred to the young physicist that the sparking at the commutator, which he alone had minutely observed, could be eliminated. The professor immediately denied that this was possible, but with a steady mind and self-conviction, young Tesla determined to work out his ideas, with the result that the modern induction motor was developed, which operates solely from alternating current and requires no commutator of any kind, thus overcoming the nuisance of sparking inherent in former type direct current machines.

Realizing the value of his invention he left for France in an effort to interest some one in his device, but his efforts proved fruitless. At the time he was employed by a prominent European engineering concern,

perfected by Nikola Tesla. Numerous patents were taken out on this phenomenal prime-mover, all of which are under Dr. Tesla's name, and he was therefore the first person, beyond the shadow of a doubt, to introduce the rotating field principle, in perfecting the induction motor, which is to-day universally used.

Fig. 1 shows the first induction motor, and altho unique in construction, it developed $\frac{1}{4}$ horse power at 1800 revolutions per minute and weighed but 20 pounds.

Large sums of money were expended by Dr. Tesla to protect his patents on this prime-mover, and he was at the time not permitted to express himself in print or give the history of his invention; thus, many erroneous impressions were entertained regarding his inventions. He was far ahead of Ferraris, Schallenger and

*Special interview exclusively for THE ELECTRICAL EXPERIMENTER.

many other early, able investigators.

Later another type of machine was brought out by him, in connection with his work in electric power transmission. This one had a field energized by currents of different phase relation (i.e., while one current was at zero amplitude the other would be at maximum, etc.), producing a rotating field in which conductors were employed, and in this way the high frequency current was obtained. This type of machine was subsequently developed by Goldschmidt and is now known under that name, altho Tesla described this principle in a patent dated 1889.

His next work which attracted universal attention was the production of high frequency currents at high potentials. Our readers are no doubt familiar with the tremendous electrical discharges which have been illustrated in several of the previous issues of THE ELECTRICAL EXPERIMENTER. All these experiments were first performed by this genius and never duplicated. One of the first high tension apparatus built by Dr. Tesla is shown in Fig. 2. Incidentally we might mention that this instrument was first used in Europe by Lord Kelvin, the noted English mathematician and scientist, who used it for his lecture demonstrations at the Royal Society. The apparatus consists of a step-up transformer, and a specially built kick-coil, which boosted the secondary transformer voltage to an enormous value. This coil is seen resting horizontally at the back. The terminals of this coil are connected to the large spark gap, which, when the apparatus was excited, was filled with a spark two feet long. The high tension condenser is inclosed within the cabinet. The large coil is used as kick-coil for increasing the voltage. With this device Dr. Tesla was able to obtain a potential of one million volts, which is quite extraordinary with such small apparatus.

Dr. Tesla can rightfully claim priority in employing conical coils for high frequency work, as Fig. 3 shows the first conical coil ever employed for such work, as early as 1892. This coil was excited by means of a powerful transformer. The discharger consisted of a multiple gap, commonly called to-day the quenched gap,

which will be noted at the left of the huge coil. An interesting feature of this coil is that a finer wire winding is used at the upper end so as to increase the voltage at that point.

The machine in the foreground is a 50,000 volt direct current dynamo, which was employed in many of his experiments on high potential electricity. In conjunction with the experiments on high voltage direct current, Dr. Tesla developed numerous interrupters for breaking these tremendous currents, the largest one ever built being that shown in Fig. 4. This massive circuit-breaker handled with great ease 50 horse-power of electrical energy at an interruption rate of 100,000 breaks per second. The interrupter consisted of a large chamber in which a circular suction cog was placed, driven at tremendous speed by a motor stationed on top. The rotor or cog operated in a column of mercury in such a manner that each stud of the cog made contact with the pool of mercury, thus making and breaking the electrical circuit. Dr. Tesla employed this interrupter for his wireless researches in 1900.

Dr. Tesla's most important work at the end of the nineteenth century was his original system of transmission of energy by wireless. In 1900 Tesla obtained his two fundamental patents on the transmission of true wireless energy covering both methods and apparatus and involving the use of four tuned circuits. He also obtained a number of other patents at the same time, describing many other improvements. Among these may be mentioned his application of refrigeration and the oscillatory systems with which he obtained remarkable results in his well-equipped laboratory on Houston Street, New York City.

In 1901 and 1902 several patents were granted to him describing a number of improvements, among which two have assumed great importance in the radio art; one of these is known under the name of the "tone wheel" and the other the "tikker." Others are making claim to these inventions, but Tesla was far ahead of any of them.

At a little later date Tesla secured two patents on what he termed the principle of individualization, involving the use of more than one oscillation for the operation of the receiver. This property is now known under the commercial name of beat receptors. In long protracted interference proceedings carried on in 1903, however, Tesla has been accorded full and undisputed priority over Fessenden and other claimants. His first beat receiver is shown

in Fig. 5, which consisted of a steel band stretched above a powerful electro-magnet excited by a high frequency current, caus-

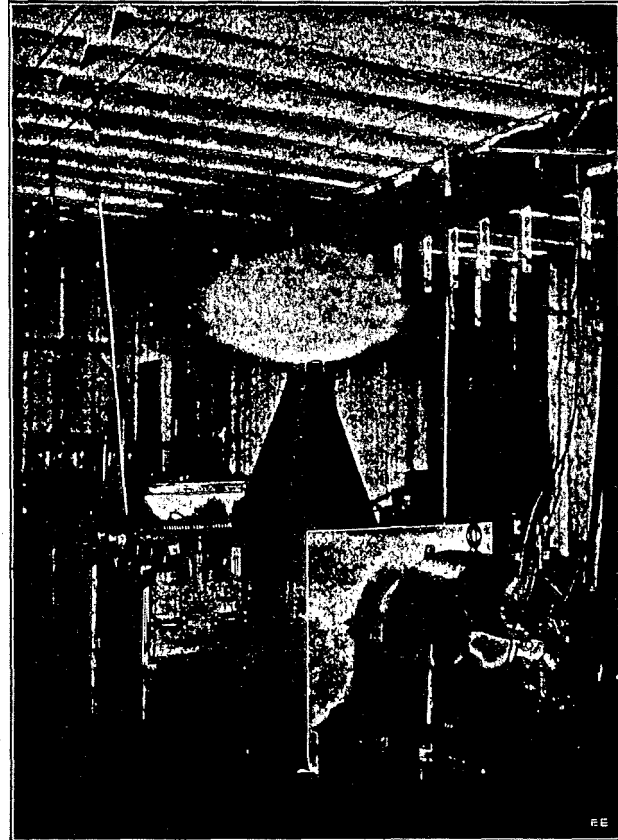


Fig. 3. A "Tesla" Conical High Frequency, High Potential Oscillator Coil Delivering a Very Powerful Discharge Several Feet in Diameter. The Condensers May Be Seen at Right and Left of Coil, as Well as 50,000 Volt D. C. Dynamo in Foreground.

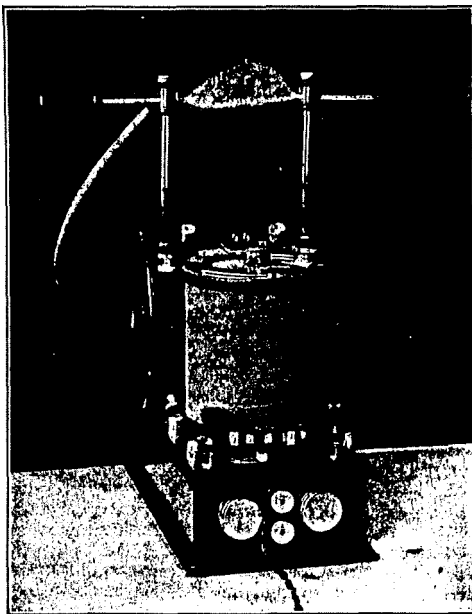


Fig. 2. An Early "Tesla" High Frequency Developing 2 Sq. Ft. of Streamers With 25 Watts Input. First Used in Europe by the Late Lord Kelvin in His Lectures Before the British Association for the Advancement of Science.

ing the steel band to vibrate at an enormous rate. A small sensitive electro-magnet is placed in proximity to the band, in which is produced an alternating e.m.f., and this is acted upon by the received wave.

The apparatus is timed by adjusting the periodicity of the band until the received wave is made audible. The large electro-magnet was usually excited by means of an alternating current generator, and this is illustrated in Fig. 6. Like all Tesla inventions, the construction of this oscillator is very unique, consisting of two chambers in the center of which is placed a vibrating membrane. This is inclosed in a magnetic field, consisting of a powerful coil encircling the device as seen and which was excited by a direct current. The membrane was caused to vibrate by passing interrupted, compressed air thru the two chambers by the inlet pipes as indicated. In the process of vibration, an e.m.f. is produced in a coil secured to the vibrating disc.

A patent was granted to Dr. Tesla in 1914 on an improvement of far-reaching importance in wireless work. The application was filed in 1902. It describes a new form of transmitter with which, according to Tesla's statement, an unlimited quantity of energy can be transmitted from a small and compact plant. This transmitter possesses the wonderful feature whereby static—the one nuisance of the radio art, and any other interference can be completely eliminated, because of the speed with which the receivers can be

(Continued on page 777)

DR. NIKOLA TESLA AND HIS ACHIEVEMENTS.

(Continued from page 713)

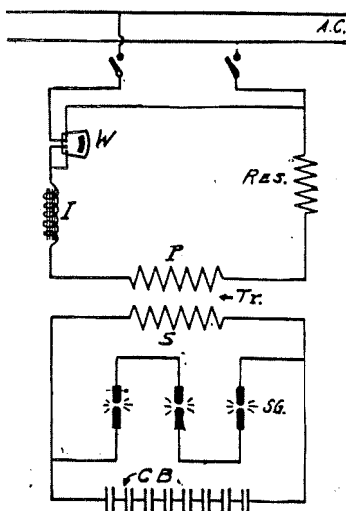
operated; it being possible to throw them in and out of tune by a variation of not more than one thousandth of one per cent of the wave length. He has also evolved a *static preventer* which has been successfully tested several years ago. He is at present engaged in preparing these instruments for the market.

This great scholar and philosopher has not devoted his time to electrical devices alone, but recently turned his attention to a new form of prime-mover, which will develop more power than any other motor or engine, and he has stated that it is within the limits of practicability to develop 20 horse-power for each pound of engine weight. The Tesla turbine is shown in Fig. 7. It consists simply of a number of flat steel discs properly balanced. At the lower end of the case an inlet is situated thru which steam or compressed air is forced at a pressure of 100 to 200 pounds per square inch. The steam does not exert pressure against the rotor blades sidewise as in other types, but shoots thru between the blades edgewise. The velocity of the moving steam jet and the peculiar frictional effect resulting is sufficient to rotate the turbine spindle and blades at high speed and with unprecedented torsion or turning effort in foot-pounds. This machine herewith illustrated develops 200 horse-power, and there is no reason why such a machine could not be employed for drawing automobiles, aeroplanes and other vehicles, due to its marvelous simplicity and extreme lightness of construction.

It is further understood that he is perfecting a turbo-driven generator for high frequency currents to be used chiefly in radio-telephonic work. It will be very small, compact and entirely reliable, and will no doubt revolutionize wireless telephony.

This master magician of modern electrical science has spent a fabulous amount of time and money in perfecting his inventions, and we are bound to await with great expectancy the next great stride in scientific development which will mark another epochal invention of Dr. Nikola Tesla.

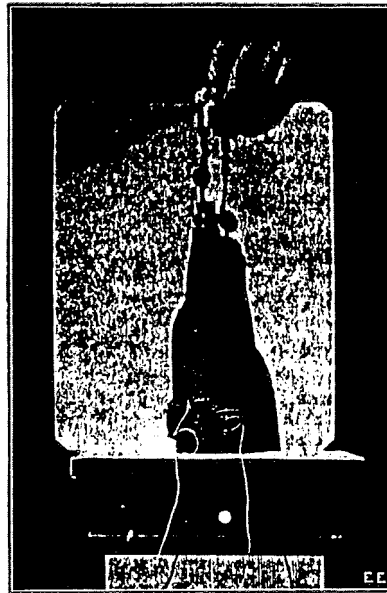
Ultra-Violet Ray Generator (No. 1,207,347; issued to Joseph Von Kowalski-Wierusz.)



A source of alternating current supplies a step-up transformer, the secondary circuit of the step-up resonance transformer containing the special arcs SG, and condensation battery CB, of the proper size.

A "BOTTLE" HIGH FREQUENCY TESLA COIL.

The high frequency coil shown in the photograph was made by winding an old



Tesla Coil Made from Bottle and Capable of Giving a 3-inch Spark.

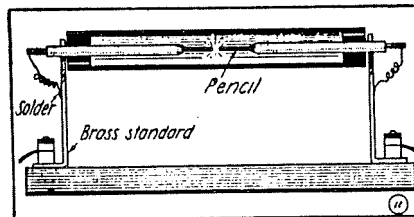
bottle, near the bottom, with a primary of six layers of No. 12 rubber covered wire. The secondary winding consists of a layer of No. 20 D.C.C. wire carried to the top. The knob on top is made from an old bell tapper inserted in the cork. The coil shown is capable of delivering a three inch spark when properly connected.

Contributed by A. E. GLAZIER.

SIMPLE EXPERIMENTAL ARC.

This quickly made arc consists of a glass tube, fitted at both ends with cork plugs, or stoppers, thru which pass two ordinary writing pencils cut so as to have their graphite rods protruding at both extremities. The battery wires are connected as shown in Fig. 1.

Such an arc answers very well for experimental purposes and gives excellent



Experimental Arc Formed of Two Lead Pencils in Glass Tube.

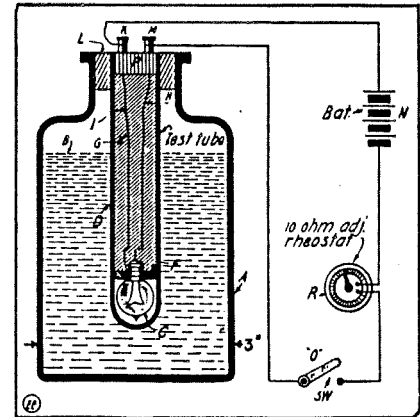
results when connected to about 18 volts.

Contributed by JOHN T. DWYER.

A BICHROMATE DARK-ROOM LAMP FOR PHOTOGRAPHERS.

The principal advantage of the bichromate dark-room photo developing lamp over other types, is that it gives a much brighter and stronger light, thus enabling the photographer to work in greater comfort without endangering his undeveloped plates. The following is a description of a lamp of this type which can be easily made and will be found to be very successful.

A glass bottle A, is filled with a solution of bichromate of potash. (A good red solution can be made also by dissolving a 5-grain permanganate of potash tablet in about 25 ozs. of warm water. The degree of color can be controlled by removing the tablet before it is entirely disintegrated, or for particularly dark reds more than one tablet may be used. They cost about ten cents a dozen.) Immersed in the solution is a small electric lamp C, supported by a test tube D. The lamp is connected by two wires H and I to two binding posts K and M, and these are connected in series with a battery consisting of two dry or other cells N and a switch O. The light produced by the lamp C is forced to pass thru the bichromate of potash solution and this permits only certain red rays to pass, thus producing a safe light for photographic work. To construct this lamp first procure



Dark-room Lamp Made from Battery Lamp, Test Tube and Red Solution.

a wide-mouthed bottle of about 3" diameter by 5" high, and a cork-stopper L to fit this bottle. For the lamp C, choose a miniature screw base metal filament lamp of about 3 volts and 1.5 to 2 candle-power. D is a test tube 3/4" dia. by 3" length. The figure shows the method of mounting the lamp bulb in the glass test tube. F is a cork stopper which fits D tightly and has a hole bored thru it to suit the base of lamp C. Twist the bulb thru the hole in F and solder a short copper wire, about 6" long, to each contact of the lamp, i.e., to the side and the bottom. A similar stopper P, is required, which must also fit snugly into D and this stopper carries two binding posts K and

"THERE'S MONEY IN IT"

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B.S.R.F. BULLETIN BOARD

The B.S.R.F. Bulletin Board is a section for Letters, Reviews, Events, Contacts & other useful information for Borderland Members to aid in their researches. We encourage BSRF Members to submit contributions & information to B.S.R.F. Bulletin Board, PO Box 429, Garberville CA 95440. Letters should be addressed to LETTERS TO THE EDITOR, c/o the above address.

LETTERS

R. MURRAY DENNING

"Sadly I have to tell you that Murray passed on to another life last November (1988), after a short illness in the hospital resulting from a bad fall. He needed two operations on his left leg, and the shock were more than his frailty could stand. He did not suffer unduly, but his mental distress when he realised he would not be able to finish the work he had set himself was acute."

Annice Denning
United Kingdom

We were saddened to hear of Murray's passing and we send our condolences to his family and friends. Murray has been a helpful correspondent since Alison and myself began running Borderland in late 1985. The first article we ran in our first issue (JF86JBR) was a review of Murray's MY SEARCH FOR RADIONIC TRUTHS. We sold out quickly of the small supply of this book and several years later were in a position to reprint the book as Borderland's first paperback. We are happy that we were able to get Murray's book into print in the U.S. to help to preserve his work and make his views available to new generations of radionic researchers. Murray was a British champion of Ruth Drown and her methods and equip-

ment. He also authored the MEMORANDUM ON RUTH DROWN, which we hope to make available this year. Murray also developed his own radionic system called "The Link."

The British RADIONIC QUARTERLY, Autumn/Winter 1988, reports that Murray died on November 18th at the age of 85. All of us at BSRF wish him well in his new appointment and thank him for being a friend while passing through this plane.

WATER OF LIFE

Hi, Concerning your article "Old But New", Nov-Dec 1988 JBR, I just wanted you all to know that the book "The Water of Life" by J.W. Armstrong is in print - I just picked up a copy at my local health food store a few weeks ago...it makes for interesting & convincing reading. Here's the info in the book I bought: (C) Health Science Press 1971, (7th impression 1984). Health Science Press, 1 Church Path, Saffron Walden, Essex, England. ISBN 0-85032-052-6. It's a paperback & I paid \$6.95 for it. Keep up the good work!

F.F., Chicago, IL

Thanks for the info. Glad to know that this information is available for researchers. More books and info on Urine Therapy have come in to BSRF headquarters and are listed in the RECEIVED column.

LITHIUM

"Firstly, submitting this letter as a research document would be as ludicrous as submitting a child's finger painting to the Metropolitan Museum of Art. Therefore it can only be classified as the recounting of an experience, and if it sounds

too naive and lacks technical thoroughness, please excuse on the grounds of my scientific immaturity.

"Reading about effects of plumbing as ground for certain devices in the Jan-Feb "Letters" inspired me to relate the following.

"Last October, I was in contact with Haroldine, of Lithium Labs, and asked if it were possible to use Golden C crystals on intake water pipes to transmute the water. She felt that I was right on target, and described how it would have to be constructed and applied, also mentioning that some of this had been done with shower, tub and agricultural pipes, using lepidolite, and that psychics had noted the colored aura as the water rushed through the pipes. She sent me one of these, as she termed them, 'adaptors', for my research.

"In mid-October, I attached it to the water inflow pipe that runs along the side of the house (old house, old type plumbing). As the weeks progressed, (1) I noted an unusual increase of stamina and energy, and found myself making an assault on tasks that had been avoided for years, and (2), during an extended period in November, the "adaptor" had to be removed due to house painting and other work, and I noted a decline in that energy. I considered the possibility that (1) change to cooler weather could be responsible and, (2), there was added stress at this time. Also, since I don't drink tap water (only Golden C transmuted bottled H₂O), and just use for hygienic purposes, how could it produce this much effect?

"I started theorizing, then, based on the fact that the head

of my bed is adjacent to the wall along which the exterior water pipe runs. I took my pendulum and dowsed along the pipe, and determined that there was a full force lepidolite quartz field within an area of 18-24". I went inside and dowsed the pillow area of my bed. This was about 50%, but at floor level next to the wall, 100%.

"I also dowsed water taken from a spigot in the back yard garden area, and that, too, was positive. This could mean (?) that the water pipes running across and underneath the house would be exerting an effect in other areas, increasing the energy influence potential.

"Although I have tried to be objective in this small experiment of mine, I've no doubt the trained scientific mind will be able to find much to be desired in the line of clinical thoroughness'.

"What puzzles me is, if this is the source of the energy, why doesn't it interfere with my falling asleep?"

Sincerely,
Margaret Fry
West Covina, CA

Thank you for your observations, which are all important in Borderland Science. You are quite objective in your subjective impressions, which is a lesson that science could stand to learn. The reason that the energy allows you to go to sleep is that lithium acts as a balancer, rather than a charger.

Margaret has also donated a Multi-Wave Oscillator to Borderlands. It was constructed by Mike Brown of San Marcos, California and it is reviewed later in the RECEIVED column. Many thanks for your input.

Haroldine no longer has the lepidolite adaptors available, a few were made for a research project in 1981. A current source of lepidolite and lithium crystals is GEMS OF PALA - STEWART LITHIUM MINES, PO Box 382, Pala, California 92059, (619) 742-1356.

We just received a LITHIUM CRYSTAL CANDLE "RADIANCE" from ANGELIC MERCANTILE, Box 207, Mill Valley CA 94942, (425) 388-3965. They have a series of gem candles including Lepidolite, Golden C & Kunzite. The candle puts out great vibes!

In conjunction with Lithium Labs, BSRF now makes available for a limited time WATER JUG GOLDEN C CRYSTALS, mined in 1895. Place the WATER JUG GOLDEN C permanently in gallon jug of water & charge in a dark area away from metal for 24 hours. When 1/2 GOLDEN C WATER is utilized refill jug. The whole jug of water is activated in 5 minutes. WATER JUG GOLDEN C CRYSTALS guarantee lifetime supply of beneficial 'alive' water. Set of 3 small crystals with mini spray bottle for pocket or purse. \$20 & \$2 P&H. Available to BSRF members on all orders postmarked before Sept 30th 1989 (no discounts please).

LESTER J. HENDERSHOT

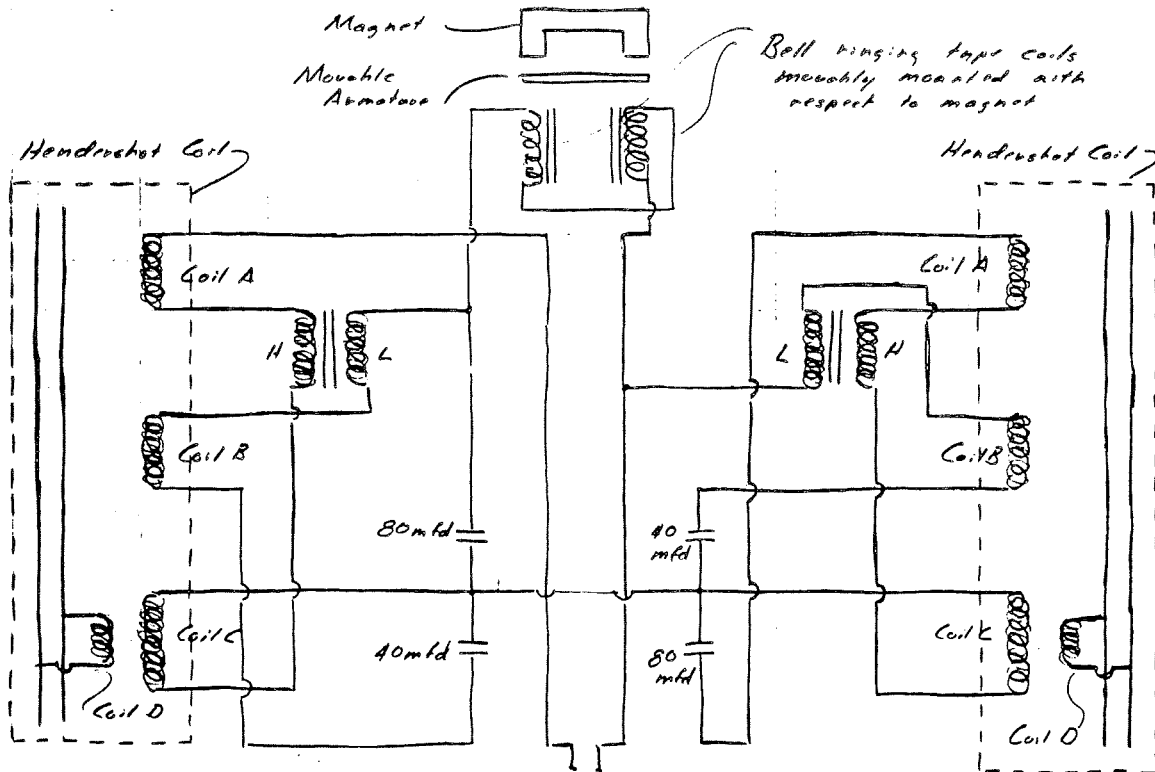
"A while ago you indicated in the Borderland Journal that you were working on a Hendershot publication. At the time I made a mental note to write you regarding my limited knowledge of the subject. Unfortunately I forgot about this until I noticed that your publication on this was now available. In spite of this I think it might be of interest for me to briefly outline what I know of the subject.

"As you probably know Hendershot lived near here (Southern California) during the closing years of his life. He became friendly with the publisher of the local newspaper. The latter happened to be a friend of my wife. He had printed our wedding announcements - for free - when we were all students in Iowa. At about the time he knew Hendershot my wife ran the Linotype at the paper because of the sad state of the family finances. It is probable that she met Hendershot but she does not remember meeting him.

"During this period before his death Hendershot and the publisher became friendly. On a few occasions he indicated to me that he wanted me to meet Hendershot. Since I did not know who Hendershot was and he did not explain at the time the matter of my meeting him did not become a priority matter with me. Also the publisher's priorities in earning a living did not include the matter of introducing Hendershot and myself.

"After Hendershot had committed suicide the publisher brought over to me a collection of photos he had taken of a Hendershot device which he had taken when he stored it - in operative condition - in his garage for a period of months when Hendershot was concerned about someone taking it if he had it in his possession. Unfortunately the photos did not adequately disclose any technical details. It is equally unfortunate that he wanted and got them back. There is a vague chance that the publisher's widow might still have them.

"The publisher told me that the device had operated

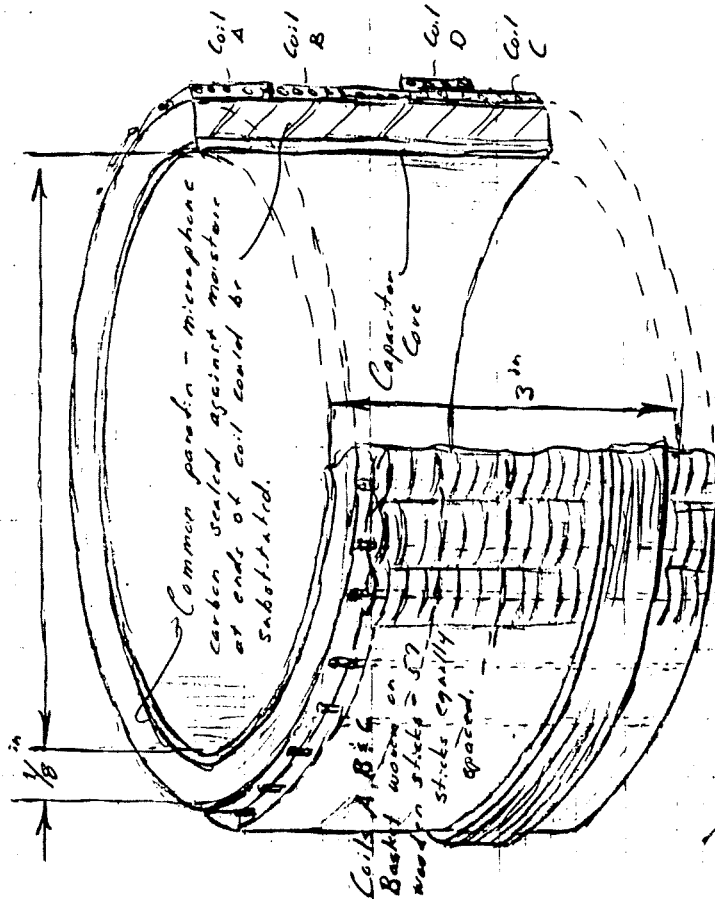


Transformers - H - 250 Ω , L - 1 Ω
 5 to 1 winding ratio, conventional
 push-pull radio transformer

HENDERSHOT
 A-C CIRCUIT
 AND VERSION

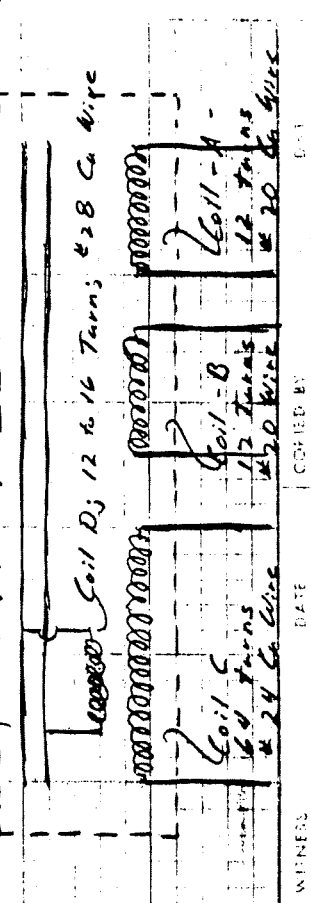
HENDERSHOT COIL

As Constructed LATE 1950's



SCHEMATIC

Capacitor core - 18 mfd capacity - electrodes
 from 80-80 p.p.f. Spongy electrode capacitor 96 in
 long - paper separator



WITNESS DATE 27 Jan 27 1963

continually while he had it. The illumination of the light connected to it apparently varied from time to time. I have a vague recollection of his telling me that Hendershot periodically would adjust the device when this happened.

"This lead to an associate and myself investigating the Hendershot device to a moderate extent. This investigation included a visit with a Mr. Aho in the high desert part of Los Angeles County. He had a Hendershot device there which he said that Hendershot had started. I forget why he said that it had once stopped operating. Apparently he had had quite a number of people trying to start it up.

"This was the critical aspect of the matter. He showed me how Hendershot would "stroke" a wire along some part of the device until a meter started responding. Then apparently Hendershot would get excited as he continued the stroking motion until the meter would show that the device was in operation or was ready to go operational. At this point Hendershot would connect up the wire he had been using to stroke with.

"Aho allowed me to sketch the both the circuit he used and a key part of the device - a coil. He also said that there was another circuit which someone said was "The" Hendershot circuit and I made a record as to it. As I recall the sketch on the coil had dimensions, wire sizes, numbers or turns, etc. Aho stated that Hendershot indicated that Aho had done a better job on winding the coil than he, Hendershot had ever done.

"From another source at the time I learned that Hendershot apparently got his idea as to

his device from an earth inductor compass such as was used in the Spirit of St. Louis airplane flown by Lindberg. I have no idea if this is true or as to the construction of such a compass.

"I should add that none of the materials I had on this have been discarded. However, I have not yet located them since closing my office."

Edward O'Brian, Patent Attorney,
Retired,
Huntington Beach, California

Thanks for your observations and drawings of Aho's instrument. The Hendershot mystery is still alive these days and your input will help those who are interested in drawing energy from the ethers. After receiving the above letter I contacted Ed and he sent along the accompanying drawings with the notation that the coil was wound on a old type of coffee can that what used in those years. He did not get exact measurements. The **HENDERSHOT MOTOR MYSTERY** book also carries many drawings including the research notes of the late Jerry Gallimore who did a bit of work on the subject.

ARGON BULBS

"Page 67 of **THE LAKHOVSKY MWO HANDBOOK** suggests the use of an argon ultra-violet bulb identified as a GE AR-1. GE no longer manufactures this bulb. Distributors have no record of it, and if you call GE itself, even they say they never heard of it.

"A similar, maybe identical, bulb is manufactured now by Sunray as the W1A. The address is Sunray Lighting, Inc., PO Box 25619, Santa Ana, CA 92799. Phone: (213) 870-8628. Price: \$9.66 including shipping."

George Trinkaus

High Voltage Press
Claremont, California

BIEFELD-BROWN EFFECT

"Just read T.B. Pawel's piece on the "Greatest Hoax Ever Sold" in the Jan-Feb 89 Journal, and was surprised to note the number of serious misrepresentations of fact which appear therein. While I do not presume to be in a position to challenge Mr. Pawel (or is it Pawlicki) on his propulsion technology theories, I am something of an expert on UFOs and I also know a good deal about the life and work of the late Thomas Townsend Brown. If Mr. Pawel's propulsion theories are as full of errors as are his claims about Brown and UFOs, I can well understand why he has problems with getting thrown out of peoples' offices. For the record, please note the following:

"(1) According to Pawel, Dr. Paul Alfred Biefeld was a Stanford professor of physics in 1924, and it was he who first noticed the phenomenon of a charged (dielectric) plate having a tendency to exhibit motion in the direction of its positive pole. Pawel then goes on to state that Dr. Biefeld Assigned his unaccredited lab assistant (Brown) to study the effect.

"All of this is entirely incorrect. In 1924, Dr. Biefeld was at Denison University in Granville, Ohio. It was Brown, then a student, who showed Biefeld the effect and asked him for an explanation of it. The term Biefeld-Brown effect was coined by Brown, not Biefeld. Brown had been studying the effect since he had discovered it during some personal experiments he had conducted while still a

high school student several years earlier.

"(2) Pawel states that "by 1927, T.T. Brown published a paper on his findings, including his design of an aircraft to implement the Biefeld-Brown effect at optimal efficiency."

"Wrong again! Brown published his first paper on the effect in 1929 (Science & Invention magazine, August, '29), and nowhere therein is there to be found any design or plan for adaptation to an aircraft.

"(3) Pawel would have us believe that the "first modern sighting of flying saucers" was made by "Flight Captain Edwards" over Mt. Rainier (Washington) in 1947.

"The Mt. Rainier event he is referring to involved Mr. Kenneth Arnold, who sighted nine flying saucers while piloting a private plane over Mt. Rainier on June 24, 1947.

"(4) Pawel implies that Brown never tried to prove or disprove the electromagnetic nature of his effect by experimenting within a Faraday cage, and complains that it would not have occurred "to a talented but otherwise untrained assistant in a physics lab that an electrostatic field could produce chemical ions" which, Pawel implies, were really the cause of the effect involved. Pawel suggests that if Brown had thought to try his experiments in vacuuo, quite different results would have been produced.

"All of this shows a profound ignorance of Brown and his work. The fact is that Brown did conduct experiments in a Faraday cage and showed conclusively that the Biefeld-Brown effect was not electromagnetic in na-

ture. He also conducted elaborate tests in France (1955-56) under the auspices of La Societe Nationale de Construction Aero-nautique Sud Ouest, wherein experiments were carried out in high vacuum! The results of these experiments proved the Biefeld-Brown effect was more rather than less pronounced in the absence of air.

"(5) Pawel attributes the absence of technical criticism of Brown's experiments in the scientific literature to "a horizontal bias" or a "blind spot" in the publishing industry.

"The fact is that a technical analysis of Brown's experiments was undertaken in 1952 by the Office of Naval Research in Pasadena, California. The resulting report was classified, as were both former and subsequent examinations of his work by the government. This fully explains the lack of published data on Brown and his work in the open literature.

"(6) Pawel's conclusion that UFOs are, in fact, secret government devices is belied by a veritable mountain of data, much of which comes from the government itself. If Pawel expects to sustain his conclusion, he's going to have to come up with something more than wild, unsupported speculation. From what I've seen of the quality of his research so far, I'm, not sure I'd trust him to give me the correct time of day.

"The above should serve to set the record straight.

"Readers who are interested in further information on Brown and his work should feel free to contact us. We have a number of publications and research folios on this subject."

William L. Moore
4219 W. Olive, #247
Burbank CA 91505

Well Bill, I certainly appreciate your corrections and we're always glad to set the record straight when we print an error of fact. I still agree with Pawel's idea that the governments of the world are covering up some UFO evidence, though I don't feel that the involved people in government have the capacity to fully understand what they are covering up. If anything the government has been compromised by whoever or whatever is generating the phenomena. My views on this concur with concepts brought forward by Trevor Constable (and others) on how the UFO phenomenon is fueled by forces above and below this dimension. The under forces definitely have control of the governing bodies of countries like the USA and the Soviet Union, and these forces are allowing the rapid deterioration of the planetary life field. Basic spiritual-scientific insight will show this, but it cannot be seen by just checking the facts of UFO sightings. UFO's are just one piece of the puzzle. BSRF has promoted the 4D UFO explanation since 1946, before UFOs became popular, and we still stand by it today.

BSRF members who want more information on T.T. Brown, including reprints of his personal notebooks, as well as a myriad of other pertinent UFO related subjects, should write to the above address for a catalog listing. I noticed on the latest listing received that the early years of George van Tassel's PROCEEDINGS from the College of Universal Wisdom are now available in reprint edi-

tions. Bill Moore is one of the most active sources of good UFO information today and also publishes a newsletter, FOCUS.

RECEIVED

* **caveat emptor**, PO Box 4533, Metuchen, NJ 08840. This magazine of the strange and unknown has reappeared after 14 years of silence. Issue #16 includes an interview with UFO joker James Moseley, an article on UFO research, a column by Geneva Hagen which covers various aspects of "New Age" movements, an article on high end audio & reviews. Subscription is \$10 for 4 quarterly issues. This one will keep you thinking.

* **EARTHRAYS - The Silent Killer** by Harald Tietze, PO Box 34, Bermagui South. 2547, N.S.W. AUSTRALIA. This is a well illustrated and thorough book on earth radiations, both beneficial and detrimental, but focusing on the geopathogenic radiations which cause distorted plant growth, auto accidents, & human disorders such as cancer and asthma. Harald provides some interesting observations, such as his view that the forest death of Europe, rightly attributed to acid rain, began on pathogenic points and paths where the plants were the weakest, and then spread to the other areas. This book gives you the information to begin dowsing for these zones in your area and also provides information on the activities of various animals and plants on these zones to aid in their detection. Contains many color photos of plants and locations to demonstrate the action of earth radiation. Once the zones are detected Harald tells how to successfully shield one's self and properties from

them. Hopefully this excellent book will be available in the U.S. soon. ISBN 0-7316-3974-X.

* **O₂XYGEN THERAPIES: A New Way of Approaching Disease** by Ed McCabe, Energy Publications, R.D. 1, Morrisville, NY 13408. \$12, paperback, ISBN 0-9620527-0-1. This is a thorough research document on the use of oxygenation to drive detrimental viruses, bacteria, etc. out of a living body. Ed has done his homework and covers the work of Father Wilhelm, Walter Grotz, and many others working with hydrogen peroxide therapies, ozone therapies, and various related methodologies. A list of sources for materials and information is included. This book has just come in and we hope to get a more thorough review in the future. We will send a free copy to someone who will do a review for this Journal. This book is also now available through BSRF.

* **BECHAMP OR PASTEUR: A Lost Chapter in the History of Biology** by E. Douglas Hume. Available from Custodian Publishing Co., PO Box 14399, Fremont CA 94539. "This book, which relates the truth about the germ theory, shows that the true genius of the 19th century was Professor Antoine A. Bechamp and not Louis Pasteur as is commonly believed. What he taught about bacteria and their functions is in total disagreement with what modern medicine teaches today. This work uncovers a lost chapter in the history of Biology. Bechamp showed that microzymes remained normal under congenial conditions but developed into bacteria and parasites when putrefying or fermenting material was present for it to consume or decompose." Several

modern researchers have noted the similarity of Royal R. Rife's conception of pleomorphic bacteria and viruses with that of Bechamp's. Researchers should write Custodian for current pricing and a catalog of other excellent health related titles.

* **URINE THERAPY - Self-healing Through Intrinsic Medicine** by Dr. John F. O'Quinn, Life Science Institute, PO Box 1057, Fort Pierce, FL 33454. This book "...reveals the suppressed Truth about how Urine Therapy promotes better health, increases energy, rejuvenates the body, and cures any illness, from a common cold to terminal cancer. The purpose of this book is to educate the masses on the use of Urine Therapy and to dispel the belief that all ailments must be treated with medicine or by a physician. The numerous case histories contained in the text prove the truth of this ancient scientific treatment which the medical profession has already rejected without every having studied it or examined it. Urine Therapy is a cost free method of treatment. It requires no diagnosis, and total recovery usually occurs within two weeks and seldom exceeds one month of treatment. We at the Life Science Institute are not offering a false hope but rather a method of treatment with a 100% success rate." Life Science Institute is a non-profit, educational foundation. Researchers should write for current catalog.

* **NEW HOPE FOR PHYSICAL AND EMOTIONAL ILLNESS: Values of Magnetic Energy and Oxygen** by William Howard Philpott, M.D. and Walter C. Rawls, Jr., from Albert Roy Davis Research Labo-

ratory, PO Box 655, Green Cove Springs, FL 32043. "This booklet is written to provide basic information in bio-magnetics as well as to guide patients undergoing a medically supervised research project in medical magnetics." Contains Case Histories, Observations of a broad spectrum of emotional & physical disorders aided by north pole magnetic energy. Covers information on the therapeutic usage of unipoled solid state magnets in physical and emotional illness. This book is also now available through BSRF.

(The above three books, BECHAMP OR PASTEUR, URINE THERAPY, and NEW HOPE, were all gifts of BSRF Member James Barressi. Thanks!)

* **NATURE EVER NEW - Essays on the Renewal of Agriculture** by George Adams, St. George Publications, PO Box 225, Spring Valley, NY 10977, (914) 623-7852. This is a compilation of essays by George Adams on agriculture. George Adams (author of PHYSICAL AND ETHERIAL SPACES) is well known to students of projective geometry, the geometry of living form, and in this book he gives some excellent insights into plant metamorphosis, Goethe's theory of color, the relationship of plant to crystal, plant chemistry, and more. Includes NATURE by Goethe, and a forward by Olive Whither (author of PROJECTIVE GEOMETRY and co-author with Adams of THE PLANT BETWEEN SUN AND EARTH). This book should be read by all who are interested in eating good food in the future. Available through BSRF, but we recommend that our readers write to St. George Publications for their complete catalog.

* **PRANA RINGS** from Azzam Drachir Co., Box 1675, Union City, CA

94587. These are copper wire spiral rings, one for each hand. "Passed down through the ages from traditional Hinduism, Prana Rings can increase the healing energy of your hands. The act of simply putting them on seems to balance the body, while simultaneously increasing the energy coming from the palms and increasing the ability to sense energy. They are an excellent tool for healers, bodyworkers and everyone interested in the use of healing energy." I have been wearing a set off and on for about a month now. They feel quite interesting, though I never wear metal on my body so that could be the cause. However copper has been used to stimulate energy flows around the body by many cultures and this is a most interesting angle on that phenomenon. Copper is also related to Venusian energies. Definitely worth researching. Send your ring size for the third finger of both right and left hands (they'll probably be different) with \$15 for a pair.

* **ORGONE BLANKETS & A MULTI WAVE OSCILLATOR** from **KLARK KENT - SUPER SCIENCE**, PO Box 392, Dayton, Ohio. Klark has sent us two of his small orgone blankets to review. We have used Klark's larger blankets over the last couple years to generate the life force from the atmosphere and his small units are made of the same quality pure 100% New Zealand wool layered with screen for ease of use. This is a quality item and the best we have seen. Klark has also sent us his latest Multi-Wave Oscillator, based on the work of Georges Lakhovsky. Klark's unit is not built according to the general plan of Lakhovsky (whose secrets we are still trying to

penetrate), but on the plan of Bob Beck's as published by BSRF for over 25 years. However, Klark has built many units of this type and has taken outside advice and greatly improved this type of unit. His is definitely the best of the type available to researchers. We received one of Mike Brown's MWO units from Borderlander Margaret Fry, and it is in the same price range as Klark's (around \$800). With Klark's you get something for your money, his is a real piece of equipment with two regular antennas, and a high-frequency radiator antenna for different modes of research. His also includes a violet ray bulb which Klark has had specially made for his units. The Mike Brown unit is of poor workmanship and design and includes only one regular antenna and one standard argon bulb. We don't recommend the MWO to anyone unless they are interested in truly researching the actions of high-frequency electricity on living systems, but if you are going to buy one your money is much better spent on a unit from Super Science. Ditto for their orgone blankets.

* **THE AURA PARADIGM: Aura Phenomena and Human Prehistory** by Michael Baran. From Authentic Marketing, 545 Wisconsin St., San Francisco, CA 94107, \$9.50pp. The author claims that this book "explores all the ramifications of an energy model based on the aura-concept. It also uses my (Baran's) unique line of inquiry of research into the legendary lost oceanic lands and great catastrophes, and in particular the idea that they were connected with ancient technology using an occult energy from deep-earth regions." Chapters include: Gravity &

Electromagnetism; Psychotronics (Baran here labors under the confused concepts attached to this term & could have picked better wording to get his concepts across); Kirlian Phenomena; Spontaneous Human Combustion; Time; & more. Looks interesting & worth investigating.

CONTACTS

This is the section where researchers may contact those of like mind or seek out sources of information. We also list various mailers received. Please be kind and considerate and send a buck or two when writing for information.

* Elbert Cook, PO Box 295, Wickes AR 71973, (501) 385-7958. Borderlander Elbert is looking for people in his area who are interested in electrical researches into Tesla's Longitudinal Electricity and Prof. Hoopers Gravity theories. He has a building for a workshop and would like interested parties to get in touch to "bounce ideas around" and get some work done.

* 7 CONTINENT DOWSERS, PO Box 192, Lansing IL 60438-0192, is holding their annual convention June 16 through 20, 1989 at Governors State University, Park Forest, Illinois. We hear that this group puts on a great show with many interesting speakers. We've been invited for several years but haven't been able to make it due to logistics. More data will be available as it comes in. Write for more info.

* Alison Davidson, c/- BSRF, Box 429 Garberville CA 95440, (707) 986-7211. Alison is working on a book about the work of Dr. Ruth Drown. Trevor Constable has donated his file on her work to BSRF along with his manuscript for the biography which he wrote about her in the

mid 1960's. His bio will act as the general outline and we are looking for further corroborating materials such as old copies of the "Journal of the Drown Radio Therapy" and the "Philosopher's Stone", both published by Ruth Drown. We know that several people who knew Dr. Drown, professionally or as patients, now receive this Journal and we are asking for any help they can give, personal recollections, old files, books, perhaps even some old equipment to add to our growing museum of radionic equipment. Ruth Drown was a truly dynamic woman and we look forward to getting this information in print. Your help is greatly appreciated.

* WESTCOAST INSTITUTE OF SACRED ECOLOGY, 2816 Ninth Street, Berkeley, CA 94710. Headed by Richard feather Anderson this group publishes a newsletter and holds classes and workshops in Geomancy - "an ancient holistic science and philosophy which integrates ecology, architecture, sacred geometry, astronomy and other natural sciences. Through its use of dowsing, geomancy blends technological and intuitive approaches to environmental design." The newsletter GEOMANCY: LIVING IN HARMONY WITH THE EARTH, consists mainly of a workshop calender and related information.

BSRF BUSINESS

GRANT

The Board of Directors of BSRF has decided to begin issuing grants. When we took over BSRF several years back we were looking for money to fund projects and get the headquarters turned into a functioning office. We found large amounts of outside dollars quite rare. This re-

sulted in the expansion, through long hours of work, of the publishing arm of BSRF to provide needed funds, as well as to carry out our aim of making research information available. Well, as the business grows so do the bills to run it (and time needed), but to start a trend at this time we are going to begin issuing small scale grants, to researchers who conform to certain standards of activity.

The first grant will be for \$500. The grant will be issued to someone to carry on experiments in order to prove or disprove novel energies which may be likened to "etheric forces", energies which would indicate invisible forces which interpenetrate our current material existence.

For example one could reproduce the orgone accumulator temperature differential experiments of Dr. Wilhelm Reich. Andrew Crosse in the 1800's grew acari (spider like insects) on volcanic pumice treated with heat, acid & electricity! The info on his experiments is in our publication **THE MORELY-MARTIN EXPERIMENTS**, which also includes several other excellent lines of research. Radionic treatment of one line of crops versus an alternative method on another line of identical plants is another idea. Bruce DePalma did a set of experiments with grass growing in a tray both on and above a 78 RPM turntable with an aluminum disc attached. He found some very interesting orientations of the plant growth due to the rotation which varied according to the thickness of the aluminum mass being rotated underneath. What could you do like this?

Grant proposals must be submitted by September 1, 1989 for this first grant and should cover the following:

- 1) Proposal of experiment: conception, equipment & time frame.
- 2) methods of documentation and reporting. We are looking for researchers who can follow standard scientific procedure with controls.
- 3) Financial breakdown of needed money to limit of \$500.

Requirements:

- 1) Money issued to be spent on experiments.
- 2) Final documentation, whether successful or not, to be submitted to BSRF for publication in the Journal of Borderland Research, or as a monograph publication if too lengthy for the Journal. The copyright for any written papers remain the property of the author.
- 3) The philosophy that pragmatism is of the essence.

Knowing what its like to have an idea to work on and not having the means to get something done gives us a good feeling setting up this structure within BSRF to further the aims of the Foundation. We are quite realistic that major experiments don't come cheap and we look forward to increasing the amount of available dollars for research as time progresses. What is important is that information on novel and beneficial forms of energy is made available to researchers with open minds as a result of these grants.

The final decision will be made upon vote of the BSRF Board of Directors. The money can be disbursed to several people if the experiments do not require the full amount. We will also publish some of the proposals.

1988 B.S.R.F., Inc. PROFIT & LOSS STATEMENT

	DEBITS	CREDITS
INCOME - BOOKS	\$	\$36215.13
- COMMISSIONS		4300.00
- DONATIONS		21363.80
- EQUIPMENT		7595.97
- VIDEOS/TAPES		5300.26
- MEMBERSHIP DUES		13761.70

- TOTAL INCOME		\$88536.86
- RETURNS & ALLOWANCES		<213.60>

NET INCOME		\$88323.26
 COST OF GOODS SOLD:		
PURCHASES - BOOKS	\$15079.31	
- EQUIPMENT	3850.62	
- R & D	4244.81	
- VIDEO	3754.23	

TOTAL PURCHASES	\$26929.07	

GROSS PROFIT		\$61394.19
EXPENSES:		
- ADVERTISING	\$1877.98	
- AMORTIZATION/DEPRECIATION	283.85	
- AUDIT & LEGAL	3161.38	
- BANK CHARGES	190.40	
- COMMISSIONS	1184.25	
- CONSULTATION/PROGRAMMING	2809.95	
- CONTRACT LABOR	2017.20	
- DUES/SUBSCRIPTIONS	1047.07	
- INSURANCE/VEHICLE	530.58	
- INSURANCE/LIABILITY	202.87	
- INTEREST	2000.00	
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- LEASING/RENT - OFFICE	9000.00	
- MAINTENANCE CONTRACTS	491.66	
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- PRINTING - JOURNAL	4788.90	
- PRINTING - OTHER	167.72	
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- PHONE	3957.61	
- WAGES/OFFICER/EMPLOYEE	14057.39	

TOTAL EXPENSES	\$63210.63	

LOSS FOR 1988 (AVERAGE \$155/MONTH)		\$ 1816.44

RESEARCH PUBLICATIONS FROM BORDERLAND

B.S.R.F., Box 429, Garberville CA 95440

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