

The Journal of Borderland Research

Vol. XLVII, No. 1

January-February 1991



Solar Magnetogram September 11, 1990

THE JOURNAL OF BORDERLAND RESEARCH (ISSN 0897-0394) is a publication of Borderland Sciences Research Foundation, Inc., P.O. Box 429, Garberville, California 95440-0429 USA. Phone: (707) 988-7211. Contents are ©1990 by BSRF, Inc. The Journal is published six issues a year (bi-monthly) with the assistance of the BSRF Associates. The Journal is issued to members of BSRF.

EDITOR

Thomas Joseph Brown

PRODUCTION ASSISTANT

Yerba Santa

CONTRIBUTING EDITORS

Alison Davidson

Peter Lindemann

Jorge Resines

THE JOURNAL OF BORDERLAND RESEARCH is a Free-Thought Scientific Forum using the imagination and intuition to probe beyond the borders of human perceptions. Donations of pertinent materials are accepted for publication in this Journal.

BORDERLAND SCIENCES RESEARCH FOUNDATION, Inc. is an organization (California non-profit) of people who take an active interest in observation of their physical, mental and spiritual environment – personally, globally, and universally. Subjects of inquiry on this Borderland between the Visible and Invisible Manifestations of Reality include: Archetypal Forms and Forces of Nature and the Use of the Imagination and Intuition to Perceive Them, Ether Physics and Etherial Forces, Light and Color, Radionics and Radiesthesia, Dowsing, Orgone Energy, Nikola Tesla & The True Wireless, Viktor Schauberger & Water Technology, Octaves of the Elements, Electricity & The Evolving Soul, Initiation Science, Hollow Earth Mysteries, Anomalies and Fortean Phenomena, Hypnosis, Photography of the Invisible, and Unidentified Flying Objects.

BORDERLAND SCIENCES RESEARCH FOUNDATION was founded by N. Meade Layne in February 1945 with the issuance of the first ROUND ROBIN, original title to The Journal of Borderland Research. The Foundation is a non-profit foundation incorporated under California law, May 21, 1951. The Board of Directors is: Thomas Joseph Brown, Director & Secretary-Treasurer, Peter A. Lindemann, Vice-President

BSRF Membership fees are:

- \$25/year worldwide, Regular Membership
- \$15/year, Senior Citizen & Student Membership
- \$50/year, Supporting Membership
- \$100/year, Sustaining Membership
- \$1000, Lifetime Membership

THE MAIN FUNCTION of BSRF is to act as an educational clearinghouse for information. Active research is being carried out and results are published in *The Journal of Borderland Research*. The majority of funding for BSRF come from the sales of research materials and membership fees.

ALL INFORMATION is presented for informational and Research purposes only. Authors are solely responsible for the opinions they present. In no way are BSRF publications, books or equipment to be taken as medical advice or instrumentation. We fully support a persons natural right to research and investigate for themselves. We support the questioning of authority. BSRF functions on the Universal Principle of the Free Flow of Information and we stand on our U.S. Constitutional Rights of Freedom of Speech and Freedom of the Press!

The Journal of Borderland Research

Volume XLVII, No. 1
January-February 1991

TABLE OF CONTENTS

- * LEAD – SATURN'S HEAVY METAL
Alison Davidson [1-5]
- * THE SYNERGY MODEL
A. A. W. Khammas [6-7]
- * AETHERIC ART
Virtual State Bureau and Archives [8-9]
- * SOLAR CYCLE 22 SO FAR
NOAA Report [9]
- * JACK DERBY - MR. FIX-IT / NEW AGE INVENTOR, Part 2
Evolution of the Violet Ray Crystal Resonator
Harry Davis [10-14]
- * THE WORKS OF DR. JOSE ALVAREZ LOPEZ
Jorge Resines [15]
- * MAGNETIC ENERGY TAUGHT ME NEW BASIC
CONCEPTS – Part III
Larry Spring [16-17]
- * ANOMALOUS ATMOSPHERIC EVENT REPORT [14-18]
- * BSRF BULLETIN BOARD
Letters, Reviews, Contacts [19-29]





LEAD - SATURN'S HEAVY METAL

Alison Davidson

"Grey-haired Saturn, silent as a stone."

Keats

Of the seven ancient planets Saturn is the outermost, circling in its lonely orbit the border of our solar system, marking the threshold between human consciousness and the infinite unknown spaces beyond. Thus Saturn ruled the planetary pantheon before the more recent discovery of Uranus, Neptune and Pluto, whose influences have brought alien mutations into the human sphere.

The mythological Saturn, whose name was given to this planet at least as far back as the 4th century B.C., was a god of ancient Italy, also identified at an early time with the Greek god Cronus who was the youngest of the Titans, the monstrous children of Sky (Uranus) and Earth (Gaea). Hated by his father, who imprisoned his children in a cave in the earth, Cronus conspired with his mother Rhea to get revenge. He castrated his father with a sickle and took his place as ruler, but he was in turn as ruthless a tyrant. Warned that his own children would one day dethrone him, he ate them at birth. Only his son Zeus escaped and after a long battle overcame Cronus and the violent chthonic powers of the Titans who were banished to the underworld.

The figure of Cronus, or Saturn, lingers on in the popular imagination, the grim reaper of souls with his scythe, the emaciated 'bone man' who is Death. While Jupiter, or Zeus, was a god of the light, Saturn came to embody all of the forces of the dark, and the heaviness of earth.

THE GREY, GLOOMY GLEAM OF LEAD

Lead, the metal of Saturn in the old occult and alchemical traditions, is dense and heavy, soft but brittle and easily broken when stretched. Although lead melts easily in the heat of a candle flame into a silvery liquid, when it hardens this shining lustre soon fades into a grey gloomy gleam. It is the metal most powerfully expressive of the earth-forces, chief of the heavy 'base' metals. There is no moisture in lead, none of the vivifying water which brings the sparkle of life. Lead, instead, embodies the hardness of death.

Pure native lead is extremely rare, most often it is found as the ore lead sulphide, otherwise called lead glance, or galenite. The greatest deposits are located in the northern hemisphere, in North America, Europe, in Spain, Germany and Belgium, Australia and Asia.

Lead sulphide is a dense sombre silver-grey mineral. Here the heaviness of lead has subdued the bright volatile sulphur and imprisoned it in primeval rock. And yet, if you hold a piece of lead in your hand it feels surprisingly soft and warm. As Rudolf Hauschka writes, "if one goes on to make a closer study of it, one comes to know another, most important side of lead which has nothing to do with heaviness: the fire that lies hidden in its depths."¹

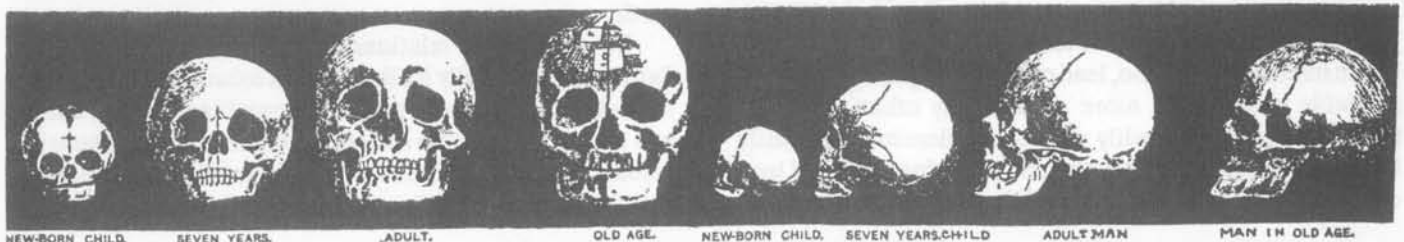
Apart from lead sulphide there are many other lead ores such as croconite and wulfenite, bright red and yellow ores which sparkle with the fire within. White lead ore brings "hidden fire to expression in the way it is shaped... a network of glittering laminae. It looks amazingly like bone structure. Thus lead unites two very strong contrasting forces: rigid heaviness and revivifying inner fire."

This is seen also in lead's close relationship with silver; it is always found with silver, and during the smelting process most of the lead vaporizes to leave a mass of liquid silver protected only by a thin film of lead.

Again lead's hidden fire is seen in lead crystal (silicate) which when cut, sparkles with the brilliance of diamonds due to the crystal's high capacity to refract and disperse light. While silver salts are light sensitive and used extensively in photography, "lead salts are not changed by light; they change it by uniting it intensely with darkness in their own substance."²

Lead has been known and used for several thousands of years; by the Egyptians and Assyrians, by the Greeks and Etruscans who used silver smelted from lead ores, and by the Chinese who made coins from lead. In ancient Italy, lead was used by the Romans for their extensive aqueducts. Lead water pipes evacuated after 2000 years were found to still be in excellent condition, although their earlier wooden pipes or stone channels were far more beneficial to the health, as 'water wizard' Viktor Schauberger observed. The emperor Titus was recorded as having some 50,000 slaves toiling for him in the Spanish lead mines.

As it withstands weathering so well, lead was used to build roofs and water tanks in the Middle Ages, and was combined with tin to make the common and very useful alloy known as pewter.



Another more esoteric use of lead is described by Mellie Uyldert in *Metal Magic*,³ in an old tradition from Holland. On New Year's eve people would melt lead and pour it into a beaker of cold water, and from the shapes it formed as it solidified they would predict the future for the coming year. Saturn, lead's planet, has long ruled over the auguries and omens of fate.

Today lead is used on an extensive scale, the shielding properties of the insoluble, stable lead compounds being especially valuable as coatings for cables, vats, tanks, boilers, etc. in the chemical industry. Lead paints protect other metals, and the malleable nature of lead has made it indispensable for the manufacture of sheeting and lead plate. It is used in batteries and accumulators, for arms and munitions (from early on as lead pellets for shotguns), and in the textile, ceramics and pesticide industries. Along with these industrial sources of vaporized lead in the atmosphere, the lead tetra-ethyl in gasoline has contributed to city pollution through car exhaust fumes, leading to 'an epidemic of occupational lead poisoning in the United States,' according to recent official studies. It's well known that ingesting minute quantities regularly over long periods of time leads to chronic lead poisoning.

In experiments inspired by Rudolf Steiner to demonstrate the effects of lead on certain formative forces, plants grown in air containing lead tetra-ethyl showed changes in the stalk cells which sprouted with hyper-active vitality at first, but died off prematurely.

THE SURPRISING WARMTH OF LEAD

Despite lead's chilly reputation it has a strong relationship to warmth, as mentioned before, melting in the heat from a candle flame at 327°C, and vaporizing at 1555°C. Wilhelm Pelikan² observes that: "Although it is solid under normal conditions, it is so strongly connected with warmth that it behaves as though it were constantly at the extreme edge of solidity," another example of lead-Saturn's role of boundary keeper.

For a metal lead is extremely soft, easily scratched with your fingernail, or drawn into a thin wire, or beaten into the thinness of paper. You can draw with lead, which is where our first lead pencils came from. Unless cooled intensely it is the least conductive among the other metals for warmth and electricity, and although it could be described as sluggish, it expands and contracts vigorously when exposed to changes in temperature.

The dullness of lead extends to its resonance: "When we touch a sounding object with lead, the sound immediately congeals, all vibrations cease." It is the last metal you would associate with musical instruments, except alloyed with bronze, perhaps, for a bell's depth of tone.

In its chemical life too, lead congeals, or precipitates into insoluble compounds, more so than any other metal, although it combines readily with other elements and easily forms alloys. This precipitating, or calcifying nature of lead can be compared to the calcium minerals which it strongly re-

sembles, and curiously enough lead ores are often found in limestone formations.

LEAD & RADIOACTIVITY

The protective shielding properties of lead mentioned earlier, are invaluable for this metal's use as a barrier against x-rays and radium in hospitals, and the extreme density of lead provides insulation against radiation in the generation of nuclear energy.

While the sphere of Saturn's orbit in the macrocosm encloses the solar system and provides Earth with a protective shield from cosmic radiation penetrating from beyond, lead on earth helps to protect us from the poisonous rays of nuclear death temples and other sources of radiation that man has let loose upon the planet.

Lead itself is very closely connected with the radioactive processes in nature. As Saturn has come to be associated with Time and Death, so lead is connected with the decay and decomposition of matter which consists of a process of transmutation, setting free the energy trapped in matter in the form of radiation. In the transition of the highly dense and radioactive uranium and thorium towards disintegration, lead is found with an exceptionally high number of radioactive isotopes. In the last stage of radioactive decay, non-radioactive lead is "the final substance which can undergo no further changes." The most lead is contained in the oldest radioactive ores - it represents the end of a complete cycle of life and transformation, "the ultimate substance of age and death."

THE PATTERNS OF SATURN ECHOED IN LEAD

As the great cycles of Nature turn and return, focussing planetary energies on the earth and bringing life and growth with the Sun's power at the summer solstice, Saturn's season is mid-winter, in the place of darkness and death. Winter is also lead's season, as the experiments of scientist Lilly Kolisko showed, the time of greatest contraction, "when the forces of vegetation withdraw, then crystallization is at its culminating point. Even the water is overpowered by its strength and turns into solid ice."⁴

Solutions of lead nitrate produced the greatest weight of crystallization in the month of February, as compared with their minimum weight in the summer month of June. In many respects lead was shown to be opposite to the forces of Jupiter and its metal tin. While lead contracts, precipitates and congeals, it is the nature of tin-Jupiter to expand. While tin is associated with light and is most active in the summer and has a close affinity for light's mineral silica, lead is the metal of darkness, and is allied with calcium and the forces of the earth.

To explore the relationship long said to exist between Saturn and lead, Lilly Kolisko used a solution of lead nitrate to study the patterns formed as it crystallized before, during and after a conjunction of Saturn with the Moon. There is a certain period of time lead takes to crystallize normally, but at the exact time of the Saturn-Moon conjunction Lilly found

this crystallization to be nearly always delayed, and sometimes the solution failed to crystallize at all. Meanwhile the copper and iron salts remained completely unaffected. "The effects of a conjunction between saturn and the moon are only to be found in the solution containing lead."

Following up on the results of Lilly, another scientist named Theodor Schwenk performed further crystallization experiments to study the effect of certain planetary aspects on their corresponding metals. For several days before, during and after a conjunction of Saturn with Mars, he studied the patterns made by a solution of iron sulphate, lead nitrate and silver nitrate. In the pictures formed by the crystallization of lead, as Lilly had said, there are no soft and delicate forms seen, for example, in the pictures of silver, rather they are heavy and hard. "Like the wrinkles of old age," she said, "...the formation looks like that of a rock which has undergone the process of weathering. Somehow a process of *ageing* is expressed. Lead adds 'weight' and something that gives an impression of age."

However, on the day of the Saturn-Mars conjunction Schwenk reported that suddenly everything changed and a completely unusual picture appeared. He wrote: "The broad, heavy 'lead formations' become pointed and narrow and are reduced in number; a strong blackening of the background occurs." By the following day, the pictures had returned to their normal appearance.

SATURN'S ROLE IN THE HUMAN ORGANISM

The heaviness apparent in the pictures of lead is the nature of Saturn wherever it is found; in the body, Saturn-lead is concerned with the processes of hardening and mineralisation. In a young child the bones are still growing and forming from the soft cartilage. It is Saturn which hardens and calcifies, or in other words, sculpts them into their permanent adult form. Again we see the lead-calcium connection, as the bones are made predominantly of calcium, even the form of bones, like the hard trunk of a tree, are composed of concentric rings resembling the rings of Saturn. As we grow older the normal calcifying processes increase, the bones become more brittle, and "physical death takes place because we can no longer overcome the accumulation of hardening processes."

In their book *Saturn & The Human Organism*, Lilly and Eugen Kolisko observe: "What works in the hardest substance, in the mineral, the solid, the skeleton, in the earthly,

connects Man with the earth, but in such a way that he must strive continuously to overcome this force. Death takes Man *physically back* to the earth; spiritually it takes Man *away from the earth.*" After death only the hard mineral skeleton remains; a dead man can no longer stand up.

The hardest and boniest part of the body is the skull - consider, for example, the extremely hard and thick skull of a wild pig, or a rhinoceros. While the fontanelle, the soft part of a baby's head, slowly closes during its first or second year, so the child learns to stand up and balance itself between the forces of gravity and the less often considered forces of levity. Detailed physiological studies of the Koliskos linked the child's ability to stand upright with the faculty of memory, that when the bone system is completed early in life, "forces are set free which are connected strongly with the human character, with the moral, spiritual, individual capacities of the human being."

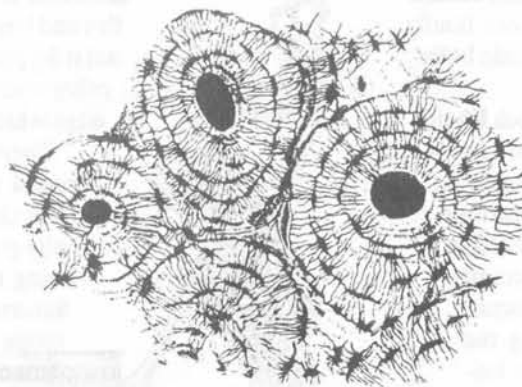
In the organism even small amounts of lead are extremely toxic, destroying the digestive system and advancing to relentlessly destroy the nervous system and the brain. The bones are damaged and the skin becomes the grey of lead, the victims grow old before their time, become emaciated, and are quickly destroyed. The mineral process becomes too powerful, overwhelming the delicate balance between the forces of life which are carried by the warmth of blood, and the hardening of material substance.

Whenever the influence of Saturn is too strong there is abnormal hardening; lead is found in kidney and bladder stones, in hardening arteries. It causes contraction and cramping, not only physical, as

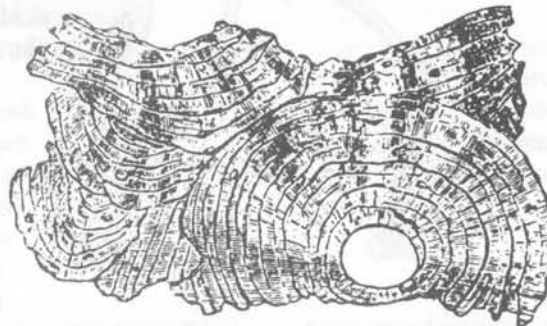
"soul cramps cause fear and anguish, the leaden weight of Saturn." There is a drying and coldness of body and spirit. Life needs warmth, the warmth of blood. In old age the body becomes more fragile and a cooling, a contraction, sets in.

Homeopathically prepared lead, *plumbum metallicum*, in high dilution combats this degeneration, as "the effects of material lead are changed into the sphere of spiritual influence of lead. That is the force by which Man keeps the hardening processes continuously under his control."

As well as being a great remedy for sclerotic conditions, homeopathic lead is also used for alcohol addictions, the cravings for the distilled spirits of the earth. It's interesting to note the age-old custom of sealing wine bottles with lead; apart from practical purposes, perhaps this also serves to



Section of bone after acid treatment.



Magnified cross-section of bone tissue.

keep the spirit of the wine sealed in? It makes one curious about the effect of lead or lead-lined coffins that were common in Europe at least up until this century.

The organ associated with Saturn is the spleen where the red corpuscles are destroyed and built up again, as in the marrow of the bones where new blood is formed. So even in the depths of the bones, the most ancient symbol of Saturn and death, there is new life developing. The spleen also shares Saturn's great power of contraction and shrinks considerably in old age.

Two other antidotes to lead's toxic effects are sulphur and silver, its natural companions in the earth. Sulphur stimulates the heaviness of lead and people often go to sulphur spas or hot springs which bring relief to rheumatics and other saturnine afflictions.

The plants associated with Saturn-lead according to herbal tradition, are the *solanaceae* family including the tomato, potato and the toxic belladonna, henbane and tobacco.

The cell salt calcium phosphate, which is said to be ruled by Saturn's zodiacal sign of Capricorn, is a salt which forms the bones and the skeletal part of every cell. This is the limestone building force of nature, a process reflected in astrology where Capricorn rules over occupations dealing with building and architecture and structure on every level, including the social structure of civilization, and the bureaucracy, or 'bones,' of government.

THE OCCULT SATURN

Saturn brings us the foreknowledge of our own death, from the moment we are born.

In the old alchemy lead, Saturn's earthly counterpart, was the 'base' metal, the raw material of the work and the first or 'black' stage of the alchemical operation, often represented by a raven, a skull, or a grave. In the symbol for Saturn-lead the lunar crescent is beneath the cross of the earth, representing the soul suffocated and darkened by the earth, or 'the chaotic immersion of consciousness in the body.'

Here is the point where one turns within to find the spirit, by withdrawing the senses and 'dying to the outer world'. But before the gold of the inner sun rises to illumine a new mode of consciousness, this turning away from the outside world is experienced as a time of intense darkness and aridity. In all of the Mysteries of Death, this is where the initiate is identified with, and becomes, the sacrificed god.

Osiris, the black god, was the first deity of the Egyptians to die and be resurrected, demonstrating again Saturn-lead's contrasting properties of rigidity and heaviness, and its re-vivifying inner fire. It was Isis, his sister and wife, who restored him to life. The agent of his death was Set, son of the primordial goddess, from which the name Saturn is derived -

the bones are his symbol. Crossed bones are also the symbol of the Voodoo loa Baron Samedi - Master of the Crossroads - who stands at the junction of life and death.

When despair and loneliness rise to choke the joy and love from life, you may be sure that Saturn's shadow is passing by, black as the messenger crows of Cronus. People with Saturn working strongly in their horoscopes tend to be serious, pragmatic, sometimes cold and gloomy, sometimes downright morbid. But they often live to be very old, even despite themselves, and like the mountain goat they can scale the heights through their tenacity, self-discipline and endurance. They can also reveal an unexpected sense of humour.

Saturn brings the tests, responsibilities and ordeals of material life which none of us born to earth can avoid, and was regarded as the great malefic by medieval astrologers. But just as lead has a hidden fire and beauty, so Saturn has another more universal role, providing a bridge to the outer planets and other states of being, if we use the occult knowledge which can only be found in its darkness.

There is another side to Saturn, if we go back beyond its 'heavy' connotations, firstly to discover that both Saturn and Cronus were originally gods of agriculture, with the name *saturn* being derived from the latin *serere*, 'to sow'. Saturn's wife Ops was an earth goddess of crops and the harvest, and the crows mentioned above were also associated with ancient rituals where the barley-king was sacrificed every year, or 'reaped' by the golden sickle of the Goddess, his blood fertilizing the fields for the new year.

The great orgiastic Roman festival of Saturnalia, dedicated to Saturn and Ops, began on December 19 and lasted for several days, celebrating both the winter solstice and the memory of the golden reign of Cronus. All social customs were reversed, slaves were waited on by their masters, and the people exchanged

candles and dolls in imitation of the original human sacrifices to the barley-god.

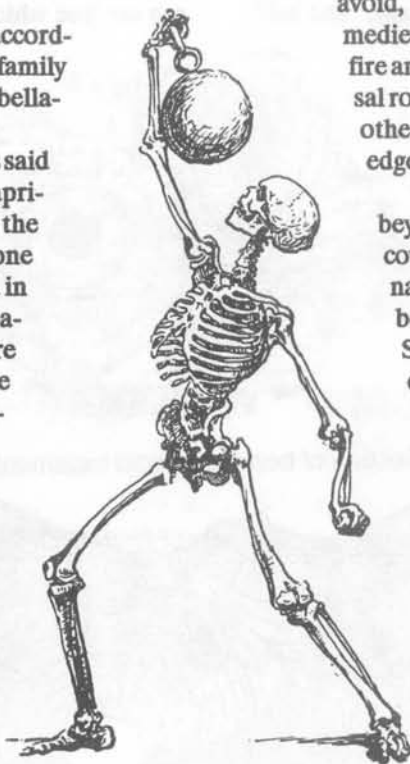
The reign of Cronus was said to have been a golden age, when humans lived like gods, free from work or sorrow or old age, a time when the earth flowered like a garden. When the ancient Titans were banished, there is a version which tells of Cronus going not to the underworld, but to the Islands of the Blest in the northern seas, where he sleeps heavily guarded, but will return.

GODDESS OF SATURN

"I am Life and the giver of Life, yet therefore is the knowledge of me the knowledge of death."

Liber AL vel Legis, Aleister Crowley

To go back even further, before the 'decadent patriarchalism' of Cronus and the Olympian king-gods took shape



from an even earlier mythology, the sickle was originally the symbol of the ancient star goddess of the Great Bear constellation.

In the qabalistic tradition the female nature of Saturn is clearly expressed in the sphere called Binah on the Tree of Life, described as 'the female potency of the universe' and 'the primordial formative influence...behind and beyond manifesting substance,' just as Saturn was called 'the god of the most ancient form of matter.'

Her symbols are the womb and the cup, and she is both the Mother of all life 'who binds force into the discipline of form', and the bringer of death. Through her, life descends into all levels of manifestation. It was once the custom for brides to wear black for their wedding ceremonies, and in Eastern European countries to wear the wedding ring on Saturn's middle finger, to connect with the female potency of this sphere.

The Hindu goddess Kali, black as space, who wears a garland of skulls and carries a sword, expresses the nature of this primordial power, the dual nature of Saturn which alternately creates and destroys. In all of the old religions which were based on the cycles of nature, death was celebrated equally with life - in order to live, the barley seed must die.

When worship of the primordial goddess was forcibly suppressed by the new male-oriented religions, the understanding of death became instead man's greatest fear and taboo. Material and temporal power, the lowest expressions

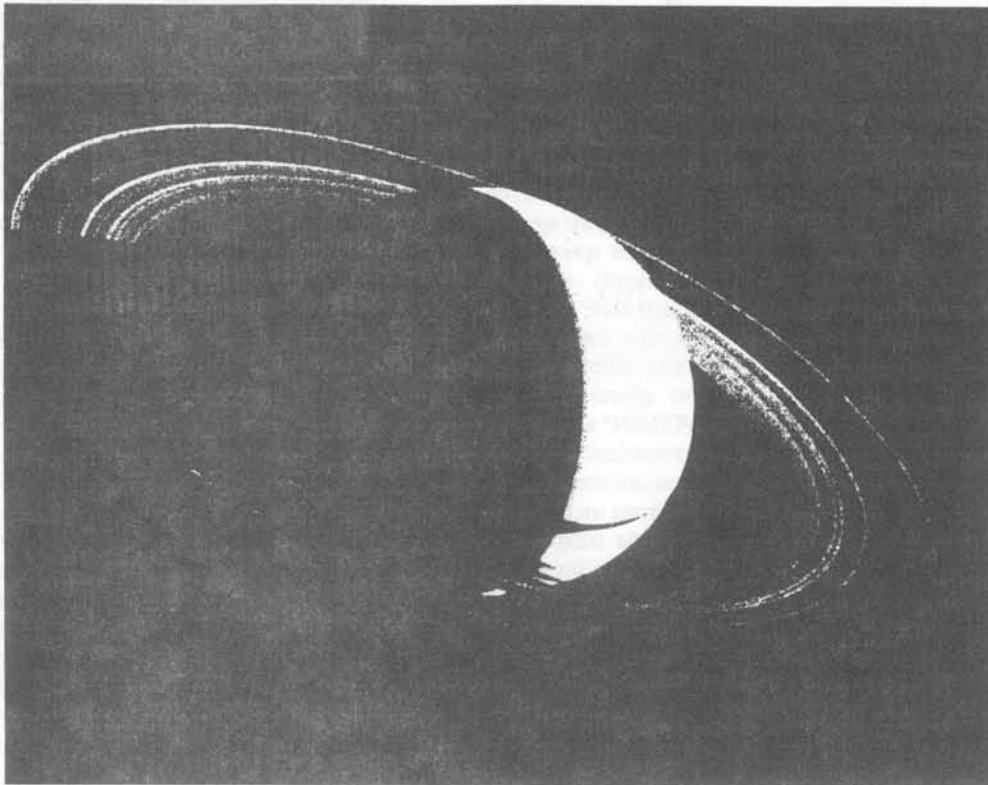
of Saturn, were grasped as if to compensate for the loss of the spirit of the goddess.

The grey-faced rulers who stalk the cold bureaucratic halls of church and state today are the old barley-kings who refuse to die. It is no coincidence that President Bush is a member of the elite and highly symbolic Skull and Bones Club.

But only pollution, decay and destruction mark the end of man's attempt to dominate nature, and Saturn moves in, patiently, inexorably, to drive this lesson home.

REFERENCES

1. *The Nature of Substance*, Rudolf Hauschka. Rudolf Steiner Press, London 1983.
2. *The Secrets of Metals*, Wilhelm Pelikan. Anthroposophic Press, NY 1973
3. *Metal Magic*, Mellie Uylert. Turnstone Press Ltd., England 1980.
4. *Agriculture of Tomorrow*, L & E Kolisko. Kolisko Archive Publications, Bournemouth, England 1978.
5. *Spirit in Matter*, L. Kolisko. Kolisko Archive, Rudge Cottage, Edge, Stroud, England 1948.
6. *Lead and the Human Organism*, L & E Kolisko. Kolisko Archive Publications, Bournemouth, England 1980
7. *Alchemy*, Titus Burckhardt. Element Books, U.K. 1986.
8. *The Mystical Qabalah*, Dion Fortune. Samuel Weiser, Inc., N.Y. 1984.
- Nightside of Eden*, Kenneth Grant. Frederick Muller Ltd., London 1977.
- Gray's Anatomy*, Henry Gray. Running Press, Philadelphia, PA 1974.
- Homeopathic Materia Medica*, William Boericke. Jain Publishers, New Delhi, 110055 India.
- Astrology and Biochemistry*, Vanda Sawtell. BSRF Publications.
- The Encyclopaedia Britannica*, New York, 1911.
- The White Goddess*, Robert Graves. Farrar, Stroud & Giroux, N.Y. 1984.



THE SYNERGY MODEL

A. A. W. Khammas, 1990

If on the earth's surface a body is moved from one point to another, gravitation has only an indirect effect through friction on this body so long as it is on the same level of potential energy. However, if one wants to move the body's level in a direction opposite to gravitational influence (=upward transport), a considerable expenditure of energy would be required. The expended energy is not lost, but remains stored in the body in form of increased potential energy. The actual percentage of total energy stored on the new potential energy level varies directly with the degree of efficiency of the transport system used. The quantity of possible energy reclamation (Example: Pump-fed power station) also depends on the degree of efficiency of the system converting to stored potential energy into other forms of energy and exergy (e.g. falling water into rotational energy) and then into electrical energy, the most commonly known exergy form.

Calm water has a very high surface tension. Gravitation affects all molecules equally strongly, thus permitting the surface to level itself in an ideal manner. Seen in a planetary context, the sea level surface is considered to be the "zero level" of all altitude or depth measurement. The upward transport of water onto a higher level requires a certain expenditure of energy. We contend that this expenditure of energy is especially high in those cases where in an "upward transport" a partial amount of water must be detached from the whole system. In this case, the cohesion counteracts the upward transport and thus increases the necessary energy requirement to a considerable extent.

This paper deals with a method of transport which eliminates the necessity for breaking the cohesive forces in water. This "transport system" is based on a topological deformation of water, resulting from rotation but without application of pressure, in which the cohesive forces are not affected during upward transport.

A vital element of this transport system is basically not new; it is known as the Newtonian Bucket Experiment. However, in his time Newton had not paid any attention to the possible practical use of spirally rising water. He mainly considered his experiment to be a proof of "Absolute rotation". Since then – and to this day – it seems that no one has dealt any more intensively with this ex-

periment, with the possible exception of Berkeley, who dismissed Newton's Thesis, asserting the "Bucket Experiment" to be a proof of the "Relativity of Movement". No one seemed to be interested either in the technical or the practical aspects.

The physical concept: Continuously acting centrifugal, centripetal and shearing forces result in a helical movement opposite to the gravitational direction. Although continuous bucket rotation releases all of these forces, it releases no strong pressure or suction forces, thus considerably minimizing the losses due to friction.

Determining the necessary number of revolutions does not present a problem. The rotating body's minimum number of revolutions depends exclusively on the ratio of height to diameter. Aesthetical calculations result in a single-digit number of revolutions per second. Therefore, it is easy to calculate the optimal number of revolutions adequate to the material, to the type of storage as well as to other parameters. These low number of revolutions are independent of the actual dimensions of the rotating body.

The water-formed paraboloid in the rotating container steepens with the increase in speed, its base dropping lower and lower as water is displaced sideways and upwards. The aforementioned low number of revolutions are enough to deform the water topologically in such a way that the inside surface of the produced hollow space approaches an upright angle of 90° to the calm surface.

The entire system calls to mind those designs for space stations which generate a (centrifugal) artificial gravitational force through their artificially created axial rotation; thus ensuring an almost normal life aboard. However, the bucket experiment's most interesting aspect is its application "WITHIN" a gravitational field, upon which the rotational effect is superimposed. Topological deformation causes the water to literally "creep up the walls" inside the rotation field. As soon as the container's rim is reached, the unrestrained centrifugal force thrusts the water over the rim. If this upper rim were to be equipped with a (stationary) collecting basin, a certain quantity of water of a higher potential energy level would be obtained.

This effect, of course, could only be achieved by first expending a certain amount of energy into the rotation procedure.

Let us proceed on the assumption that the water quantity in the bucket is limited and that the bucket itself is at rest. Under these conditions, a relatively large amount of energy would be required in order to lift up the water in the described way. It would be a completely different case, however, if the established rotation (after expenditure of start and acceleration energy) is only to be kept constant and if there is a constant supply of water at the lower end of the bucket. The energy expenditure necessary to maintain the flow equilibrium is substantially lower than the amount required for start and acceleration, while the total-mass-stabilizing flow equilibrium is materially assured by the "Effect of communicating tubes". If one part of the rotation container is situated beneath the level of feed water, then the water – with a corresponding tube connection and possible axial infeed at the lower end of the rotating cylinder – will flow into the container without any additional application of energy.

A further decrease in energy expenditure in the maintenance of rotation can be achieved by reducing the number of revolutions of the cylinder to a subcritical speed. This speed is reached as soon as the water is no longer thrust over the upper rim of the rotating container, but moves only within the rotating container as a standing wall of water. Due to the previously integrated continuous water supply at the bottom end of the rotating body even the most minor increase in speed would reestablish the interrupted flow equilibrium such that each drop that is thrust over the top of the rim would be replaced simultaneously at the bottom.

Now, another closer look at the subcritical speed. With this number of revolutions applied, an overflow at the upper rim does not yet occur – unless we were to artificially generate a certain pressure on the water, an incompressible medium. This pressure would immediately thrust the water over the upper rim because it would present the water with its only alternative exit.

First, we assume that the water feed at the lower end is (still) closed and that the rotating body is turning with subcritical speed. Since the water quantity is limited in this case, the base of the created rotation paraboloid sinks to a level beneath the still water surface which is identical with the feed water level. With the water infeed open, however, any drop of the falling water level

results in an immediate rise in infeed water pressure with its assumed constant level. Since, according to physical laws, this pressure acts upon the entire water quantity within the rotating cylinder, this pressure could represent exactly that kind of energy which is required to thrust the water over the upper rim of the container even at a subcritical number of revolutions.

With the described method we achieve a constant upward flow, opposite to the pull of gravitation, which results in a constant flow equilibrium when a constant number of revolutions is applied. After providing for acceleration, our direct energy expenditure is limited to the compensation of various friction losses, while the upward transport itself takes place through the permanently renewed pressure of the feeding water reservoir (sea, lake, etc.).

The hydrological cycle is closed by the subsequent use of increased potential energy by means of water turbines. With this procedure one can reconvert the gravitation effect – now again uninfluenced by rotation-based centrifugal and centripetal forces – into utilizable electric current.

It cannot be left unmentioned that doubts have been raised from various sides concerning the practicability of this system. This machine itself prohibits an uncritical application of the Thermodynamic Principles. In the meantime, however, positive remarks have been made which refer to recent discoveries in physics and chemistry. Indeed, the Belgian scientist Prigogine was recently awarded the Nobel prize for just this particular theory, according to which the application of the Thermodynamic Principles is only allowable in closed systems. If we reflect on the conditions established by Prigogine for an opposite, open system, we ascertain, that these conditions are completely met by the transport system described here: An uninterrupted flow of MATTER and ENERGY through the system.

What represents the uninterrupted supply of chemically-bound energy and/or light in a non-entropic form of human, animal or plant nature, is carried out in this very system by the water itself: it transports its immanent and constantly renewed heat energy, the sources of which are mainly solar radiation and geothermal energy – in addition to the process heat of all biological and mechanical cycles found in the upper layers of the world's

oceans.

Certain similarities exist between the above described transport system and the universally feared tornados. Due to their exceptionally high revolution speeds, these tornados do represent an extreme form of general turbulence, but they also show very clearly that heat energy itself can transform itself directly into mechanical energy within a cyclonic field, even if only in low percentages. Quantitatively considered, however, they add up to enormous amounts. Several authors with insights into the latest research in the field speak of a synergistic self-organization of matter, which in this practical case, leads to the "self-energization" of the cyclonic structure.

It is pointed out that even minimal temperature differences are sufficient to lift up water molecules to astonishing heights. Indeed, the entire population living on the surface of the planet lives from this low-temperature transport. Evaporation lifts millions of tons of water up hourly, without any pressure or suction forces in a technical sense – and that to heights of several thousand meters!

The successful combination of two old and well-known principles with recent discoveries in physics opens up the possibility of water transport (from the ZERO water level upward), due to the physical characteristics of a cyclonic field, requiring extraordinarily low operating energies. Based on the assumption that a self-energization takes place, these must act – contrary to the first impression – in a decelerating not an accelerating manner.

It remains to be seen which actual figures future pilot plants will achieve. Only then will the efficiency of the suggested rotation transport system be concretely verified. However, experiments with relatively small models have already indicated that the installation of centrifugal mass or disk flywheel on the rotating cylinder would pay off not only as regards to stability and temporary energy storage. The heavier the empty rotating container, the greater the water storage in the slow "subcritical speed range", thus also increasing the water quantity thrust over the upper rim due to the pressure of feed water. Due to the additional empty mass, the start-energy investment necessarily increases, but this is more than compensated by the higher equilibrium forces. The necessary energy re-

quired for further operation is hardly important because of its low percentage rate.

Apart from the above described cohesion, adhesion should also be mentioned. Without this adhesion, the water would not move at all upon the start of the rotation (e.g. which is the case with HELIUM II near absolute zero). In the aforementioned system, inside friction is a basic precondition for the functioning of the system. As proximity to the rotation center increases, the shearing forces progressively decrease, thus clearly indicating the difference between a centrifugal rotation acceleration (mixer, pumps etc.) and a centripetal acceleration "from the circumference" which we have named "implosive".

Comparing the above system with a conventional centrifugal pump or the possible mathematical or physical conclusions deriving from such a pump, leaves the impression that one intends to explain the flight behavior of a jet with the knowledge gained from ballooning.

Gravitation, in our eyes, should no longer be considered negatively as a "foe to be overcome". On the contrary, no upward transport would probably be possible without gravitation and certainly no subsequent energy transformation or energy generation would take place.

Even the actual meaning of the word "overcome" refers to the suggested system – if one has a little imagination.

As a theoretical basis for a future mathematical analysis we have formulated the following: NON-ENTROPIC SYSTEMS ARE ANTI-GRAVITATIONAL.

The abovementioned system offers numerous possible applications. The system could be applied either as a transport component in pump-fed storage stations, for quick filling of sluices or for larger irrigation projects; in connection with other technologies, it could be applied in the field of sea-water desalinization and sewage treatments or in other projects. The most important aspect, however, will be the system's utilization in the field of energy exploitation from various renewable "environmental energies". An important aspect in an economic, technical and ecological context.

A.A.W. Khammas, 1990
Lutzowstr. 81
D 1000 Berlin 30
0049/30/261 81 86



AETHERIC ART

VIRTUAL STATE BUREAU AND ARCHIVES

Artist Duncan Laurie in conjunction with Virtual State Bureau and Archives, 29-14 40th Avenue, Long Island City, N.Y. 11101 are proposing to mount an exhibition of artworks, inventions and musical performances based around the theme of conjugate space or as it was formally called, the Aether. We are suggesting by this exhibition that an important medium for the creation of works of art has been overlooked by the advent of Modernism and deserves reappraisal in light of some unusual alternative technologies that are quietly reappearing. These ideas make reference to areas of research generally abandoned by the end of the 19th century but which can be traced to the dawn of consciousness.

For the sake of this letter, we will title these ideas and their artifacts "Vitalistic" in reference to early usage of the term in describing the properties of electricity and magnetism. However, we feel the term currently applies to any means of working within and through various forms of mass free "life" energy, occasionally acknowledged by inertial scientists conceptually but rarely studied practically. These ideas have been ignored or ridiculed by modernism and science, in spite of the fact that shamanistic societies have continued to apply their principles in an artistic/technological fashion for millennia. Usages include healing, weather modification, crop fertilization and personal or societal transformation, all issues addressed by Aetheric instrumentation.

What is not widely known, but what this exhibition seeks to portray are some current applications of vitalistic science to art. Specifically addressed are the influence these ideas and devices have had upon a select group of artists in New York. Another objective would be to provide interested persons with the source material; publications, individuals, companies, organizations both national and international that routinely distribute or reference this type of data in their day to day agendas. The intended outcome of this exhibition would be to locate other artists working in this genre, to establish a platform for discussion of Aether based art, past and future and above all, to demonstrate the viability and vitality of these concepts and techniques in art to the public.

An important political consideration that an exhibition of this nature must address is the scant attention paid to creativity

and inventiveness that lie outside institutional control, academic sponsorship or corporate entrepreneurialism. Virtual State Bureau and Archives is prepared, in this regard, to present valuable information from its research into other fields that goes beyond the artistic objectives of the exhibition. This information would include responsible projects by highly gifted individuals currently addressing essential world problems of food, energy, medicine and consciousness.

Due to the controversial nature of the material and ideas proposed in this format, we have deemed it necessary to carefully weigh and consider our approach to the public presentation of this information. This letter has been written for the purpose of determining whom in the art community among curators, dealers and artist coalitions etc, would be interested in an exhibition of this kind and under what conditions. In addition, we seek to gather a mailing list of those persons wishing to view art of this kind once the exhibition has been assembled. Please direct all inquiries by letter or Fax to: Duncan Laurie, Virtual State Bureau and Archives, 29-14 40th Ave., L.I.C., N.Y. 11101. Fax (718) 361-0651 or phone (718) 482-7407.

SPECIFICS

It is only natural, in light of the forgoing statements, to want to know what artists, what inventions, what scientists and to what uses these instruments will be put. Since it is the objective of the exhibition to address these questions, only the briefest outline will be given here, subject to expansion and revision at any future date.

A partial list of considerations that the presented objects and performances will address are as follows:

- * the significance of how proportions, as information, affect energy displaced within the influence of their geometry.
- * what materials (including light) in what relationships to one another will effect mass free, vitalistic energy.
- * how different shapes in different materials act as tuners, antennas, capacitors, transducers etc., of mass free energy.
- * how subjectively selective types of subtle energy have been differentiated, discussed and defined.
- * various methods employed by the exhib-

iting artists used to excite subtle energy fields.

- * how subtle fields are linked to earth energy sources and to electricity and magnetism.
- * how minute subtle energy transactions can induce proportionately larger biological effects.
- * explore the relationship that exists between the subtle energy fields and the eidetic capacity of the mind.
- * aesthetic question - design of non-electromagnetic devices, like those of antiquity versus the newer electrical instruments.

Since every issue in this field has the potential to evoke questions about every other issue in this area, creating a "seamless web" of mystery, denial and paradox, we feel the ideas themselves are best served by extrapolations without explanation, thus lending themselves to the domain of art. Any traditional scientific validation or defense of these postulates is the concern of the observer, not ours. We offer the information freely as it comes, and wherever source material and scientific proofs exist, footnoting will be provided.

Inventors, engineers, scientists and lay geniuses sourced for the exhibition, living and deceased, partially listed are: Dr. Albert A. Abrams, Ruth B. Drown, Galen Hieronymous, George Lakhovsky, Wilhelm Reich, Trevor James Constable, T. Henry Moray, Nicola Tesla, Viktor Shaugerger, David Tansley, DC, Eric P. Dollard, James Murray, Preston Nichols, Michael Bradford, John Michell, Michael C. Heleus.

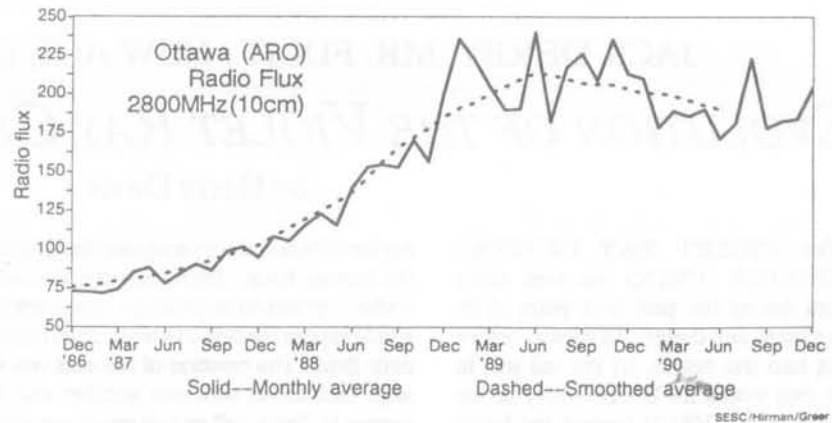
ARTISTS

Duncan Laurie, partner Degnan/Laurie Inc. (architectural glass) offers for exhibition radionically inspired drawings and circuit board designs, called Cyber-Glyphs™, conjugate light and sound sculpture utilizing radionic and psychotronic technology, featuring a modified Bradford "Genesis" device for the performances.

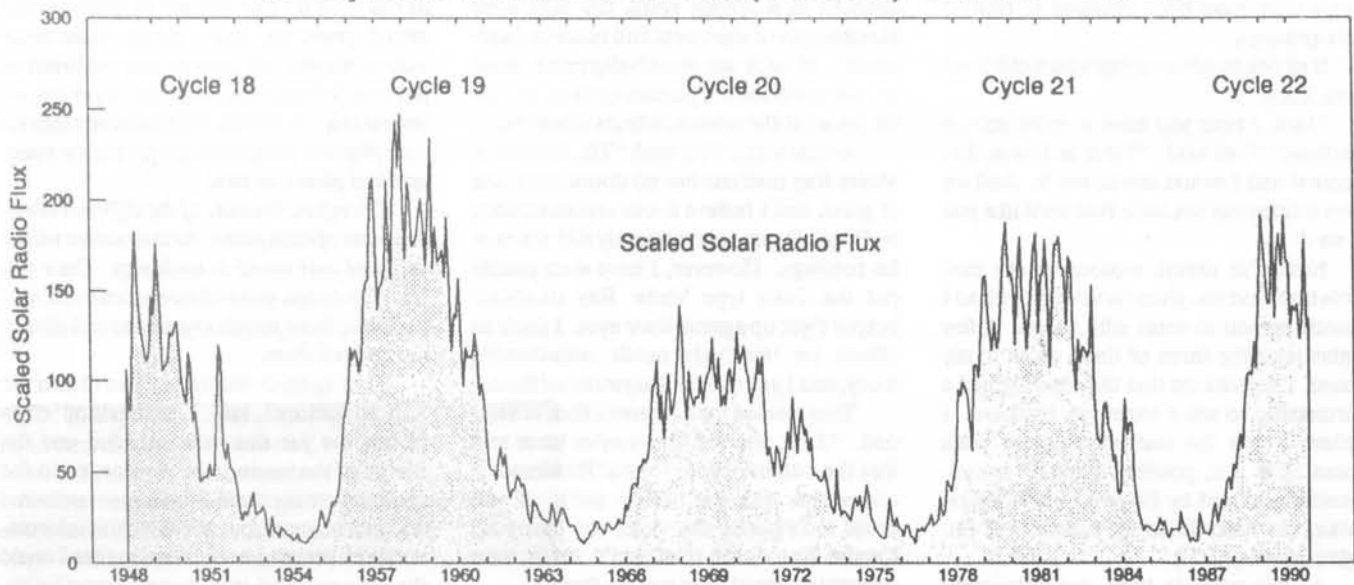
Collaborating on the performance side of this exhibition as well as on the conjugate light sculptures is composer Gerry Vassilatos. Mr. Vassilatos has been designing telurgic radionic musical instruments since 1984 which he utilizes in his operatic compositions. He has published numerous articles and produced several video documentaries on Aetheric technology viewed sporadically

SOLAR CYCLE 22 So FAR...

From:
 Preliminary Report and Forecast of
 Solar Geophysical Data [1 JAN 1991]
 National Oceanic and Atmospheric
 Administration, Space Environment
 Services Center
 325 Broadway
 Boulder, Colorado 80303



Monthly Mean 2800 MHz Solar Flux (Observed) Jan 1948 – Oct 1990



AETHERIC ART continued...

on N.Y.C. cable television.

Daffi Nathanson, director-artist-founder-member of an urban tribe called the Dragon Kings (since 1972) and Empire Studios (a video film Co. since 1985) has recently been working together with Virtual State to develop some unique video journeys which capture the psychotronic experience artistically, while offering much needed practical information about the borderland sciences.

Poet, painter and author, Aymon de Sales' artistic influence on the project has been evident since 1986 when he became a founding member of Virtual State. He will contribute to the visual as well as the performance aspects of the exhibition.

John Degnan is a partner in the architectural glass firm of Degnan/Laurie Inc., operating as Duncan Laurie Studios and a partner of Virtual State since 1989. He will be

collaborating on the performance and in the design of the conjugate light sculptures.

Alvinia Bridges of Alvinia Bridges Inc., is the publicist for the event. She is best known in the music world for her work with the Rolling Stones, Roberta Flack and Bill Graham. Any publicity related questions can be directed to her attention: 200 West 58th St., Apt 8E, New York, N.Y. 10019. (212) 245-5910.

Many questions remain unanswered, but one thing is certain: the artists mentioned here and Virtual State Bureau and Archives of 29-14 40th Ave., L.L.C., N.Y., incorporated in 1986, have absolutely nothing to do with the computer based bio-feedback technology currently being hyped out of California and North Carolina, used in the aero-space industry and for entertainment purposes. Nor were we aware of their work at the time we incorporated and selected the name of our firm.

While this exhibition lays a certain em-

phasis on recent electronic exponents of traditional sacred technology, the artists in this exhibition see these devices as only a first step towards discovering even simpler, more organic analogues closer to art. Fundamental to this process is a reappraisal of the basic tenets of electricity and magnetism, especially their original relationship to the Aether. Today scientific dogmatism has made such research nearly impossible, leaving us with a predominately mechanistic approach to life. For this reason we wish to address these discoveries to a hopefully more open minded forum of the arts, where traditionally the technical, the mysterious and the beautiful has fused with extraordinary repercussions.

We recommend that any serious, potential sponsor contact us at the above address and make an appointment to meet with one of the principals, view the art, inspect the technology and discuss the situation, one step at a time.

EVOLUTION OF THE VIOLET RAY CRYSTAL RESONATOR

by Harry Davis

The VIOLET RAY CRYSTAL RESONATOR (VRCR) has seen many changes during the past four years of its development and design. However, before getting into the details, let me tell you in Jack's own words his favorite story in the evolution of the VRCR (except for Jack's name, the names of other participants in Jack's story have been changed to protect their privacy):

It all began one evening with a call from Tom Riley.

"Jack, I hear you have a really unique machine," Tom said. "George Evans, Jim Bennett and I would like to see it. And we have a violet ray machine that we'd like you to see."

Now, I'm always anxious to see new tools that God has given us to work with so I quickly agreed to meet with them. A few nights later the three of them came to my house. They told me that they had formed a partnership to sell a violet ray machine: I believe it was the one invented by Tesla about 1873 and, possibly, the type recommended and sold by Edgar Cayce's organization, the Association for Research & Enlightenment (ARE).

At this point in time, my instrument could not generate the violet ray and I called it the Crystal Resonator (CR). The CR could transmit sound energy into the body as well as electronically charge it; and I measured the output of the body at any location by using a standard Radio Shack sound level meter. I had checked the maximum sound energy output of the CR and had found it to be 85 decibels.

We checked the output of the Tesla type Violet Ray machine that Tom had brought over and were surprised to discover that the Violet Ray machine on the lowest setting measured "off scale" or over 120 decibels on my sound level meter. As I recall, the 120 decibel level itself is equivalent to the noise level at ten feet behind a jet engine running at full power. It didn't take long for the four of us to agree that such a sound level is much too powerful for the human body; that level could definitely cause shocking and pain, and other adverse effects.

I told my friends that I had recently read an article written about a scientist research-

ing the effects of electromagnetic fields upon the human body. Examining the live cells under a powerful microscope, the scientist would expose the cells to a weak electromagnetic field. The reaction of the cells was to align themselves with one another and to appear to "perk up" or become more alive. When the scientist increased the field strength to a certain point, the cells were knocked out of alignment and became disarrayed. If such an out-of-alignment state were to continue for periods of time, no one knows what the adverse effects would be.

At that point, Tom said, "The Tesla type Violet Ray machine has no doubt done lots of good, and I believe it was recommended by Edgar Cayce approximately 825 times in his readings. However, I have seen people put the Tesla type Violet Ray machines output right up against their eyes. I think its effects on the body needs considerable study, and I just can't sell anymore of them."

Tom paused for a moment then continued. "Jack, you say that you've been told that the output of your Crystal Resonator is compatible with the human aura. If you could incorporate the violet ray into your Crystal Resonator then you'd really have something great! Can you do that?"

Well, before I even had time to think, I heard myself respond, "Yes, of course I can." (This was not the first time I had made such an immediate, intuitive response, without taking the time to give an answer based on logical thought processes. And, usually, my immediate intuitive answers have turned out to be the best answers I could have given. But, here I was really talking out of logical turn. My logical mind knew that I couldn't buy the components, argued that I didn't have the test instruments nor the facilities to design the needed components.)

But, thank goodness, my intuitive mind won out and I went on to tell my friends that, "I couldn't do it, but the God within me could." I then asked my friends to excuse me for a few moments, that I would like to meditate on the violet ray.

During my meditation, many unusual and unexpected thoughts poured into my mind, and here is the gist of those thoughts as nearly as I can now recall:

I AM Saint Germaine, Keeper of the Violet Flame.

The mission is to take man from darkness and bring him into the Light. The time is now for those multitudes who are ready. Your job will be to work with me in a super intensity of creation.

I cannot give you the detailed technical information you will need, but will bring to you the ones that can give you the information as you need it. You will not be given specific circuit printouts, ohm values, inductance values, number of turns of wire or length in feet nor formulas because the violet ray instrument is a tool intended for use not only on your physical plane but also for use on many spiritual planes as well.

Therefore, because of the different vibratory rates of each plane, the instrument will be designed and tuned at each step. Once you have the design, you will manufacture them. I will bring those people to you who will distribute and sell them.

During my meditation, I was shown the "whole picture" and I understood completely the job that was intended and the design of the instrument. I returned to the room where my three friends were gathered and shared some, but not all, of this information with them. I assured them that I could do the work and would start immediately. They were enthusiastic and asked me to keep in touch; then they left.

One of the first things that I learned was that the violet ray in the visible spectrum was produced by a frequency of some 753 trillion herz. I knew of no electronic circuit, gated or switched, that could produce that frequency; so I thought that I would have to use a Tesla coil. In researching the Tesla coil literature, I found that everything Tesla worked with was much larger and more powerful than what I needed.

I began to wonder if a small coil could actually be made that (1) could produce the high voltage output I needed, (2) could "fire" a bulb, and (3) work off a tiny battery? I searched all of my electronic parts catalogs to see if there were something I could purchase and modify to do the job - but nothing!

During my meditations, I realized that Saint Germaine was keeping His promise because in these mediations different Teachers from the "Inner Planes" would reveal Themselves and offer advice and

suggestions. "We" picked out some bobbins, capacitors, resistors, ICs, LEDs, cores and magnetic wire. While waiting for the parts to arrive, "We" designed a machine to wind the wire on the bobbins, including a special mandrel to hold the bobbin. A form was made to guide the wire on the bobbin, and an electric revolutions counter was obtained to count the turns of wire.

The parts finally arrived and I started to work. I won't bore you with the tedious details of the repeated failures and successes I had in perfecting the coil but I think that one of the things I encountered is extremely interesting. I had the primary coil and the secondary coil wound and assembled. I put the assembled coil in the circuit and turned on the power. And, lo and behold, a tiny yellow spark jumped the air gap. But this wasn't the color I wanted.

What to do? I was told to wind another bobbin with more turns. So I did. With this new coil installed in the circuit, the power was turned on; but this time a green spark jumped the gap. I wound another bobbin with more turns and tested it. This time, a violet spark jumped the gap. Eureka! I had finally produced the violet flame! The realization that I had been instrumental in the creation of this violet flame coil completely overwhelmed me.

By now, I had given my instrument the name of Violet Ray Crystal Resonator (VRCR). My Teachers told me that the VRCR was to be used, initially, in two different modes. In the first mode the glass electrode, or crystal wand, was connected to the high voltage output jack. Then with the VRCR set to the desired frequency band and modulation frequency, the person using or operating the VRCR would place the crystal wand adjacent to the body location requiring energy flow balancing and the VRCR would be turned on. Or, if a person's chakras were to be balanced, that person would hold the crystal wand in one hand so that the operator could measure the balance or imbalance of the chakras by use of the sound level meter.

The second mode of operation was somewhat different and I still had some work to do to perfect it. My Teachers emphasized that "We" had to find a suitable way to pulse the violet ray energy into the body and that "We" had to find a bulb which would "fire", or glow, when that bulb was connected to the high voltage output jack of the VRCR and the glass portion placed against the jugular vein in the neck. At the same time, the crystal wand was to be connected to the low voltage output jack and was to be placed

against that part of the body where the spleen was located.

According to my Teachers, when the VRCR was set to a specific frequency band and modulation frequency, the "right" bulb would fire. Such firing would modify the pulsating energy flowing out of the VRCR, through the bulb and into the jugular vein thus irradiating the blood flowing through the vein. Such energy modification enabled the VRCR, bulb, crystal wand combination to be used to destroy any virus or bacteria in the blood. My Teachers never made any medical claims nor do I. They just told me that viruses and bacteria would be destroyed! That still remains to be proved or disproved.

I tried and tested literally dozens and dozens of different bulbs of all types. I guess my Teachers were either feeling sorry for me or were, Themselves, getting tired of my lack of success because, finally, during a meditation I was told to go to an automotive parts store and purchase a six volt tail light bulb. I did and it worked!

And that, Harry, is the end of my favorite story.

And, now, let us return to and continue with the story of the evolution of the VRCR. At the end of the first eighteen months of its development, the VRCR design consisted of the following:

1. A uniquely wound coil with performance characteristics similar to a Tesla coil. In other words Jack's coil is not wound exactly like a Tesla coil but acts like a Tesla coil in operation. Jack found it necessary to design his own coil to meet the small size requirements he wanted and to limit the coil's extraneous radiation which might interfere with other internal circuitry of the VRCR. The alternating frequency, extremely high voltage output of the secondary coil could be called a carrier wave.

2. Four discrete bands – arbitrarily designated red, green, blue and violet – of modulating frequencies with the modulating circuitry capable of selecting any frequency between zero and 35,000 cycles per second. Imposing the modulating frequency on the so-called carrier wave produces a considerable number of harmonics and sub-harmonics.

3. In one mode of operation the high voltage output of the coil's secondary is fed into a sealed glass electrode, similar in shape to an ordinary test tube. The glass electrode contains selected crystals of various sizes and shapes and is filled with a solution of distilled water and sea salt. In another mode of operation the high voltage output is connected to a six volt automotive lamp and the glass electrode is connected to the low voltage output.

4. The resultant energy radiated out of the glass electrode can be detected by an ordinary, inexpensive oscilloscope and will cause a small neon bulb to glow. This indicates that a portion of such radiated energy is electromagnetic. Jack emphasizes the word "portion" because he believes that other types of energies are being radiated from the glass electrode; namely, (1) an energy somewhat similar in propagation characteristics to electromagnetic energy but having different interactive effects upon impinging objects and incapable of being detected by present-day instrumentation, and (2) sound energy, both audible and ultra.

The initial, and primary, use of this model VRCR is to balance the energy flow into and out of the chakras of the body, and to correct any energy flow imbalances at various other locations on the body. Such other locations correspond to specific body organs or to various symptomatic reactions exhibited by the body at such locations. The radiations emitted from the glass electrode are used to correct such imbalances.

The mode of operation wherein the high voltage is connected to the six volt automotive lamp is used to destroy virus and bacteria. This same connection set-up can also be used to stimulate the various acupuncture points.

During the next two and one-half years, Jack continued to make improvements to the VRCR, improvements which not only increased the efficiency of body energy alignments but also gave additional capability and versatility in the use of the VRCR. These improvements are itemized as follows:

1. A pair of single-terminated, quartz crystals were added to the input circuitry. These crystals were positioned so that the two termination points were placed at ninety degrees to each other. Jack calls one crystal the control crystal and the other crystal the power crystal. The addition of these crystals considerably increases the VRCR's sensitivity for detecting and responding to the VRCR operator's thoughts and send that thought energy through the VRCR circuitry and out to the glass electrode. When this happens, the crystals in the glass electrode react to the thought energy impinging upon them and reradiate that thought energy – probably modified somewhat – along with the other energies already being radiated; namely, electromagnetic energy, sound energy, etc.

When Jack mentally programs the VRCR, he uses the following procedure:

- a. Turn off the VRCR.
- b. Place the glass electrode against

the solar plexus area.

- c. In your mind formulate the thought that you want transmitted through the VRCCR.
- d. Concentrate and hold the thought in your mind.
- e. Turn on the VRCCR, setting it to the desired frequency band and modulation frequency.

2. The next step in the evolution of the VRCCR was the addition of red and green LEDs to the input circuitry. The red LED was connected to the control crystal and the green LED was connected to the power crystal. Jack was told that the addition of color to the circuitry made the output of the glass electrode "more compatible with the human light bodies." Jack is not sure just what that statement means but he reminds us that color has played an important part in some methods of bodily energy alignment for many years and colors have been associated with chakras and the human aura for, perhaps, hundred if not thousand of years.

3. A large "injector crystal" was the next addition to the VRCCR input circuitry. This was a single-terminated, quartz crystal with the end opposite the termination ground to form a level, flat surface. To accommodate this new injector crystal, the control and power crystals were positioned horizontally, their termination points touching. Then the injector crystal was positioned vertically at ninety degrees to the other two crystals with the termination point of the injector crystal touching the termination points of the other two crystals.

Jack believes that the addition of the injector crystal permits the following to be accomplished:

a. It is now simpler to mentally program one's thoughts into the VRCCR. Just formulate the thought, concentrate on it, put your hand on top of the flat surface on the injector crystal and turn on the VRCCR.

b. The VRCCR will now act somewhat similar to a radionic transmitter. If it is desired to have the energy from a particular reagent or object transmitted through the VRCCR, then that reagent or object should be placed on top of the flat surface of the injector crystal.

4. The next step was the addition of a yellow LED. This yellow LED was connected to the control crystal with the red LED now connected to the injector crystal and the green LED connected to the power crystal. This makes the output of the VRCCR even more compatible with the human light bodies.

When Jack wants to receive the greatest

benefit from the color energy transmitting capabilities of the VRCCR, he lies down flat on his back and places the VRCCR on his chest with the back of the VRCCR facing him so that he can see the colored LEDs through the transparent back panel of the VRCCR. He then turns on the VRCCR and concentrates on receiving the color he believes is most needed by his bodies.

Jack states that the flow of energy is from red to yellow to green; and as he looks at the crystals with their respective LEDs either visibly blinking or appearing as solid colors, he knows that he is receiving the benefits of the pulsating colors plus color harmonics and sub-harmonics.

5. The next addition was the Golden Triad "antenna." After Jack was given the information on how to construct the Golden Triad antenna and was told that the antenna's function was to adapt a new type of cosmic ray energy to the human body, he came across an unusual article in a scientific journal. This article stated that scientists at the Los Alamos National Laboratory in New Mexico along with researchers in Hawaii, Arizona and West Germany have made a startling discovery; namely, a mysterious beam of energy that appears to violate current theories about energy and matter is striking the earth. This mysterious beam is characterized by bursts of high energy coming from the neutron star Hercules X-1.

Initially, the Los Alamos scientists assumed that the beam would consist of gamma rays (extremely high energy light waves). However, it was found that the beam has properties that don't fit the usual gamma ray characteristics. In fact, the peculiar properties of this new beam are difficult to explain within our present knowledge of particle physics. The article goes on to state that the mysterious radiation may contain particles that are new to science. The Los Alamos group admitted that they delayed publishing results of their research for a year to give them time to recheck their calculations because the properties of the new beam were so bizarre.

The information Jack has been given indicates that the Golden Triad antenna picks up the energy from this new beam and adapts it for use by the human body.

6. Now comes what Jack considers the most profound and startling addition -- the White Light Circuit (WLC). Why does Jack make this unusual statement? His Teachers have told him that by radiating the body with these new white light energy frequencies, the physical/etheric bodies of man or woman will undergo a transformation -- gradual or accel-

erated depending upon a person's attitude and evolutionary status. Such transformation will result in the physical/etheric bodies being more receptive to higher spiritual energies. More recent information indicates that proper use of the WLC energies will also aid in the building of the *antahkarana* which the Tibetan Master Djwal Kul has defined in simple terms "as the bridge between the lower mind, the soul and the higher mind."

The WLC evolved from a rather unusual beginning. In looking for a way to amplify the power of prayer and the spoken word as well as transmit healing and transformative energies throughout the physical/etheric bodies of the earth, a fellow research scientist began experimenting with the first models of the VRCCR. During his research, this scientist was told that if the modulation frequency of the VRCCR were increased approximately five times this would give him the results he wanted. As a result, the initial version of the WLC was developed to meet this increased modulation requirement.

In perfecting the WLC Jack was told that there are sixteen major chakras, or power centers, involved in the stepping-down of the energies coming from the Spiritual Triad, or Higher Self. These sixteen chakras include the seven major chakras mentioned in practically all chakra literature and writings plus an additional nine chakras, or power centers. For optimum health -- physical, etheric, emotional, mental and spiritual -- these sixteen chakras should be balanced and vibrating in harmony with the basic core frequency of the earth (core frequency being defined as that frequency of vibration found at the earth's exact center). When such balance and vibrational harmony exists, the stepping-down of the energies from the Spiritual Triad is accomplished exactly as it should be.

Jack was given the core frequency and the formula to use to determine the harmonic frequencies of the sixteen chakras and power centers. How did Jack feel about receiving this new information? Let Jack tell it in his own words. "Realizing the significance of the information with which I had been entrusted, my initial great excitement quickly turned to complete humbleness knowing that I now had the wherewithal to complete the design of the VRCCR and that it could be one of God's greatest gifts to mankind."

These sixteen chakras and power centers are listed immediately below. It's very interesting to note that four of the nine additional chakras are included in Katrina Rapaell's twelve chakra system as mentioned

in her very excellent book The Crystalline Transmission. (see chart below)

Jack believes that power centers and chakras function somewhat like electromagnetic transformers. We all know that transformers are used in electrical and electronic circuits to either step up or step down the voltage of an incoming signal. However, in the case of the power centers and chakras, we are talking about the stepping-down of energy. It is Jack's belief – and much of the occult literature appears to give ample credence to such belief – that at the present state of man's evolution, if the tremendously high frequency energies coming from man's higher Spiritual Triad, also called Higher Self, were not stepped-down and, instead, went directly to the physical body, serious damage and probably death would result.

Jack was told that the Heaven Center chakra had to be tuned to the 20th harmonic of the earth's basic core frequency. When tuned properly, this chakra acts like an antenna to collect the energies, or Divine Essence, that eternally beam down to man from his higher Spiritual Triad. Djwal Kuhl defines this Spiritual Triad as the "atma-buddhi-manas or spiritual will, intuitive understanding of the higher mind."

As the Divine Essence flows through the Heaven Center, It is "stepped-down" energywise and sent to the Soul Center. If the Heaven Center is in harmonic resonance with the core frequency, there is no distortion of this energy as It is stepped-down, or transformed if you prefer. Again, let me compare the action to an electrical circuit. If the sine wave signal is fed into the high side of a correctly-designed electrical transformer, the output signal at the low side will be an exact replica of that sine wave. There will be no signal distortion as the signal passes through the transformer windings.

If the Soul Center is tuned correctly to the 19th harmonic of the basic core frequency, It will collect all of the signal, or energy, coming to It from the Heaven Center. The Soul Center then further steps-down, or densifies, the energy and sends it, undistorted, to the I am Center (18th Harmonic). The energy then goes to the Imagination Center. If tuned correctly, this 17th harmonic center will further step down the energy and send it undistorted to the brain as thoughts, feelings and mental pictures.

When our power centers or chakras are perfectly tuned, whether by the use of electronic crystal instruments or by strict mental discipline such as that of the illumined Yogi or Saint, this undistorted, stepped-down energy, or Divine Essence, or God Knowledge – whatever you may choose to call It – manifests as our Consciousness. And, of course, that Consciousness is Us.

Unfortunately, in the real world today probably 99.999999 – ad infinitum – per cent of mankind keep their power centers and chakras detuned and functioning very, very poorly because of erroneous thinking.

CHAKRA	LOCATION or MEANING
Crown	I Am chakra - on top of head
Imagination	3 inches behind Crown
Soul	6 inches above Imagination
Heaven	12 inches above Imagination
Will	3 inches in front of Crown
Brow	UNDERSTANDING
Eyes	FAITH
Mouth	ZEAL
Throat	POWER
Heart/Thymus	LOVE - on breast bone
Solar Plexus	WISDOM - 1 inch above navel
Liver/Spleen	ORDER - on navel
Adrenals	STRENGTH - 2 inches below navel
Elimination	4 inches below navel
Root or Base	LIFE - on pubic bone
Earth	6 inches below feet

As a result, our Heaven Centers are capable of collecting only a very meagre amount of the Divine Essence. And what is collected is stepped-down in such a distorted fashion that by the time it arrives in our brain and is expressed as our Consciousness, we have the resultant world conditions as exist today.

Most of us have heard or read the saying that "every action performed by an individual, no matter how small or seemingly insignificant, affects in some manner all of Nature – human beings, animals, plants, all of existence." Along this line of thought, Jack was told that the Divine Essence not only flows through our bodies but, after passing through our bodies, flows deep into the very core of the earth. This energy flow from each of us helps to activate and provide energy and force to the earth to keep it alive and well. The earth, in turn, pulses energy back into all living things at 7.83 hertz (cycles per second).

In addition to the Divine Essence energy flow, mankind is subjected to many other types of impinging energies; namely, the

planetary etheric energy field which is tainted with various miasmas, planetary emotional and mental energies (including the various inimical thought forms created by man over thousands of years) and negative astrological radiations from the various planets and stars. If mankind kept his chakras and power centers continuously attuned to and in harmony with the basic core frequency, his resulting perfectly balanced bodies could easily resist and be impervious to any adverse energies and radiations. But, of course, we don't maintain that harmonious alignment; and as a result, our emotions and thoughts are continuously swayed or controlled by the aforementioned negative energies and radiations.

As if the foregoing weren't discouraging enough, man is now polluting our environment with toxins at an increasing rate. This latter pollution adversely affects cosmic ray energies coming into the earth and probably limits the ability of these cosmic energies to help maintain the health of the earth so that it can keep pulsing at the required 7.83 hertz.

So what can we do! Correcting the environmental pollution problem is burdened with political and economic complications; so any solution does not appear to be in the immediate future. Jack sincerely believes that a more immediate beneficial impact upon all the problems

afflicting mankind can be realized by proper use of the VRCR with its White Light Circuit.

As more people become attuned and harmonized to the core frequency of the earth, the Divine Essence will be transmitted through them into the very roots of the earth. The atoms creating the physical/etheric planes will vibrate at a higher frequency, creating new matter which will reflect and radiate more of the Light of God. The atoms in our bodies will also vibrate at higher and higher frequencies, recreating our bodies according to the Love and Will of God. We can become "Master of our fate and Captain of our Soul"; and, at the same time, contribute to the spiritualization of the earth. And the more spiritual mankind and the earth become, the easier it will be to solve the environmental problems.

Of course, Jack is always asked the question, "Will the White Light Circuit work for everyone?" His answer is very frank; he doesn't know for sure. But Jack does believe

that it will work for anyone who tries it and who truly wants to receive its beneficial effects. The results can be very subtle or very earth (Universe) shaking. Among the people who have tried the WLC, one very sensitive individual consciously saw her mental body flanked by the Archangels Raphael and Uriel and being escorted home to the Great Central Sun, the Creative Center of our Universe.

Jack has also been asked the question, "How long will the beneficial effects of a WLC attunement last?" And, again, Jack's frank answer is, "I don't know for sure." Then, he goes on to explain that each thought affects our mental, emotional, etheric and physical bodies. The radiations from these bodies, in turn, affect the frequencies of vibration of our power centers and chakras. If the thought does not express God's Will or Truth, the resultant radiation will adversely affect our bodies which, in turn, causes the power centers or chakras to vibrate at inharmonious frequencies. Once this happens, that particular center or chakra will no longer be in harmony and this will cause a restriction or distortion in the flow of the Divine Essence.

I asked Jack to tell me what he thinks all of the foregoing really means relative to the effects on the individual person and on mankind in general. Jack came back with the following statement. "I believe that by use of the Violet Ray Crystal Resonator with the White Light Circuit attunement one has the opportunity to spiritually recreate his very

own Being; and by so doing, contribute to the well-being of our earth and all of its inhabitants. I believe that correct use of the WLC can accelerate the workings of karma, thus shortening – in some cases, completely negating – the necessity for repeated earthly incarnations."

7. The next steps in the VRCCR's evolution occurred almost simultaneously; so I shall group them immediately below:

a. A small, moldavite crystal is placed at the junction of the injector, control or power crystals. This adds a spiritual frequency to the transmission of the VRCCR for those persons able to respond to or receive such a frequency, and, of course, will aid in the spiritual refinement of those persons' bodies.

b. An infra-red LED is connected to the input circuitry. Adding this energy to the VRCCR transmission helps in the disintegration or "burning-off" of unwanted, negative vibrations.

c. The addition of a diffuser, similar to a diffraction grating, greatly enhances the effectiveness of the impact of the colored lights upon the viewer.

Jack is now manufacturing and selling several different models of the Violet Ray Crystal Resonator. Among his customers are scientists, engineers, doctors, nutritionists, nurses, metaphysicians, and people who are searching for the Truth and a better way of living. From time to time, he receives reports and comments about new and different uses of the VRCCR.

Even Jack will be the first one to admit that he doesn't know all the potentialities of the VRCCR. He believes that the VRCCR could be used to combat diseases in plants and agricultural crops as well as increasing their growth and quality. And he hopes that some sincere researcher will prove or disprove the statement made earlier about the destruction of virus and bacteria. In this regard Jack's Teachers have told him that the radiation from the VRCCR's violet ray helps in this destruction in two ways; namely, (1) the violet ray radiation causes a change in the polarity of certain virus which then makes them susceptible to destruction and assimilation by some of the human body's white blood cells; and (2) when tuned correctly, the radiation will cause certain types of virus to literally "explode."

Relative to the stimulation of acupuncture points by needles, the information made available to Jack indicates that the flow of energy in the body is influenced not only by insertion of the needles but also by the relation of the two auras involved, the aura of the subject and the aura of the acupuncturist.

For anyone interested in contacting Jack and obtaining further information about the Violet Ray Crystal Resonator and other New Age products that Jack has invented, he may be reached at the following address: PILLAR OF LIGHT ENTERPRISES, 2762 W. Desert Crest Drive, Tucson, Arizona 85713. Telephone (602) 624-5355.



HAVE YOU SO LITTLE BELIEF?

"What are the Masters? Human beings like yourselves, but older. They are not Gods, nor Angels, nor Elementals; but are those individual who have achieved and completed the same task as you have set yourselves. What you are now, they were once. What they are now, you can be."

"Have you so little belief in the survival of bodily death that you cannot conceive of the existence of the Master? Have you so little belief in the doctrine of evolution that you cannot conceive of human beings as greatly superior to yourselves as you are to animals? Have you so little knowledge of the power of the mind that you do not believe in the possibility of communication between you and them? If there is nothing higher than yourselves what hope have ye? And if you accept the possibility why should you not try it? And if you try for it why should you not expect that your first achievements will be rudimentary and imperfect and inaccurate? But if you never make a beginning you will never arrive at completion. You must be content to speak in broken tones before you can speak fluently. If you do not so essay you will never learn to speak. We shall teach you the language."

Dion Fortune in The Cosmic Doctrine

INTRODUCTION TO THE WORKS OF DR. JOSE ALVAREZ LOPEZ

by Jorge Resines

I have often mentioned in my writings the works by Dr. Jose Alvarez Lopez, now you have them here untranslated by me but written in English by their author himself.

Here you will find that many of his works reflect the relativistic viewpoint, but do not be discouraged by this. Dr. Alvarez Lopez has found that many currently-accepted relativistic viewpoints are MISTAKES! This opens a door to both relativists and antirelativists to verify what is right and wrong at both General and Special Relativity (and, of course, to jump at each others' throats!), such as he shows in "The Meaning of the Clock Paradox" and "Relativistic Dimensional Analysis".

If you want to see new devices, you have two here: (a) A new flying device at "Self-Propulsion", which patent was finally denied by the Argentine Patent Office on the grounds that it "contradicted the Principle of Action and Reaction" (Dr. Alvarez Lopez has commented on his invention: "This was, of course, its purpose"); and (b) A different kind of particle accelerator that possessed new features not used at any other over the world yet (see "New Particle Accelerator"), he planned to use it for achieving fusion but the necessary backing never materialized. Now both of these devices are for you!

If you have thought that the venerable James Clerk Maxwell explained all there is about electromagnetism you are in for a surprise in "On the Inexistence of Electronic Inertia in Metallic Conductors" (which includes "New Electronic Micrometer") where is explained an until-now hidden aspect of electricity. This is further amplified in "Gravitational Interference in the Einstein Effect", where the first steps are given towards the control of gravity.

I have left for the end my favorite, the Metric Theorems. When Peter Tompkins wrote his "Secrets of the Great Pyramid", he included in Chapter XX, "Temple of Secret Initiation", Alvarez Lopez's analysis of the coffer within the so-called "King's Chamber"; but forgot to tell his readers of the theorems that were included at the same then-referenced book ("Fisica y Creacionismo"). You have the theorems plus more complementary and useful data in "The Principle of Variational Homogeneity"; whichever work is referenced there and you do not see included in this book is because its contents are disseminated at "Relativistic Dimensional Analysis" and "The Meaning of the Clock Paradox", but condensed. The original works are not available in full translated into English, but the core and the main data is where I said.

If you are an Euclideanist and are worried by the demonstrability of the second metric theorem, because during your early-school days you were forbidden to add lengths with

surfaces, and both of them with volumes, I suggest you disregard this worry. Because lines and planes are reduced to a single unit in the Euclidean system: The Point. Space is said to be filled by infinite planes, which are formed ultimately by points.

Thus, adding lengths (measured by straight lines formed by a sequential alignment of points) with surfaces (formed by planes which are composed by points) and volumes (formed in the Euclidean system by infinite planes, these ultimately constituted by infinite points) is not only possible but a logical corollary to the basic Euclidean axioms.

That good old Euclid indicated an infinity of points at straight lines, surfaces formed by planes and space occupied by planes, is another matter altogether. His axioms do not involve experimentation, they are accepted without asking for proof of their correctness. He never indicated what a point actually is!, for example.

Anybody replacing the point by another concept, and backing it with experimentally-reproducible proofs, has not only made it better than Euclid himself but also has the possibility of making "impossible things" to the common mathematician.

Well, enough of my personal opinion. Dr. Alvarez Lopez welcomes letters and the mailing of technical materials to his working place. Be polite and concise in your letters (write readable, type if possible) for he is a busy man and it is necessary in this case to go straight into the core of the matter. You can address your letter as follows:

Dr. Jose Alvarez Lopez
Instituto de Estudios Avanzados
Jujuy 392
(5000) Cordoba, ARGENTINA

Books by Dr. Jose Alvarez Lopez available from
B.S.R.F., Box 429, Garberville CA 95440:

Collected Papers: Relativistic Dimensional Analysis; On the Inexistence of Electronic Inertia in Metallic Conductors; Gravitational Interference in the Einstein Effect; The Meaning of the Clock Paradox. 64 pages. \$9.95

The Principle of Variational Homogeneity. Includes: Relativity of Size; Metrical and Tensorial Invariance; Relativistic Concept of Temperature; Absolute Units; Natural Units. 79 pages, \$6.95

Self-Propulsion: A New Flying Technique. Includes: Conservation of Momentum; Self-Propulsing Device; Neutralization of Centrifugal Force; etc. 52pp, \$5.95

Add \$2.50 first book, \$.75/additional, Californians add 6% tax.

MAGNETIC ENERGY TAUGHT ME NEW BASIC CONCEPTS

Part III

by Larry Spring

NOW THAT WE KNOW

Radiating magnetic energy keeps showing us that it really does come in a packet or quantum as proposed by Sir Isaac Newton, Albert Einstein and Max Planck years ago.

The magnetic structure of a magnetic field is perpendicular to, and a continuous loop around, the transmitting conductor with those magnetic lines of force lined up one way or the other depending on the direction of the electrical current flow that caused them. This was discovered by Hans Christian Oersted and expressed in his right hand rule.

Now that we know the electrons and resulting electrical current are driven in a conductor when it cuts the magnetic lines of force of a moving magnetic field. That movement is relative so either the conductor or the magnetic field can be moving.

Now that we know Lenz made a valid observation many years ago when he discovered that an electrical current in a conductor driven by a moving radiated magnetic field develops a magnetic field around its path that is in opposite polarity to the field that caused it.

In 1985 I was able to measure the size of a quantity of radiated magnetic energy using television transmitted energy 150,000 to 9,600,000 times the diameter of a photon of visible light. This size turned out to be the 1/2 wavelength in diameter.

The shape as determined by myself in 1985 turned out to be a perfect elastic sphere the 1/2 wavelength diameter of which is directly related to the frequency. This determines the time the magnetic field has to grow around the current carrying conductor in 1/2 cycle of an alternating current. This magnetic field expansion takes place at the speed of light (186,000 miles per second). This speed using TV transmission was experimentally verified by myself in 1954.

In 1985, with the help of Oersted's right hand rule relating to the magnetic field around a conductor carrying a direct electrical current, I was able to recognize the alternating polarity spherical units of transmitted energy being driven off of a conductor that is carrying an alternating electrical current. This transmitted energy has all sorts of uses including radio, television, heat, light, x-rays, etc.

Once the size, third dimensional spheri-

cal shape and magnetic structure was determined by my experiments other physical actions could be understood and explained.

I recognized a logical explanation of energy passing through a denser medium and giving the illusion of slowing down. This was recognized as a retardation due to compression which permitted regaining its original speed of 186,000 miles per second upon emerging from a denser medium like water or glass. This spherical unit entry into glass at an angle explains the change of direction on entry and the restoration of the angle of entry upon emerging from the bottom side of a sheet of glass. Spherical compression also explains the shallow angle of entry into a denser medium and the steep angle necessary for departure, resulting in total internal reflection.

The elastic spherical shape explains the bounce characteristics of a unit of energy which simply bounces like a ball from a polished surface retaining its original size, density and frequency. These units can be redirected by a smooth flat surface like a mirror or directed to the focal point of a metal parabolic dish.

My experiments show that this bouncing action is easily distinguished from the unit of energy that has its lines of force cut by a conductor which thus absorbs and reradiates a newly formed magnetic field in a global pattern around the resonant length electrical conductor.

Spherical units of magnetic energy size were experimentally measured using screens and chicken wire but I also measured them by surface roughness. Light photons of 1/100,000 inch in diameter will bounce in unison from a mirror surface retaining their original relative position thus conveying an undistorted picture, while the same photons would bounce in a scattered pattern from sandpaper, which looks smooth to the spherical units of 4GHz satellite signal. These are 150,000 times the diameter of visible light photons, which makes them the size of a ping pong ball. A gravelly surface of 1 inch diameter pebbles will scatter 1-1/2 inch spheres of energy of the 4GHz satellite transmission while television channel 3 with units of energy 8 feet in diameter will bounce in unison and synchronize with a test antenna from that same gravelly surface.

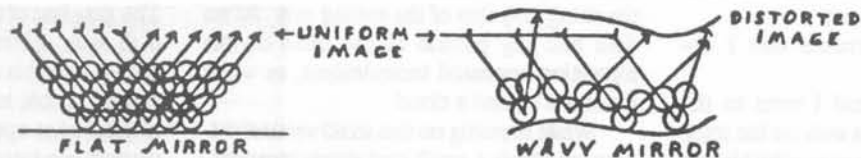
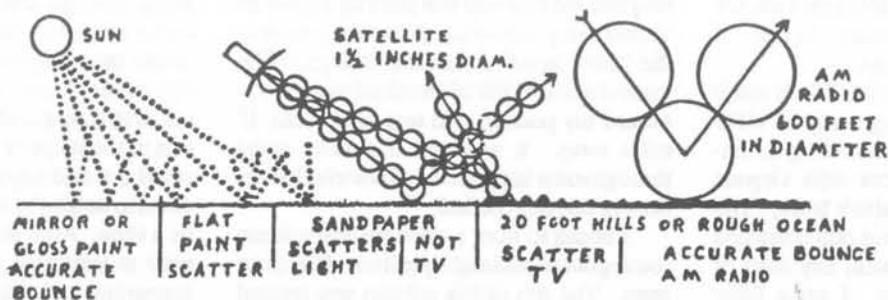
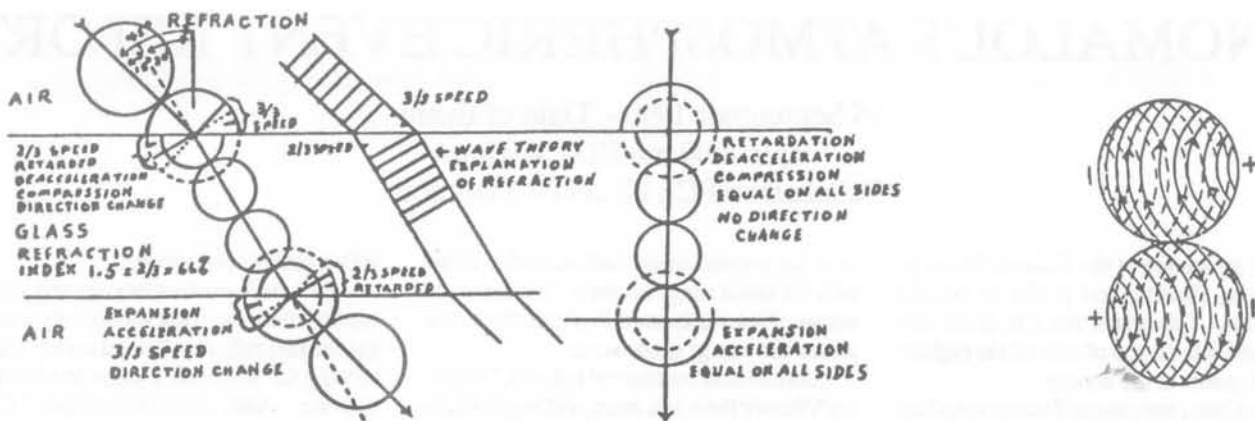
The 1/2 wavelength diameter spherical shape and size explains the cut off diameter of a tubular metallic, magnetic energy guide (wave guide) which has to be large enough to permit the 1/2 wavelength diameter spherical units of energy to skip through at grazing angles. Too large a tube would permit bounce paths to become longer than direct paths through the tube causing points of constructive and destructive interference within the tube. Too small a tube at or smaller than the 1/2 wavelength in diameter will not permit passage of that frequency.

Now that we know all these interesting things, what can we recognize as possible that hasn't already been done with the aid of instruments and mathematical equations?

Wave guides could be used more extensively. I regard them as super-conductors of magnetic energy that can be converted to electrical energy at will, and rectified to DC if desired. They are not required to be super cooled and can operate at any temperature including 6000 degrees Kelvin which is the temperature of white light at the surface of the sun. The melt down temperature of the guide itself is the limiting factor.

The interior of the tube should be maintained at a mirror finish for visible light, but smoothness is relative, and sandpaper roughness might be considered smooth to spherical units of magnetic energy 1-1/2 inches in diameter produced by the 4GHz frequency. A polished tubular metal wave guide about .077 inch inside diameter filled with an inert gas should not corrode and should conduct magnetic energy of about .059 inch in diameter sent out by an alternating current of 100 billion cycles per second (100 GHz) with a full wavelength of .118 inch. These figures are approximately correct and are for a circular metal guide just to give you an idea of what might be used. Figures are from my experiments and should be refined by more precise instruments.

A rectangular metal guide expands the circumference of the spheres of energy by compressing the sides of the 1/2 wavelength diameter spheres thus it may need more length on the ends of the rectangle to accommodate the perpendicular lines of force. A rectangular tube will keep the energy from rotating its polarity; so it is always in the correct position to give up its energy to drive



electrons in a 1/4 wavelength probe that intercepts the magnetic lines of force. Several 1/4 wavelength probes could be used in a circular waveguide to intercept the energy in its various positions.

A polished metal tube will contain energy. A pure solid glass rod will also contain the energy by total internal reflection providing the material surrounding the glass rod is less dense than the glass. The spheres of energy expand and pick up speed on the side that pops out first when trying to emerge into less dense air or other medium. This rotates the energy sphere back into the denser glass.

The fact that energy appears to travel slower in glass, water or plastic than it does in air is due to the compression of magnetic energy units in a denser medium. 100 spheres in glass will extend in a line only 2/3 as far as in air, and in water 3/4 as far as in air. Compression gives a logical explanation for the fact

that energy upon emerging from the denser medium picks up its normal speed by expansion like a bubble popping out of a heavy liquid.

Compression and expansion also explains why energy is pulled into a denser medium at a shallow angle but it takes a very steep angle to escape the same liquid. This explains total internal reflection. The foregoing is a Larry Spring analysis.

The exact speed of energy can be figured by using the refraction index of various materials like 1.33 for water, 1.5 for glass and 2.45 for diamond. These charts can be found in most physics books. The explanation of the phenomenon is a Larry Spring observation that I have found only in my own books and articles.

An aquarium in your home is a good place to observe and measure the compression and expansion of light. An object on the back side of an 8 inch aquarium looks 8 inches

away when seen above the water while it looks like 6 inches when viewing the same object in the same position through the water. A ruler will verify the distances. When the object is moved back another 8 inches behind the aquarium the distance will appear to be 14 inches instead of actually 16. The visual shortening of the distance of 2 inches is only through the water. The distance is normal through the air. Air is only slightly restrictive to the passage of light as compared to a vacuum. The refraction index of water is 1.33 which converts to 75%. This is a figure I can understand better.

The answers to most of our questions about energy can be seen all around us when we recognize Larry Spring's basic model.

Larry Spring
225 Redwood Ave.
Fort Bragg, California, 95437
(707) 964-2116

ANOMALOUS ATMOSPHERIC EVENT REPORT

15 September 1990 -- Date of Event
7:00 to 8:00 pm EDT -- Time
Tallahassee FCI, Florida -- Location

I am an inmate at the Federal Prison in Tallahassee, Florida, and prefer to remain anonymous. This prison lies NE of the city proper and sets on top of one of the highest elevation points in the county.

I have been here about 3 years, spending the last 2 years in the Electronic Vocational School located on the compound. My background is in part; Commercial/Instrument Pilot Rating with about 2,000 hours, 3 yrs. US Army Special Forces, Farmer, Surfer, in short I am weather conscious.

During the last 6-8 months I have made an intensive and continuing study of UFO phenomena, some Radionics, Eloptic energy, Wilhelm Reich's work with Orgone energy, and Trevor Constable's book, "The Cosmic Pulse of Life". I have only scratched the surface and do not claim any level of expert knowledge/expertise. I am a Bible reading Believer and student of Constitutional law (U.S. Constitution).

The Event or Occurrence that I observed on 15 Sept. is thus:

After the evening meal I went to the upper recreation yard for a walk on the track (440 yd. oval asphalt). This area is the highest point around for X number of miles. Visibility was clear with very low and slight haze (est. 1000'). While it was clear overhead, there were a few towering cumulonimbus in all quadrants. The closest one lay to the North, say 20-30 miles distant.

After walking about 2 miles on the track, I sat down on a slight rise overlooking the track and began to observe the cloud formation lying to the North. It was quite a majestic cumulonimbus trying to cook off into a thunderstorm. It dominated the North quadrant and I'd estimate its height at 12,000' to 18,000'. The setting sun was striking it with the top 2/3 of the formation in clear and full view. The base was in the grey shadow of twilight.

Earlier in the day, I had experimented with my visual ray and "cloud-busted" 3 small puff-ball (cumulus) clouds. I decided to experiment on this T-storm in the making with my VR, not to try to drain it, but to see if I could make flat spots on the tops, cause holes or vortices in the cloud walls. As I sat there and experimented, after about 30 min-

utes my consciousness had expanded along with my visual range to where I became conscious of the whole motion of this cloud and where the energy spots were.

As this cloud continued to build, I played my VR over the whole mass, and began working two smaller build-ups that were popping up on either side. At about 45 minutes into this exercise there was cloud to cloud lightning and the build-up was pushing 30,000' to 40,000' in my estimation. It had not gone into the "anvil head" formation though. The general motion/drift of this cloud was directly toward my position and was now about 15 miles away. It was and had been going through some impressive and colorful formations in this time period.

I began to work a small vertical column coming out of, and slightly in front of the main mass. The top of this column was around 10,000 feet estimated. The bottom went into the rising gray line of the setting sun. At no time had any portion of the mass of this formation appeared incandescent, as when the sun is behind a cloud.

While focusing on this small vertical column, suddenly a small oval shape incandescent spot of gold light appeared in the right side (away from the sun).

Its shape was:



and it appeared the size of a high flying jet when the sun glints on it.

This light stayed on for about 30 seconds and I continued to observe and "bore in" around it. Suddenly, it winked out. 15 seconds later 3 incandescent spots of light appeared within this vertical column. (This was taking place in the top part of the column.) They stayed on 10-15 seconds and then winked out. As they did, the whole top of the cloud appeared to instantly move, changing its shape somewhat. A few seconds later 5 glints of light appeared, some oval shaped, and 2 pinpoints or just bright spots. They stayed on 10 or 15 seconds and then winked out. As they winked out the whole top of the cloud restructured itself instantaneously! -- Much like a child's kaleidoscope instantly restructures patterns, collapsing and emerging

with a totally new pattern.

By now I am standing up and pinching myself. Since the track was full of people and the racquet ball court behind me as well, I was looking for someone I knew to witness this with me. Alas, most were others I did not know.

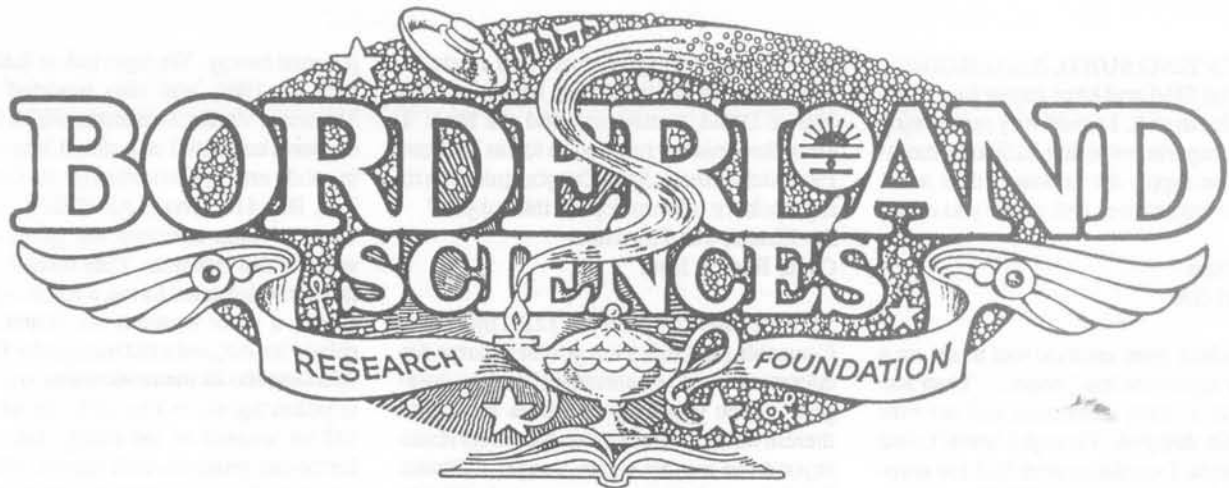
By now, there were numerous incandescent lights appearing in this cloud and it was going through absolutely fantastic restructuring every time the lights winked out. They would then reappear in different positions, stay on for about 10-15 seconds, and wink out, with instant and now massive reorganization of the shape of the top of this column. I could not find anyone I knew, so I sat back down to watch the rest of what I perceived to be a show. After about 2 to 3 minutes there were at least nine glints and points of light appearing and disappearing. The cloud seemed to be losing its density and cohesion. The gray line of the sunset was coming up on it as well. After one massive kaleidoscope display no lights reappeared in the usual time frame. Then, in the approximate place the original glint appeared, one shaped like the original reappeared, stayed on for maybe 10-15 seconds, and then winked out. It appeared to me as if saying "good-bye"!

The top of this cloud column appeared rather drained, misty, was no longer looking like a solid "popcorn" cloud top. I continued my observation another 20-30 minutes as darkness descended. The column was absorbed into the main mass as it began to blow toward the prison. We received some wind, and a light sprinkle. The main mass never reached anvil top proportions, and backed off and dissipated -- or at least collapsed into a regular cumulus or c-nimbus type clouds. By 8:30 pm it was dark and I ceased my observation.

I was not on drugs or alcohol, having had neither for the last 3-1/2 years. I have not been a user of mind altering drugs ever, (never tried any either).

The above is true as to what I witnessed, the evening of 15 September 1990 at Tallahassee Federal Corr. Institute, Tallahassee, Florida.

Written 16-17 Sept. 1990.



Bulletin Board

LETTERS

A LETTER FROM THE EDITOR

Dear Friends, I'd like to thank everyone for the many Christmas, Hanukkah, Solstice and New Years greetings that were sent in here. We appreciate the many kind thoughts. May 1991 be a prosperous year for all.

When Alison and I took over from Riley in 1985 he told me that as far as keeping up with correspondence went, he barely had time to stack the mail. The mail has increased greatly since then, and so has our ability to keep up with it. But it is still fact of life that we cannot personally respond to all incoming general correspondence. We'll put what is possible in this bulletin board, and hope that those who don't receive immediate personal replies to their questions will be understanding of the reality of the situation. Thanks.

B.S.R.F. is going strong, with new articles coming in on a regular basis. This issue of the Journal could have been 64 pages just to keep up with the flow of articles, so we are looking into how to get more packed into each issue. Expansion of page size entails more setup time and higher printing costs, so we must weigh it all out. So to the many of you looking for an article to be printed, be patient, we're trying to get them all in print. We may do a yearbook of articles that didn't make it into the Journal due to space, but are well worth reading.

We are entering a phase where people no longer take an idea for granted, no matter how cherished, and instead test ideas themselves. When I took over five years ago I stated that I wanted to be an iconoclast.

People believe a lot of things. They know even less. People who can make the clear distinction between knowledge and belief are far ahead of the masses. I've had many comments over the years that people appreciate the JBR because we're not afraid to say what we think, to promote what we feel is worthwhile and to criticize something that doesn't seem right -- no matter how many people in the borderland fields believe in it. Well it would seem to me that the basic concept of investigation and research includes speaking one's opinion. If I don't express my opinion, then I doubt anyone will do it for me. And that goes for all the Borderland members and Journal readers. Say what you think -- balance your thoughts between your knowledge and belief -- and we'll print what we can in this column, with further comments no doubt. Hopefully we all have room to learn, otherwise what is the point?

And we're always open to suggestions and new ideas. If you have an idea for an article or an experiment and don't want to write anything in detail, then write a brief letter and maybe another reader will pick up on it and amplify it. Don't forget that many of the respected names in this field (*i.e.* Schauberger, Lakhovsky) died with their secrets only partially revealed. (Where would the world be headed today if Wilhelm Reich left detailed notes of his orgone motor in the public domain?) Those interested in expressing their ideas will get their articles published here (as space and time permit), and stimulate further work. The quality of life of the earth is declining rapidly and the earth is changing. Basic observation will describe this

to any clear mind. If you have an idea that will help then toss it into the arena -- let it float in the ethers until it grounds in a proper manner.

Thanks for all your input and suggestions. For the future...

Tom Brown, Garberville CA

RENEWAL NOTES

We get a lot of short notes from members on the returned renewal forms. We enjoy them all. Here is a recent sampling...

- * "I've split the difference between regular and senior citizen. I am a senior citizen, age 83, and have been a member since 1962!" Jean C. Taneyhill.
- * "I am a senior citizen but feel more like 21 so I paid regular." Christopher Hills.
- * "Well worth the money to have something to disagree with!!" Robert McLellan.
- * "Your Journal is getting better & better. Keep it going." Steven Patascher.
- * "I enjoy The Journal, some articles I do not understand the terms used, those I understand I enjoy very much." Genevieve Rivers, 93 years young.
- * "You have a great organization and a superb journal. I am looking forward to a great year with the BSRF." Dave Whaley.

Thanks to you all for your participation - that's what keeps BSRF alive. I try to put something in each Journal for everyone, from the intelligent layperson to the ether physics researcher. It's a tough row to hoe, but we seem to have struck a balance that works for our readers. We look forward to see what the New Year brings.

QUANTIFYING SUBTLE ENERGIES

**I have an SE-5 and have access to a Radionics device as well. I would very much enjoy doing an experiment using Kolisko's methods. Please supply the necessary data and I will do the experiment and advise you of the results.

Gorden Pfau
Cleveland GA

Lilly Kolsiko's basic method was to set up a standard crystallization process. Then she would add in extra substances and see how the crystals changed. Though I haven't used her methods, I would suspect that the chromatographs, developed by Pfeiffer and explained in books from the BD Association, would suffice in this manner.

The experiment I was thinking of consists of checking the modifications of the crystallization patterns by the insertion of homeopathic substances prepared in three ways, 1. standard, 2. radionic, 3. SE-5. This would lead to six experimental categories: 1. no addition, 2. radionic prep added, 3. radionic prep broadcasted, 4. SE-5 prep added, 5. SE-5 prep broadcasted, 6. standard homeopathic prep added.

A second approach to this experiment would be to use the methods that L. Kolisko used in her book Agriculture of Tomorrow (from the Bio-Dynamic Association, Box 550, Kimberton PA 19442). That would be to see the effects of the various preparations on a standard sprouting sequence. For example make a setup with sprouting wheat (or alfalfa) seeds, 1/4 cup (or an scale-measured quantity) per jar in six jars. Watering equally, but with the above listed preparations added to the water. After 3-5 days do a weight analysis, as well as a subjective analysis of leaf width, color, etc. (This experiment can also be done on plants growing from the ground and the height can be used for analysis.) The quantitative results can be graphed and evaluated in a scientific manner. The subjective observations, which cannot all be graphed, are equally important and should be written up in any summary of experiments.

The above protocol could also be used with waters from different locations, or water from one location charged with various symbols, gems, pyramids at various alignments, etc. It is an excellent way to quantify subtle energies and is limited only by the imagination.

BIO-ENERGY BUGGERS

**What I wish to research next is how the bio-energy, or elemental energies, or soft electrons, or whatever you want to call those

luminous little buggers, react and relate to geometric forms (triangles, hexagons, the Star of David, pentagrams and the like). I know they react or respond to forms because I've watched them do it! Can you guide me to any books or information on this subject?

Art Khalsa, The Firewalker
Cedar Rapids, Iowa

THE COSMIC PULSE OF LIFE by Trevor Constable (B.S.R.F.) is a primary source for information on researching "energy buggers". The visual ray exercises contained therein will help one develop the ability to see beyond the normal optical range. Wilhelm Reich termed this energy orgone, but it has been known by other names over the millennia: ether, prana, odic force, X force, etc. Reich scientifically studied the optical (and other) effects and this research is reported in his writings. He showed that specific arrangements (layers of insulating and reflecting materials) condensed the energy, but he left no data on any geometric forms outside of the basic boxes he built.

L.E. Eeman showed how to redistribute this energy around blockages with his copper screens and wires, with research up to the present by Peter Lindemann. See **THE L.E. EEMAN REPORT** published by B.S.R.F.

Patrick Flanagan's investigations into Pyramid Energy inspired a generation of subtle energy researches with various geometric shapes, and there is still a wide open field to work in (also see **HANDBOOK OF UNUSUAL ENERGIES** by Jerry Gallimore from Health Research, PO Box 70, Mokelumne Hill, CA 95245).

In the 1950's dowser Vern Cameron (See **THE CAMERON AURAMETER** from B.S.R.F.) provided borderland researchers with the knowledge of the energies emanating from cones, and I do suspect that this is where Trevor Constable gained some of his insight on the use of geometric forms to manipulate the etheric energy controlling the weather. Granted Cameron's basic principles are but a component in the grand design of Trevor's instrumentation which synergistically synthesized ideas from Rudolf Steiner, Ruth Drown, W. Reich and others into an innovative new technology.

Christopher Hills' **SUPERSENSONICS** (Dr. Hills' Technologies, P.O. Box 644, Boulder Creek, CA 95006) contains an incredible wealth of information on subtle energies and their reactions with various material forms and patterns. Also, I should mention the Hiranya energy research in Japan, wherein the Star of David pattern is used to generate an energy with similar effects to

pyramid energy. We reported on that project back in 1986, and also reported on the Vortenna Vortex Generator which is a Star of David imprinted on a circuit board for use in subtle energy researches (from Chrystech, P.O. Box 410, Oracle AZ 85623). And the Tattwa Vision exercises will prove of great value in this research. They consist of meditation on elemental forms, a yellow square for Earth, a silver crescent for Water, a blue sphere for Air, and a red triangle for Fire (and of course the 12 minor elements, red triangle in yellow square = Fire of Earth, etc.) You will be amazed at the energy these simple forms can generate, with effects both on the physical plane and in consciousness (amazing stuff for meditation and dream work).

All of the above should be required reading for anyone in this field wishing to further research those bioenergy buggers. And remember, the imagination is your best friend in research. For example, try using the experimental protocol (in my answer to the previous letter) to test the effects various geometric shapes drawn on paper have on water used on plants. We're open to further comments and leads on this vast area of research. And consider the words of Alexander Graham Bell, "Don't keep forever on the public road, going only where others have gone. Leave the beaten track occasionally and dive into the woods. You will be certain to find something you have never seen before...."

LAKHOVSKY'S ORIGINAL

**You ask whether the original Lakhovsky MWO had any arc between antenna coils. I don't remember any but to make sure I checked up with a friend who has worked on the MWO and knows it inside out. He was also present when I saw the device working. He tells me that there is definitely no arc between coils. The arc occurs inside the machine after the "Ruhmkorff coil". He also says that there are two tungsten plates which are drawn apart and brought together manually.

The other thing I remember is a sort of metal wand with a knob at one end which is used between the two units to treat people. At the time I saw it, one of the persons present had a bad back. The two MWO antennae were turned on and were facing each other about 6 ft apart. The "wand" was applied to the sore back. I seem to remember that it kind of gave off sparks, but I'm not sure of this. I touched the wand and I could clearly feel something coming through. My knowledge of electricity is nil. However, if you have further questions, I could always try my friend

who should be able to answer them for you. Ron Crossley, Solesmes, France
Many thanks, as this confirms the evidence of Lakhovsky's own pictures used in his books. Would you be so kind as to ask your friend if it is possible to get a schematic (even a rough drawing from memory) of the basic layout of the MWO, which we could reproduce on these pages, also any antenna construction details. Many questions remain such as what components are in the metallic tubes holding the antennae up, and such (Eric Dollard finger-dowsed the pictures of the tubes and felt it was an arrangement of capacitors and spark gaps — his basic MWO diagram, an intelligent guess of what Lakhovsky was doing, is in the MWO Handbook). A basic schematic would probably be the most important piece of information to date. And please read on, it seems the pot has been stirred.....

LAKHOVSKY ANTENNAE

**I got my Nov-Dec Journal where it shows an update on Lakhovsky's antennae. On page 181 of *Secret of Life* it also shows the same thing. Take a magnifying glass and you can see it. I disagree with all the experts, it seems that they are chasing a phantom ghost. Lakhovsky gave us all his secrets in his book, all we have to do is read carefully.

He could cure cancer and other ailments with a simple piece of copper wire. Lakhovsky wasn't dumb, can you see him telling doctors to cure with a piece of wire — they would tell him to get lost, so he built a very complex machine to impress them, also he would have something to sell. I think Beck's machine is close — except the antenna. Who came up with this aluminum foil glued to plastic? That's where they fell on their face. If you read page 75 of the same book he repeats VIBRATES 3 times. — That's why he hung his rings with silk thread, so it wouldn't damp the VIBRATIONS.

Can you imagine a pipe organ with copper strips glued to a board? I have designed an antenna using copper tube of varying sizes held by fish leader that I think would work fine. I'd bet a penny to 10 bucks that George used thin wall bronze tube as it will resonate better — but it's expensive to fabricate.
Louis A. Schad
Reseda, CA

Yup, I agree that Georges was no dummy. His book shows plant cancers that have been cured via use of a single copper wire single-coiled around the plant. He felt that the pre-matter cosmic rays (or what I would call the material pole of the etheric instreams) were "ringing" the copper coil, in effect creating a

tone that would heal the plant. I got the impression, from studying Lakhovsky's progress towards the vacuum (or low pressure rare gas) patent, that in his equipment Georges tried to invert the process — exciting the ring with a post-matter high frequency current that would create a healing tone. By using log periodic antennae (as would be allowed under the tube MWO patent) a vibrant chorus would ring in the ether, the tones — via the math of the antenna — would be such that they could harmonize the functioning of the human body.

Some new developments on the way to wind the coil around a plant has just come in from Health Research and will have to wait for next issue (where does all this stuff come from?).

The aluminum foil antennae were developed by Riley Crabb, as a low cost way for experimenters to make their own antennae without having to have printed circuit boards made, and many folks were quite happy with the results. The physical evidence now clearly indicates that the Beck unit is quite different from the original Lakhovsky unit for which the cell regeneration results were recorded. What I have termed the "BECK MWO" must stand on its own merits and it can lay no claim to Lakhovsky's recorded results. As stated several times in the past Beck's device is more like one of Tesla's electro-therapeutic oscillators, except Tesla used copper sphere antennae, coated with a heavy dielectric to suppress sparking. Beck's unit would be covered under Lakhovsky's original (and very generalized) patent, but research of Lakhovsky's own material shows it is not what he used for electro-therapeutic researches. To excite the antennae in the Beck manner will not create the same vibrating field that Lakhovsky's antennae excitation circuit will. But it does create an electrical field that some claim is beneficial to a live body placed in its proximity.

It makes much sense that the antenna should also vibrate physically as well as electrically. Ah... if we simply had an original unit to weigh and measure...

Lou has sent us in a MWO of his own design with a single spiral antenna made of two twisted bare copper wires. We will be running a several part article on construction and use starting next issue. This unit is reminiscent of the Sun-Ether disc of Oscar Korschelt, circa 1891 (see Mar-Apr 88 JBR and *MWO Handbook*). Having sat in front of a number of different operating MWO's over the last six years I have to say that Lou's unit is the most exciting thing I've ever seen like this. I could strongly feel the effect 10-12

inches away, and there was no electrical excitation of the antenna, rather it is physically vibrated. There is a low voltage shocker that can drive the antenna through two smaller copper coils. It's easy to build and use, simpler than the Beck units, and should provide borderlanders with years of workable ideas. Lou will not be selling these devices but will provide complete building plans in the JBR.

Also, in the last issue we had the question on how the Golden Ratio relates to the Golden Ratio Antennae. We received a call from Patrick Flanagan (who besides his subtle energy and vortexian researches is also a brilliant electrical engineer). Patrick reports that the Golden Ratio antennae are based on the square root of phi, that is the inner ring is multiplied by the square root of phi to get the next ring, or inversely the outer ring is multiplied by one over the square root of phi to get the next inner, etc. This provides the Golden Ratio mathematics (every other ring is phi related) as well as the increased capacitive coupling needed for a functional antennae. Patrick also reports that he has a MWO unit built by Lakhovsky's son in Paris. It is a little box with a one tube white noise generator and it has a multi-stranded cable which wraps around the body. It shows the evolution of Lakhovsky's device has taken a different turn among those who actually knew what he was doing. We're looking forward to more info on this recent development.

Also, Klark Kent (of Super Science, Box 392, Dayton OH 45409) just called to say that he has completed a run of Golden Ratio antennae from the original B.S.R.F. artwork. These are double sided (with inverse gap strips to simulate the ball capacitance on the original tube antennae on back) gold plated and are available from Klark for \$100 each. (These antennae produce effects on plants without any electrical excitation. Many experiments can be done and the results quantified with the protocol listed a few letters back.)

There is no doubt that there is a new phase of MWO research being undertaken. For 25 years people built Beck's model, with many people claiming beneficial results, and others experiencing nothing — but no one keeping track of results for evaluation. Thanks to Bob Beck's schematic (published by B.S.R.F. in 1963) the idea was kept alive and now people will have many ideas to choose from in their search for measurable effects from energies ranging from the gross electrical to the fine etheric. Thanks to everyone who has interacted on this ongoing aspect of our researches!

EVEN MORE LAKHOVSKY STUFF

**Some time ago I bought your excellent handbook of the Lakhovsky Multi Wave Oscillator and due to pressure of other things have only just found time to read it. Interesting because it parallels some research done by myself and friends, or should I say we duplicated some of the original. This was only to be expected as the entire principle is so outrageously simple, too simple for establishment minds to comprehend.

I should like to offer a few ideas which might be of interest and in return I would be grateful for some additional information.

I helped develop the Betatron now sold by All-Source Systems, PO Box 596, Morton, WA 98356. The Betatron uses a TV Flyback transformer and is very similar to the Master Violet Ray devices. The nicest feature is that

the applicator is an ordinary clear light bulb. Even a burnt out one will do. There are differences; some makes of bulb will not work at all, perhaps due to different gas fillings. The Betatron can also be used with the Lakhovsky concentric antenna with spectacular results. This of course has been done in the book's articles although as far as I know it was not actually copied, but was an obvious choice of experiment.

I have tried out an improvement which I did not see in the Handbook or anywhere else, perhaps you will be interested. The "Standard circuit whilst apparently covering a very wide range of frequencies, must, because of its inherent fixed inductance and capacitance have its own natural fundamental frequency. Our Betatron is around 21 Kilocycles (I refuse to use the cumbersome,

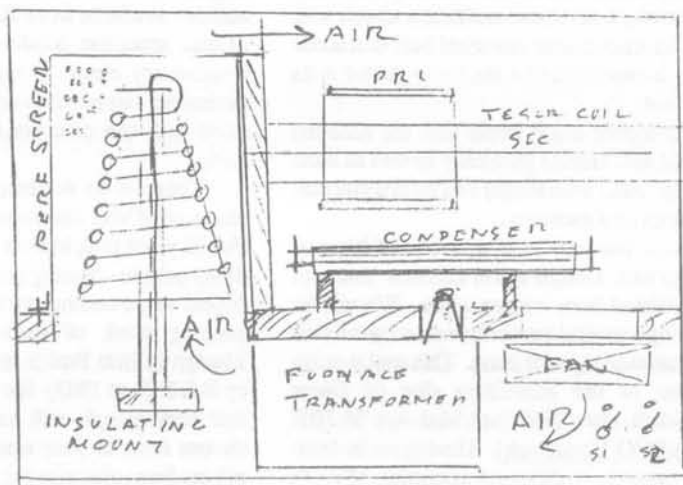
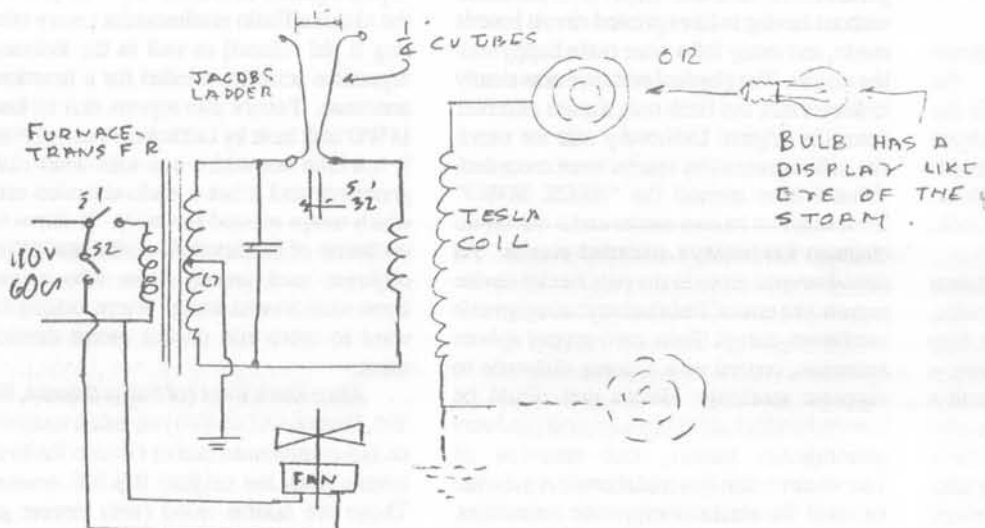
meaningless term Kilo Hertz), and other units seem to be basically tuned to one fundamental even though they do stray and produce an almost infinite range of harmonics.

My first improvement is to substitute a "Jacob's Ladder" for the spark gap. This consists of two 1/4" copper tubes spaced 5/32" apart at the bottom and tapering outwards to 1" at the top then abruptly turning out at 1" radius. The spark travels up the ladder from bottom to top and is extinguished by the sudden increase of gap, then begins again at the bottom. This sequence takes place at about 2 second intervals. The whole point of this is, as the spark progresses up the ladder, the length of the tuned circuit is progressively increased, then suddenly decreased again ditto repeat. As the ladder is about 9" long the length of the tuned primary of the Tesla coil is progressively made 18" longer, then back to its original length. Thereby resonating at infinite numbers of frequencies within its range and delivering virtually the same power at all those frequencies.

A further improvement on this feature is to make the ladder a Spiral Staircase by using a solid rigid central electrode, say a 1/2" copper tube and the spiral be wound in an ever increasing diameter on the outside, the start being about 5/32" gap and vertical to begin with.

Alternatively the spiral can be the inside element wound on a porcelain former such as is used in radiant "bowl" heaters with a plain copper tube surrounding it or perhaps a perforated tube as used in decorative lighting fixtures. The spark winds its way around the spiral staircase and alters the frequency accordingly. The Spiral Staircase provides a much longer path and more variation in frequency range. I have not yet perfected this and ruined a few porcelain formers in the process. It requires some exact progressive increases in the travelling spark gap but there are no serious obstacles.

Both the Jacobs Ladder and the Spiral Staircase have the advantage of easily cooling the spark gap. We had experienced problems due to overheating of the electrodes in a fixed gap, even spark plugs transmitted the heat to other parts and carbonized insulation. The addition of a cooling fan (the low power



UNIT MOUNTED IN TYPEWRITER CASE WITH ACRYLIC FRONT COVER TO DIRECT AIR FLOW

kind used in computers) provides a current of air which accelerated the progress of the spark up the Jacobs Ladder and more importantly up the Spiral Staircase. The spark is sometimes reluctant to leave its easy path at the base of the ladder and even more reluctant to wend its winding way up the coil, but the air flow does the trick and keeps everything cool.

The fan also helps remove Ozone from the enclosure. Ozone has the delightful habit of attacking insulation. It has also been blamed for respiratory illnesses. I am skeptical of the latter as I have breathed plenty of Ozone and found it exhilarating.

Master Violet Ray even included an Ozone Inhaler with its de-luxe model!!!, recommended for asthma, bronchitis etc. What's more M.D.s used it on their patients. Certainly Ozone is about the only thing which will quickly digest Carbon Monoxide in a hurry and it deodorizes a room when the cat has misbehaved.

The Betatron and Lakhovsky machine both can be used to destroy troublesome warts and moles, by simply wrapping a wire around the electrode and applying the point of the wire to the offending growth. I had some troublesome warts removed in this way by a Dermatologist. It was not until I got involved with this project that I realized the Dermatologist was using a Lakhovsky device.

He anesthetized the area first but I have since got rid of warts and moles without this. It caused some "Discomfort" which as any mother knows is worse than mere pain, but it was tolerable.

I hope the foregoing will be useful and will not be in the least surprised it has not already been done, but I would like to know what you think of it.

Regarding Spark Coils. I recently found at the local Flea Market, a small spark coil about 3 1/2" overall length 2" dia. with a sturdy vibrator assembly and a turret mounted sideways. It looked like a small steam boiler in fact. It is labelled "Coil, Booster, Battery Operated. Type C1, (24 Volts DC) Spec. #94-32182 Serial #96082) order #A,C 27073. Eclipse Aviation Bendix, N.J. Division of Bendix Corp.

I don't know what it is for but on 12 volts it delivers a lively 3/8" spark. The absence of a Zip Code suggests it is fairly old, but this is the ideal driver for a compact tesla coil. I do not know if it contains condensers but I added some anyway. The adjusting screw has a click stop adjustment. Have you come across one of these? It also works well on 6 volts which is just as well as it draws a lot of juice and 8 D cells won't fire it.

Now a request for information about Lakhovsky Treatment and parts. Please Please. On my knees!! Where can I obtain High Voltage Capacitors as used in the Lakhovsky Machine????? I have tried all the surplus stores I know of in this area but the highest voltage they have is 450. I recently paid over 50\$ for a 660 volt one for a 12 v trailer power supply and that was ordered specially from New York. H E L P !!! I even tried making one from instructions in the Boy Electrician, a Sunday School prize from the 1930s. I used Acrylic 1/8" dielectrics instead of glass. They worked well for a time but soon tracked and failed. I don't fancy using glass plates anyway but I desperately need some H V Capacitors at less than Pentagon prices.

Re Treatments. One of the contributors to the Handbook reports that treatment with the Lakhovsky Machine resulted in the disappearance of underarm hair. (The report of decreasing underarm hair is from the Nov. 1968 Journal of Borderland Research by Mrs. E.H., Piqua, Ohio.) This is very interesting as I am a heavy construction worker, and after a hard day at the office I like to drop in for a cool beer and fraternize with nice hot ladies. However, underarm odor which results from my daily exertion and defies Right Guard AFTER for 2 hours, is a Repellant. I did find that shaving the offending fuzz helped a lot. Tearing it out by the roots was even better; it seemed to de-activate the sweat glands.

After I sprained my shoulder I used the Betatron all around the joint and have noticed that underarm hair now grows much more slowly, and I have much less trouble with B.O. I used the Betatron frequently and the Ozone removes any residual stink...

NOW the Big question. Has anyone succeeded in using the Lakhovsky machine to stimulate hair growth??? I have hair like Yul Brynner. Maybe some folks think its sexy but I find it repulsive and worst of all it makes me look and felt 20 years older at least without a hat. It seems to me that the machine could well be used to rejuvenate hair cells since it can reverse most other degenerative processes. Its a strange thing that men who are short on top have an overabundance of superfluous body hair in places where it is utterly wasted.

Has anyone done any research on this subject with the Lakhovsky Machine??? If so Please let me know. I will be most grateful for any information and will of course inform you of the results of my own experiments.

It occurs to me that such a phenomenon could well dispense with the daily chore of shaving and make Gillette obsolete. I am

forever disgusted that such a lot of life force is wasted growing hair on my face instead of where it belongs, On Top! Would be most grateful for your ideas.

I remember the Master Violet ray being demonstrated in a department store in the 1930s, I must have been about 7 years old. My mother who was with me watched the demonstration and I, of course, was fascinated. I said, "Oh Mom do buy one, it's just what you need for your rheumatism". Mother replied, "Oh no, You just want it to play with". How right she was. Well, in spite of all the quack devices which come and go, Lakhovsky in all his forms is still with us. That's recommendation enough. The AMA persecution of course confirms its effectiveness.

A Naturopathic Doctor saw me wearing a copper bracelet. He was treating me for arthritis, effectively with electro therapy etc. and asked if I really believed in the copper. I said "No", then he said "Why wear it?" "Because it works." He laughed and said, "Look at that green stain on your wrist. That's copper salts and they are being ingested; maybe that's how it works, you might have a copper deficiency, well it's cheaper than pills."

Very Sincerely,
K.V.A.R., Lynnwood, WA

First off, without further ado, let me congratulate you on taking a stand on refusing to use the word Hertz to designate cycles per second. Why use mumbo-jumbo designators when simple English will do. Tesla said that the acceptance of the Hertzian theory would come to be seen by future generations as a great aberration of the scientific mind. Of course Tesla is probably rolling in his grave (at 3600 rpm?) at the modern etherless explanations of electricity. He, and others of his day, regarded the (transverse) Hertzian waves as the "waste" put off by coils. The Tesla (longitudinal) wireless system would have been worldwide (including radio and power), with the transverse waves engineered to a minimum, whereas the radio we have today, with the transverse waves engineered to a peak, fades out as one goes around a hill or a decent distance from the emitting source. This is dealt with much more specifically in THE THEORY OF WIRELESS POWER by Eric Dollard (from BSRF).

Regarding use of the Jacobs Ladder as a spark gap, that is an interesting idea and thanks for sending it in. As far as your hair growth problems go, perhaps our other readers have further comments. You have provided a lot of food for thought, thanks!

HIGH VOLTAGE SOURCES:

**Re: Nov/Dec Journal and inquiry of Stephen M. Nair, Kodiak AK. Capacitor 6KV (6000V) .0047 μ F (which is the standard value, not .0051) available (\$4.90) from: Antique Electronic Supply, 6221 S. Maple Ave., Tempe, Arizona 85283. (602) 820-5411.

Dr. Ali M. Allmaker
Williamstown, MA

**Source for high voltage equipment: Plastic Capacitors, Inc., 2623 N. Pulaski Rd., Chicago IL 60639-2190. Write for catalog (Dealer for above is Newark Electronics). Also recommended is Homemade Lightning: Creative Experiments in Electricity by R.A. Ford, ISBN 0-8306-3576-9, TAB Books, Blue Ridge Summit, PA 17294-0850. Can be ordered through your bookstore.

Simplified Tech Service
PO Box 2140A
Champaign IL 61825

**In the Nov-Dec 90 issue Stephen Nair of Alaska asks about a 6Kv .005 uf capacitor. Radio Shack sells a 2Kv .01 capacitor #272-160. Three connected in series will be 6Kv .003 uf, another 3 connected in parallel across the first three will be 6Kv .006 uf. Six of these costs about \$3.

Regarding the MWO, when Hieronymus lived near me in Ft. Lauderdale I asked him about the MWO. He didn't recommend it because the broad spectrum of frequencies had both beneficial and harmful frequencies which could not be separated.

Ron Brennen
Weirsdale Florida

Thanks for all the input on where to get HV capacitors. Also, thanks Ron, for Hieronymus' viewpoint. With the Beck style MWOs I would agree. A mass of radio frequency noise is generated. With Lakhovsky's original units driving structured antennae one could produce multiple wavelengths of a more refined nature. We don't recommend the MWO to anyone, that is not our purpose. This Journal acts as a forum to ideas such as these to be explored, and the MWO refuses to go away, rather interest is growing and it is time we closely examine the field. Read on...

THE BECK MWO

**My MWO is a Beck model. It has successfully killed a skin cancer on the back of my hand. Yet I am wondering about its resonator. There seems to be no action, it's of no use and is as if dead. I did not realize that we are having trouble establishing a real Georges

Lakhovsky MWO. This [enclosed] information from Europe may help clear up our need. Rev. Dorge Moore
Bryte, California

A good puzzle truly has many pieces, so thanks for your experiences. I never said that the Beck MWOs didn't work, but that they are not the same as Lakhovsky built. The enclosed ad was for radionic and related equipment including MWOs from Radionic Instrumentation & Research, Dorset, England. It may be that this is the radionic type of MWO originally sold by Copen Labs. I honestly don't know a thing about these MWOs, so any info would be greatly appreciated - especially a schematic. Years ago I had heard them spoken of disparagingly by people who claimed that they wouldn't work because there wasn't enough power, an argument I never bought. It would seem that the more subtle and refined the energy the more beneficial it is to the human organism. The field is still open for new ideas and fresh impulses...

COSMIC PULSE

**I miss Peter Lindemann's FIZIX KORNER column. I hope the reason is something simple and recoverable like burn-out overload, and not politics. It would be good to see a follow up on the Messiah Machine "project of the year" proposed last January.

Recently I finally finished reading *Cosmic Pulse*. Definitely a headfull, it certainly warrants rereading. His insights are valuable inasmuch as now for the first time I feel like some of the clamor around the UFO phenomena has been rendered into a context - perhaps a paradigm - that is understandable, and grounded in Life processes.

Ron Stinnett
Santa Rosa, CA

Yeah, I miss Peter's column as well, he's a good writer. Peter says he will start up again when he can regain the physical and psychic space needed to work on it. I can say ditto for the VIEW FROM THE BORDERLANDS column. I hope to soon get that revived in order to keep stirring the pot. I got into the field to research and write and have instead evolved into an administrator and hopefully will evolve through that back to research, experimentation and writing.

As for the Messiah Machine project, the SYNERGY EFFECT article in this issue should provide some fresh input to work with in that direction.

Thanks also for the *Cosmic Pulse* comments. They just keep rolling in. Read on...

**Thank you very much for the data in your book THE COSMIC PULSE OF LIFE! It was such a treat to receive the understanding you have gathered with your research. I too, have a desire to participate with life and fathom its secrets. Your book has helped me to get my attention out of the dialectical materialist's gutter and into the spiritual life I share with the other beings in this universe. When I was a kid the Earth was full of magic. Then I grew up and went to engineering college and I lost the magic. But now, after reading your book the magic is back! It's wonderful. Thanks so much!
F.A., Hollywood CA

**If you have a large bump of curiosity, an appreciation of far out Science, and a need to know what life is all about, get this book and read it! and read it! and read it! You will find the answers to your questions about UFO's, Air Elementals, life-energies, and more...

From the review in
Hieronymus Energy Council Journal
Advanced Sciences R&D
P.O. Box 109
Lakemont GA 30552

Thanks for your comments. The Hieronymus Journal is the only review that has been printed out of around 50 copies of CPOL sent out to UFO and "New Age" type publications! At least a couple folks are on the ball out there. In general, the UFO field won't touch it, even though Trevor's original infrared photography (in 1958!) of UFOs has been independently verified by a number of people worldwide, with this revised edition showing some dramatic shots of biological UFOs. But biological UFOs and ether ships don't fit the cherished notions currently held in the field, mechanistic stories of grey aliens, making conspiratorial deals with the government and flinging their bodies through space in fancy tin-cans using element 115 (Unobtainium) as fuel, have the day with many UFO researchers. (Anyone wanting to see the first "grey" should look into Aleister Crowley's writings - around the turn of the century he contacted an extraterrestrial and interdimensional entity named LAM whose picture looks suspiciously like a "grey"!)

Cosmic Pulse is subtitled *The Revolutionary Biological Energy behind UFOs*. To a linear, mechanistic world view element 115 would seem logical, just as flinging through space in a metal shell would. But experiments such those performed by Lilly Kolisko where she showed that gold won't crystallize when the moon covers the sun, and Reich's measurement of pulsating atmospheric energy

open doorways to a non-linear, living world. Once people grasp that etheric energy is outside the electro-magnetic spectrum they will begin to understand the source and power behind UFOs.

DR. HENRY COANDA

**You will find attached an illustration I made to comment on the letter from Associate Dennis Kier, Carson, CA (Sept/Oct 1990 Journal); what he states in the letter concerning the French government's monopoly on salt and the Coanda-made device is correct. The monopoly still is in force today (so much for "Liberte, Egalite et Fraternite", which DOES NOT APPLY to profits!) and the device was smashed as Associate Kier told; this I verified from French sources here. However some mistakes crept into the data, as related to Coanda: Dr. Enricu Coanda was born in Bucharest, Romania, on June 7th, 1886 and died at the same place on November 25th, 1972.

He first studied at the Charlottenberg Polytechnical Institute and the Liege University. He graduated with the first promotion of the Paris-based Ecole Aeronautique Superieure in 1910. It was in 1910 that Dr. Coanda flew a kind of ground effect machine (GEM), a jet-powered machine employing compressed air for better burning of fuel. His device flew all right some meters from the ground but some air-deflectors he placed attracted the flames towards the wooden hull of the machine. He made his first flight at Issy-les Moulineux and coursed normally until he

realised the flames of the exhaust could generate the burning of his machine, in an attempt to avoid this he cleared over the Paris Wall and crashed afterwards. A Coanda-made jet-plane was exhibited in the 1910 Paris Salon.

Coanda worked during WWI at Bristol airplane-firm (Filton, England) and had been actively related to most aviation pioneers (Bleriot, Eiffel, Ferber, Archdeacon, Painleve, von Karman, etc.). In 1932 he discovered and began earnestly to work on the effect that carries nowadays his name. As Romania became an ally to Nazi Germany, Coanda was jailed by the Gestapo for he flatly refused to work for Hitler (and, obviously, he was too valuable to be killed outright; they expected to break him). It is not illogical to think that his papers and notes may have ended in the group of people working with Viktor and Walter Schauburger.

Coanda travelled in 1947, 1951 and 1956 to the USA, to lecture and has some 33 patents granted at the US Patent Office (I could not find their numbers, unfortunately).

When he died he was advisor to the Romanian communist government, with the rank of Minister (or Secretary, as it is called in the USA), and also a member of the Bucharest Academy of Sciences.

The attached drawing is a personal illustration on Coanda's device to obtain non-salty water: A parabolic mirror focuses sunlight upon a place where there is sea-water and the vapors are collected by a truncated cone leading to a cylinder. The cylinder ends

in a beak leading into a water collector, and the upper portion of the device is protected and cooled by a shade. In this design vapor can't but go upwards and beak-wards to end as water in the collector.

Of course, this drawing is just a way to exemplify the idea and no more, it does need some elaboration (this will, or course, depend on the technology available to the experimenter/s).

In 1987, after failing to find infor-

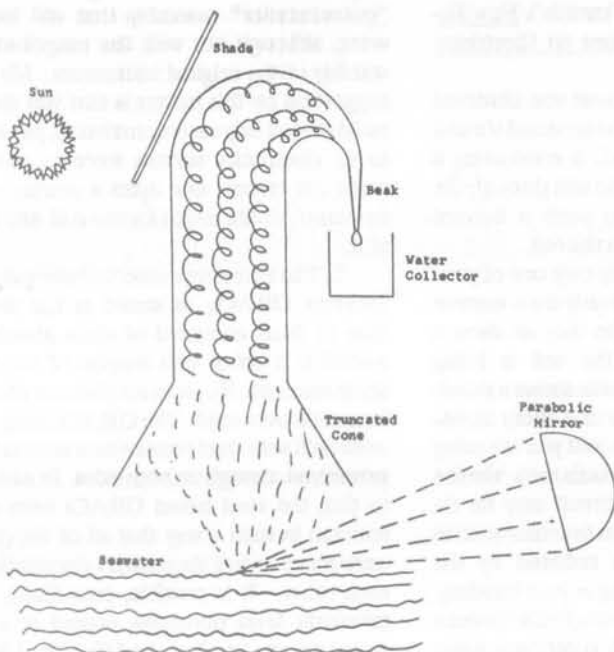
mation about/by Coanda and his works at the Library of the Argentine Air Force (the public library, that is; what they may have in their secret files is another matter), I went to the Romanian Embassy in Buenos Aires city and asked for the address of the Bucharest-based Romanian Aeronautical Institute explaining the reason why. The letter I sent was never answered. Also the search for Coanda's written works in local libraries turned out to be another failure.

What, however, appeared from time to time in some articles on aerodynamics at different magazines of the AAF Library were scant references to the Coanda Effect together with a brief definition of what it is. Nothing is stated about his other interests (water-desal, life-extension, etc.) and works. Jorge Resines, Contributing Editor Buenos Aires, Argentina

Thanks Jorge, read on....

**Re: p.26, Sept.-Oct. 1990 JBS, Dennis Kier's letter discussing Henri Coanda's desalinating solar silo water distiller, and your response soliciting more information - Walter Baumgartner probably has more on this. Why - in spite of references in the literature by Pat Flanagan and Walter Baumgartner to Henri Coanda as the "father of fluid dynamics" - can one find not one reference nor mention of Coanda's name in numerous textbooks on the subject on the shelves of Sonoma State university library?

From: Causes Newsletter (March 1988) /Energy Unlimited, PO Box 493, Magdalena, NM 87825. "Another application of the Coanda Effect was applied when Coanda designed a solar silo which should be of great interest to solar Engineers today who are in a quandary to advance solar collectors to be potent and efficient enough to make solar power feasible. A silo-shaped affair, the walls of which are made up of mirrors to reflect the sun's rays in a vortexian fashion, proved to be most efficient as an evaporator. When the silo is centered just right on its axis, the sun is bounced from mirror to mirror so often that it becomes hundreds of suns, and what one hot sun can evaporate from a given body of water, the silo can do a thousand times over. When appropriately mounted over a tidal pool, the bottom clearing the water by several inches, the silo heats the air within itself to blast furnace intensity. The hot air, behaving normally, rises, and because it is superheated hot air, it rises with a volcanic rush. The rest of the performance does not behave in so normal a fashion. To replace the hot air rushing out of the top, cold air is drawn in at



the bottom. That is the point to remember. The air that is drawn over the surface of the water and up into the silo is plain, ordinary cold air, just like all the rest of the air outside the silo. Not until it gets well along on its upward journey does it become heated enough to support abnormal amounts of moisture. Yet, by this time it is loaded, and becomes more so the higher and hotter it gets. It is super-saturated by the time it reaches the top where it is drawn off by fans to the condenser. The amount of water that then flows from the condenser is a source of astonishment to all who have seen it. The tidal water, in the meantime, does not even change temperature, and were it not for the accumulation of salt beneath the silo, one could not believe a concentrated evaporation was taking place at all."

RADIONIC RESEARCHES

**Referring to Vol XLVI, No. 5, Sept-Oct issue, Bulletin Board - Radionic Researches, Dale Shultz, San Bernadino, CA. Dear Dale, On your state of mind-pendulum right-left brain sphere and stuff, it doesn't really matter what state your mind is in. A simple method of dowsing come divining which I've been using for years that brings total success magically, socially or just day to day is; ask the question to yourself, first one side then the other. One side/question will create a neuro biological vibration-feeling within yourself. This is the ego-conscious - it's wrong! Ask the other side question and it will always be empty, this is the sub-conscious come Conscious True Will of your Divine Self - the way to truth is through silence/perception thou true will never lies. No thing is it. If this is of any help to you I'm happy.

Quentin
Sydney, Australia

THE COIL/ORAC EFFECT

**To Mr. Nicholas A. Reiter,

In your article "THE COIL/ORAC EFFECT" appearing on page 6 of the September-October issue, you reported some very interesting phenomena, but I do not know how to duplicate your experiments.

You mentioned that around March 1989 the Coil/ORAC effect began to diminish, and eventually "went dead", and that the effect later worked with a newly constructed ORAC. This led me to wonder if the construction of your ORACs includes a battery.

The inclusion of a battery may or may not be intentional. Some of the earliest known batteries were Voltaic piles (Alessandro Volta, *Phil. Trans.* (1800) p. 403). For example, if the sheet steel, in your sheet steel

and fibre sheet ORAC, were Galvanized on one side only or if the two sides were plated dissimilarly; then ten layers of such construction using fibre sheet which is not completely dry would make a ten cell battery. If the walls of your box are made of such batteries, then there may be voltage differences between some pairs of metal surfaces of the box. In attempting to reproduce your experiments, are such voltage differences to be included? Should I check with a volt meter to make sure that there is such a voltage difference or should I check to make sure that there is not?

Effects similar to some of the effects you observed should be expected if two or more of the inside walls of the box are not at the same electrical potential; especially if the uninsulated coil does not have continuity from one Galvanometer lead to the other. In that event the current that normally flows through the moist air to discharge the battery would find a lower resistance through the Galvanometer. If on the other hand, the resistance of the coil is much lower than that of the Galvanometer then most of this steady state current would flow through the coil.

Another of your observations would be consistent with the conjecture that battery action is at work. Uninsulated wire provides much more contact area between the meter circuit and the conductive fluid connecting it to the conjectured battery, as contrasted with insulated wire for which the contact area is only the exposed tips and clips. In this case the conductive fluid is the same one that limits the shelf life of batteries and ordinarily slowly discharges the charged bodies it surrounds: non-dry air. (Benjamin Franklin's *New Experiments and Observations on Electricity*, letter vii, 1751)

The initial higher current you observed when moving the coil is to be expected if moist air in and near the ORAC is conducting a current because moving the coil through the magnetic field caused by such a current would induce a reaction in the coil.

I am puzzled as to why only one of your Galvanometers shows a steady state current and the other do not. Do they all show a transient current while the coil is being moved? If one Galvanometer shows a steady state current only because of a sticky movement, then I should expect that you are using a low resistance coil (most coils are). On the other hand, your meter circuit may be responding to an AC signal on the ether such as sixty second alternations radiated by the power lines or by the wiring in your building. This could happen if there are joints between dissimilar materials which contribute some rectifier action to the circuit however slight.

(I personally use a very high input resistance voltmeter which is ordinarily pegged by 60 cycle noise if I switch it to measure AC without first connecting both test leads or switching to a high voltage range.) In that case, perhaps it does improve the sensitivity of the circuit to such signals if the Galvanometer coil is not wrapped around a piece of aluminum. The eddy currents in the metal coil form deplete some of the resonant energy received by the circuit by converting it to heat.

In summary, there may be some mysterious explanation for your results and/or some of your results may be due to previously unobserved phenomena. I am curious as to the details of how your apparatus and procedures can be duplicated, and as to whether or not your experiment could be improved to separate the effects of causes that are well known from any effects which may be due to any newly discovered cause.

Richard Willis Wesley Allen
Electronics Technician
San Luis Obispo, CA

RESPONSE R.W.W. ALLEN

**Thank you for your interest in the Coil/ORAC Effect. I found your letter scholarly and constructive. Please allow me to answer your questions on a paragraph by paragraph basis.

1. Duplication of the effect will depend mainly on your own ingenuity. In my report, I gave a complete description of the original coil, and as reasonable a description as possible of the ORACs and galvanometer. A diagram was included showing a homemade "galvanometer" assembly that did indeed work, although not with the magnitude or stability of the original instrument. My only suggestion on this matter is that you should build several orgone accumulators, pay a visit to an electronics surplus store to procure some old meters, tear apart a marine radio antenna (private band) for the coil, and have at it.

2. The Effect was observed using several different ORACs, as stated in the article. One of these consisted of sheet aluminum wound in a spiral with lengths of the fibre sheet material. No separate plates or dissimilar metals were used. The ORACs using steel were built with steel plates which were indeed galvanized, though on both sides. In addition to this, the steel based ORACs were constructed in such a way that all of the plates were more or less shortened (electrically) to each other. It is possible, even likely, that microvolt level potentials existed at some region on any or all of the ORACs. I freely admit that I did not check this possibility.

However, given the construction of the ORACs, I cannot conceive of any galvanic potentials beyond 1 or 2 millivolts having been involved.

3. The DC resistance of the galvanometer's movement coil was measured at 5.6 ohms. The resistance of the original coil inserted into the ORAC was negligible, at least by any meter I was able to check it with. At no point in any of the experiments was there a bare metal to bare metal contact between the ORAC and the coil inserted into it.

4. The possibility of the air in and around the ORAC being a conductive fluid is another idea that I did not explore. The CRC Handbook of Chemistry and Physics (65th edition, page F-158) lists a value for the resistivity of clear air (standard) at sea level. This value is given as 4×10^{13} ohms-meter. From this value, and the level of current which I observed, one might be able to somehow calculate the voltage which would have to be produced by the ORAC and coil to explain the effect. Obviously, atmospheric humidity would reduce the figure of 4×10^{13} considerably.

I'll let you do the math. My opinion is that even during periods of very high humidity, the resistance of the air would have been far too high to conduct (electrically) currents of the magnitude I observed.

5. None of the commercial meters I tried, other than the antique galvanometer, registered anything at all; even while the inserted coil was in motion or transition.

6. I spent quite some time wondering about the possibility of RF signals or AC signals being rectified somehow, and showing up in the arrangement. I cannot rule it out as a possibility. The back-EMF dampening of the galvanometer movement undoubtedly would play a part in this scenario also. Yet I find it difficult to blame movement dampening for the EXTREME slowness of the current changes involved, including polarity reversal when the coil was flipped over.

7. I fear that I can give you no other direct assistance with this matter. It is up to you to experiment with this effect and try whatever controls and arrangements you deem appropriate. None of the original equipment used in my experimental work with this is in my possession any longer. I gave the coil and galvanometer away; the ORACs were dismantled and destroyed. I have since moved on to other interests, and do not intend to pursue the Effect any more.

In a nutshell; I observed an unusual effect that I believed, and still believe, to be an orgone energy related phenomenon. I

worked with it for a while, showed it to a few people, and tried to discover its parameters given the crude equipment at my disposal. I compiled what I saw into a report. This you have read. Any further development is up to you.

Sincerely,
Nick Reiter

HARMONIC 33

**I am trying to locate a book by Bruce Cathie called Harmonic 33. Can you supply me with an address where I can order it?
K.B., Durango CO

Harmonic 33 is long out of print, but Bruce Cathie's in print books are still available through him at 158 Shaw Road, Oratia, Auckland, New Zealand.

JUPITEREAN INFLUENCES

**Re: JUPITER & TIN, Nov-Dec 1990 JBR. Where can I obtain a piece of pure tin to carry in my pocket?
G.K., Los Angeles, CA.

Good question, when we find out we'll list it in this column. Probably a chemical supply house, but haven't had time to check yet by press time....

RECEIVED

* ASTRONOMY by Rudolf Steiner, translated by Rick Mansell, transcribed and edited by Fred M. Mathews, published by The Rudolf Steiner Research Foundation, Redondo Beach CA. This is Steiner's Course of 18 Lectures on the Relationship of the Diverse Branches of Natural Science to Astronomy, Stuttgart, 1921. The book is \$25 + 2.50 P&H. Cassette tapes (18) for \$89.95, or \$100pp for the set. This should be a basic text for anyone interested in the structure of the universe or the UFO mystery. The universe is constructed a bit different than the modern scientific paradigm allows. The Steiner Research Foundation has about 1500 lectures on tape of spiritual scientific material being released through their WINDOWS INTO THE SPIRITUAL program. Send a few bucks for a listing. If you are interested in any area of the borderland sciences you certainly will find something that will stimulate your research here.

* HOW TO GENERATE ELECTRICITY WITHOUT CONSUMING ANY FUEL - The N-Machine - Space Power Generator, a collection of papers by Bruce DePalma and Paramahansa Tewari, published by FOR

THE PEOPLE, P.O. Box 101, Cedar Key Florida 32625, (904) 397-4145, \$10 + 2 P&H. Interest in non-conventional electrical generation is snowballing. Both Drs. DePalma and Tewari have been building generators that defy conventional electrical concepts. Glad to see the alternative sciences gaining momentum.

* TOOLS FOR EXPLORATION, 4286 Redwood Highway, Suite C, San Raphael, CA 94903, 1-800-456-9887. Over 150 products, books, tapes for enhancing energy, consciousness and health. An excellent catalog containing many of the latest exploration devices in the borderland field, but also the source for what may be the best device of all, BIOCIRCUITS!

* PLANETARY PLAYTHINGS, PO Box 66, Boulder Creek, CA 95006, 1-800-372-3100. Catalog of books, tapes, energy amplifiers, pendulums, wands, pi-ray coffers and other subtle energy research items. They send us a review copy of their "Heart Zones" cassette for stress relief. Produced for maximum stress relief. Check it out.....

* PLANETARY ASSOCIATION FOR CLEAN ENERGY, INC., Newsletter Vol. 6, #1, 100 Bronson Avenue, Suite 1001, Ottawa, Ontario K1R 6G8, Canada, (613) 236-6265. Published at least 4 times per volume. Subscription \$35 U.S., Membership \$45 ordinary. Membership accesses to Association's network, voting privileges and price discount for publications.

* NEWS RELEASE: Biomagnetics International, Inc., 2301 Park Ave, Suite 102, Orange Park, Florida 32073 (Executive Offices). Bio-Magnetics Systems, Inc., 240 King Blvd., Newark, N.J. 07102 (Enterprise Development Center, New Jersey Institute of Technology).

The September, 1990 issue, JOURNAL OF THE NATIONAL MEDICAL ASSOCIATION, published a scientific medical paper entitled, "EVOLVING PERSPECTIVES ON THE EXPOSURE RISKS FROM MAGNETIC FIELDS". Included in the paper are investigations on biological effects of magnetic fields in arresting the growth of cancer cells. Universities and our organizational companies are continuing further research on cancers as well as other medical and environmental problems. Our cancer instrumentation has been verified as being 100% effective in 96 hours against lung cancer. With the assistance of governmental and private funds we hope to bring to the

general public as soon as possible for their use and application this promising breakthrough in the arrest and killing of cancer cells that is non-invasive and non-toxic. This technology of using magnetic directional fields would appear to combine the best current features of therapy with no harm to healthy cells. Biomagnetics Systems, Inc., located at the Enterprise Development Center, New Jersey Institute of Technology, Newark, New Jersey, in a joint venture with this company and the A. Roy Davis Research Laboratory, is continuing research and development of this technology in medical, agricultural and industrial applications.

* MEGA MIND, 4013 Silver SE, Albuquerque, NM 87108, (800) 766-4544 and (505) 268-0302. Catalog of state-of-the-art computerized relaxation/meditation devices, tapes and books. Well worth getting this catalog to see what is happening in the "brain machine" research world.

CONTACTS

** CADMUS LIBRARY, P.O. Box 562, Wilton NH 03086, (603) 654-2729, is a mail order library of books by and about Rudolf Steiner and his work and its offshoots (which covers a lot of area). It is about to acquire several hundred more books "especially rich in bio-dynamic literature". The current listing contains many excellent books. Librarians are Dawn & Joel Wendt. Joel has revealed himself as the anonymous author of "There is no Free Energy" in the Sept-Oct 90 JBR, and he has provided further writings, on anti-gravity and related matters, which will be forthcoming.

* PRISCILLA DEWEY - CHROMOCHEMISTRY INSTITUTE, 1135 Esmeralda Dr., Glendale CA 91207 (818) 240-7890. Conducts lectures, seminars and workshops on the scientific work of Dr. Oscar Brunler and his wife. Brunler developed an instrument, the Biometre, which measures the unique wave-length of radiation emitted by each person's brain. He also was an early pioneer of Color Therapy in England. His wife, Dr. Grace Calver Brunler, is considered as one of the grandmothers of psychiatry. She used color in her practice. Priscilla has produced a Memorial Edition of the Radiation Reporter which was the official publication of the late Drs. Brunlers' Radiation Research Fellowship containing past articles of historical and scientific importance. It is \$8 plus \$3 P&H. Also, two audio tapes on this work are available, BRAIN RADIANTS and THE

BRUNLER COLOR METHOD, \$15/each plus \$3 P&H.

* BOOKS WANTED Any info on George Van Tassel's books "I Ride In A Flying Saucer", "Proceedings of the College of Universal Wisdom", "Religion & Science Merged" later retitled "Council of Seven Lights", and on info for his caduceus coils and other technology as quoted in "Tapping Zero Point Energy", etc., would be most appreciated. Marc Williams, 8500 Rainbow Bridge Lane, Springfield, VA 22153

* I am looking for someone in the McHenry County, IL area who is experimenting with radionics. I would like to establish a Radionics research group. Dave Whaley, 9 Quail Run, Lake in The Hills, IL 60102

* I am actively researching the "Reticular Energy" concept published by Dr. Paul Nogier of Gerner Institute in France. I need to trace this concept down. Is this in fact a new or different energy? Please run something in the Bulletin Board asking if any readers know about it or are experimenting with it. Horton Nuckols, Box 4143, Huntsville AL 35815.

* Self-Discovery through Sound - Exploratory and Experiential Workshops explore the empowering effects of sound, music & voice on the whole person - physical, mental, emotional and etheric. Damaris Drewry and C.F. Wilson have developed six workshop formats based on the physics and metaphysics of vibration. For more info call (602) 323-9279 or 323-9779, or write Sound Transformations, 2509 N. Campbell #249, Tucson AZ 85719

* BEST BET STOCK REPORT, Box 36759, Charlotte NC 28236, (704) 334-3314. An interesting source for getting in on future technology "penny stock" offerings before they make it big. Products range from advanced new diaper designs (looks like a good growth investment) to advanced energy and anti-viral technologies, much of which should be of prime interest to the Borderlander. 12 monthly issues is \$20.

* ST. GEORGE BOOK SERVICE has been sold to Claude Julien, bookstore owner at the Rudolf Steiner College in Fair Oaks, California. (Our best wishes Claude and to the Melnikers who did an excellent job as publishers and were always a pleasure to deal with!) Just published is DRAWING FROM THE BOOK OF NATURE by Dennis Klocek "A workbook for those wishing to de-

velop their capacity for observation and to artistically apply it to the teaching of science." Send \$2 for current catalog to Saint George Book Service, 9200 Fair Oaks Blvd., Fair Oaks, CA 95628

* LAWSON ELECTRONICS, PO Box 711, Poteet, TX 78065, (512) 742-3587. Offers an assortment of equipment such as Radionic Transmitters, Magnetic/Carbon Pendulum, Crystal-Spark, Alphasync (Electronic Bio-feedback Metronome) and an electronic Hex Shield.

* GLOBAL SCIENCES CONGRESS, Jan. 31 - Feb. 3, 1991. Orlando, Florida. Speakers include: Dan Carlson, Chief Two Trees, Robert Flower, Al Bielek, R.E. McMaster, Jr., Phyllis Atwater, Robert Fridenstine, Zecharia Sitchin, Patricia Rochelle-Diegel, Dr. Juanita Cramer, M.D., Christopher Bird, Bruce DePalma, Lee Ritter, Bill Delp, George Green, Sherry Edwards, Dr. Sarah Hieronymous, Ph.D. and others. Information from: Global Sciences, 3273 E. 119th Place, Thornton, CO 80233, (303) 452-9300.

* National New Age & Truth About UFOs Conference, March 15, 16 & 17, 1991, Clarion Hotel, 2223 El Cajon Blvd., San Diego, California. 23 speakers including Tom Brown, William Hamilton, Bill Cox, Fred Steckling and Michael Lindemann, as well as the highly controversial William Cooper and others. Should be an incredible mixture of fact and fiction, but none-the-less, quite exciting. For info call (212) 713-5976 or (619) 492-8588.

* INTERNATIONAL SOCIETY FOR THE STUDY OF SUBTLE ENERGIES AND ENERGY MEDICINE, 356 Goldco Circle, Golden, CO 80401, (303) 278-2228. The Society is concerned with the study of informational systems and energies that interact with the human psyche and physiology, either enhancing or perturbing healthy homeostasis. This newly formed interdisciplinary society invites you to become a Charter Member. First annual meeting will be held in Colorado from June 21-23, 1991 with related workshops to be held on June 24 and 25. Interesting to see what they come up with.

* EXPLORING UNEXPLAINED PHENOMENA III, May 17-19 1991, Lincoln, Nebraska is calling for papers, contact: Review Committee, The Fortean Research Center, Box 94627, Lincoln NE 68509. For further information on the conference write the above address.

VITIC POWER RODS

Vitalizing the human energy system with carbon and magnetized iron has been a secret of initiates in Egypt and Tibet for thousands of years. Now you can experience this ancient alchemical secret. VITIC (pronounced vie-tik) has been an ongoing research project of Borderland Sciences for over 45 years and we invite you to participate! The physiological effects of carbon and magnet have been used in our modern times by a select few.

It has been discovered that rods held in the hands of certain Egyptian statues were composed of carbon and lodestone, and were believed to possess magical powers! The famous initiate Count Walewski described the Sun (carbon) Rod and the Moon (magnet) rod. Research has shown that carbon will energize the nervous system when held in the right hand. It will depress it when held in the left. The magnet acts as an opposing polarity which draws the carbon energy through.

Now, for the first time ever, Borderland Sciences is offering a reproduction of the original design used by the ancient priesthoods. Combining ancient alchemical processes with modern scientific technology we have produced a new phase into the Vitic Research Project.

VITIC POWER RODS consist of two rods, approximately 4" long, the Sun Rod comprised of specially hardened carbon coated with copper, and the Moon Rod comprised of zinc plated iron with a permanent magnet inserted in the center. After years of searching we have finally been able to duplicate the original Moon Rod.

If you would like to partake in this project then order your VITIC POWER RODS today! These rods come with instructions and a questionnaire to fill out about your experiences with VITIC POWER.

For a limited time B.S.R.F. members may purchase the VITIC POWER RODS for 1/2 off the tentative retail price of \$99.00. On all orders postmarked before May 1, 1991 the B.S.R.F. members price is \$49.50 plus \$3.00 for shipping. To comply with regulations all magnetic materials are shipped UPS or Parcel Post or Surface Rate so please allow up to 4-6 weeks for delivery, longer overseas.

Borderland Sciences promotes research into VITIC POWER but would like to point out that the VITIC POWER RODS have no proven medical use and should not be considered in lieu of proper medical treatment. Purchase of VITIC POWER RODS implies that the purchaser will use them only for personal research into the subtle effects of Carbon and Magnetized Iron on the human energy system. B.S.R.F. disclaims any responsibility for any usage of this device.

Suggested reading:

VITIC - a compilation of B.S.R.F. documents relating to the Vitic Research Project. Includes ideas on various magnetic arrangements used in research.... \$7.95

A SYSTEM OF CAUCASIAN YOGA by Count Stephan Colona Walewski. The secret yogic practices of the Caucasus Mountains, said by some to be the secret teachings of Gurdjieff! An amazing document detailing how to organize psychic energy in the human system. Contains step-by-step exercises... \$19.95

Add \$2.50 P&H for books, Californians add 6% sales tax.
B.S.R.F., Box 429, Garberville CA 95440

"THROUGH THE VEIL"

With books by Riley Hansard Crabb

PERSONALIZING THE WORLD POWER GRID	\$10.00
THE PLANETARY GRID	\$5.00
THE CURVILINEAR PHILOSOPHY OF BRUCE CATHIE.....	\$7.50
FLYING SAUCERS AND HARMONY WITH NATURE	\$7.50
SKY CRASH - A REVIEW AND ANALYSIS	\$10.00
DEATH DEFYING COMPUTER INTELLIGENCES	\$10.00
THE DRAGON IN THE SEARCH FOR WISDOM	\$5.00
FLYING SAUCERS FROM DECAYING SUNS	\$10.00
A MASTER FROM ANOTHER PLANET	\$10.00

Available from: Riley Hansard Crabb
161A Centreway Road
Orewa, Hibiscus Coast
New Zealand
Phone 0942-66466

For Airmail from New Zealand add \$2.50 per book. NZ banks welcome US, Canadian or Australian personal checks or cash.

MAIL TO:

Subscription Department,
Future Technology Intelligence Report
537 Jones St., Suite 1606, San Francisco, CA 94102

FUTURE TECHNOLOGY INTELLIGENCE REPORT. New! Monthly 8-page newsletter edited by ANTHONY SUTTON (author of NATIONAL SUICIDE + WESTERN TECHNOLOGY AND SOVIET ECONOMIC DEVELOPMENT + 24 other books + editor PHOENIX LETTER)

FTIR predicts future technology using information from a global contact network:

- * Suppressed technology ... underground developments.
 - * Foreign technologies barred by U.S. Government.
 - * Washington political powers force U.S. innovation abroad.
 - * Electric line radiation dooms contemporary power systems.
 - * Scores of free energy projects around the world ...
- Washington says they don't exist!
- * Future medicine = vibrational medicine, end of allopathic medicine.
 - * Future entertainment = holograms, fiber optics, virtual reality.
 - * And more ... Vital information - unobtainable elsewhere - for entrepreneurs, investors, scientists, engineers, designers, architects ... or just curious intelligent lay people.

BORDERLAND JOURNAL readers who send in this subscription card (or a photocopy) receive a 40% discount from the \$250.00 basic rate (12 issues): \$150.00

SEND INFORMATION ON FTIR: SEND SAMPLE ISSUE(S) \$10.00 each (make check payable to SUTTON) April 1990 Free Energy _____ May 1990 Future Medicine _____

NAME _____
ADDRESS _____
CITY _____
STATE/COUNTRY _____
ZIP _____



P.O. BOX 429 ★ GARBERVILLE, CA 95440-0429 ★ U.S.A.

Bulk Rate
U.S. Postage
PAID
Redway CA
Permit 3

FORWARDING AND RETURN
POSTAGE GUARANTEED
ADDRESS CORRECTION REQUESTED

PSYCHICAL PHYSICS

A Scientific Analysis of Dowsing, Radiesthesia and Kindred Divining Phenomena

Professor S.W. Tromp

This richly detailed and impeccably thorough book is an essential manual for anyone interested in detection of the subtle effects of natural and man-made fields of energy upon biological processes such as plants and humans. Tromp scientifically objectifies the effects of Geophysical fields, Magnetic

fields, Atmospheric Ionic currents, Electro-Magnetic waves (from High-Frequency through Infra-red, Visible Light, Ultraviolet, through the X-ray band).

Contents include: Bio-electricity, Electric properties of cells, Sensitivity of organic crystals, Crystallizing solutions, Sensitivity of colloidal substances, Sensitivity to electric fields, Analysis of the electro-magnetic fields in and around living organisms, the histories of *Rhodomancy*, *Radiesthesia* and related divining techniques,

as well as thorough description of the author's personal experiments with these phenomena and the effects upon them of natural and man-made energy fields. Also included is a summary of basic physical conceptions and units of electro-magnetic terminology. Packed with tables, diagrams, and illustrations, the extensive and organized assemblage of the bibliography alone makes this brilliant volume invaluable to anyone interested in further research into this field. 513 pages, velobound regular price is \$39.95. B.S.R.F. Member's price is \$27.95 on all orders postmarked before June 1, 1991.

POSTAGE & HANDLING FOR PSYCHICAL PHYSICS

Books: Add \$2.50/first book, 75¢/additional

Overseas: \$5.00 surface, \$12.00 airmail.

Californians add 6% sales tax

