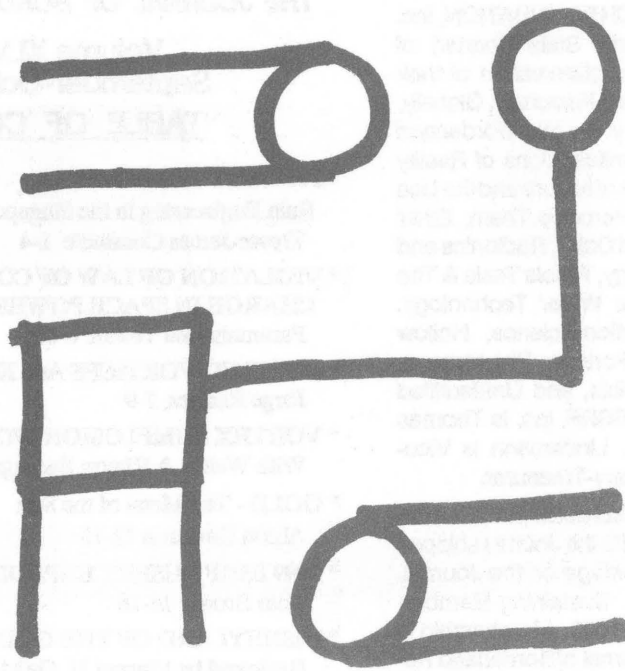


# The Journal of Borderland Research

Volume XLV, No. 5

September-October 1989



*ANASAZI PICTOGRAPH*  
Salt Creek, Canyonlands, Utah

# The Journal of Borderland Research

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## THE JOURNAL OF BORDERLAND RESEARCH

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# Project Tango

## Rain Engineering in the Singapore Dry Season, July 1988

by

Trevor James Constable

Primary energy rain engineering experiments conducted by me off Singapore Island in February of 1988, developed techniques for engineering rain, virtually at will, during most of the Singapore year. Later tests after my departure, carried out by my Singapore associates, fully confirmed the practicability of the February developments. Singapore's dry season, with sharply reduced rainfall in June/July/August, remained an unanswered technical question, with its particular set of conditions. Project TANGO was accordingly organized by our company, as a private research venture, to develop primary energy rain engineering techniques for the dry season in Singapore.

Successful results would be commercially applicable in other equatorial and subtropical environments bedeviled by dry-season difficulties. This U.S.-developed technology has been exported during America's own "Big Dry," as a result of prohibitive liability lawsuit risks within the USA. Concomitant politico-legal problems are less amenable to control than the weather, and make it impossible for the pioneers to place this work in the service of the American people.

The latter two weeks of July were selected for TANGO as roughly coinciding with the middle of the dry season. Certain personages of unquestioned integrity in Singapore were advised in advance of the project. All were externes to our company. The main weather engineering unit, approximately the size of a human head, was placed aboard a 46-foot Hatteras cabin cruiser. Ancillary, fixed-base equipment was installed atop a 31-story building on the southerly shore of Singapore Island. An Apache vertical unit was operated at corporate HQ in the Loyang area, west of Changi airport.

Marine mobile operations commenced 19 July, 1988. By 22 July, 1988, an effective operating method had been worked out. The afternoon radar plots from Changi weather radar show the effects on the region of the primary energy engineering strata-gems employed. The plots between 3:00 pm and 6:00 pm show the diminution of the accretions as the boat headed back from Indonesian waters toward Changi, followed by the rapid rise of rain formations as our "T" technique was employed due east of Singapore Island, between 5:00 pm and 6:00 pm.

The primary energy methods employed are highly proprietary, but earlier disclosures on commercially released videotapes, contain numerous examples of engineered rain formations becoming *SELF-REINFORCING*. This active state was now engineered

into the dry season conditions of Singapore and southern Malaysia. A protracted thunder and lightning barrage ensued that evening, which included numerous strikes within 200 meters of the Apache unit at Loyang.

A stout tree at the entrance to corporate HQ succumbed to a combination of lightning and gusty local winds.

One of the distinguished Singaporeans who had been apprised in advance of our operations, received forceful proof of their efficacy. Storm winds ripped an expensive canopy from one of his business enterprises. Singapore is no stranger to violent tropical weather, but unforecast thunder and lightning in the middle of the dry season is unusual.

The ensuing disturbances on 23 July 1988, were kept active by judicious use of the fixed-base units. The situation was then permitted to subside, allowing for a national holiday and with the purpose of then raising a second, similar sequence of events

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*Successful results would be commercially applicable in other equatorial and subtropical environments bedeviled by dry-season difficulties.*

---



from the typical dry season baseline conditions.

The weather on 26 July, 1988 was satisfactory for the second venture. Overnight operations 25/26 July with fixed-base units, aimed at triggering an anomalous west-to-east primary flow, appeared to have been successful. From 31 stories up on Singapore's south shore, a dark loom could be observed in the westerly sky. Later study of Changi radar plots verified that a moisture accretion had developed in the northwest quadrant from Singapore. The "gun" boat was taken due south from Changi on the morning of the 26th, until we could turn due west, and clear Singapore city in a long, straight "brewing" pass to the west.

This steady westerly thrust produced visible showers into the reservoir area on Singapore, and this was video taped. By noon, the gunboat was southwest of Singapore city, with the small, spinning geometric device aboard etherically locked into the moisture mass northwest of Singapore, pulling the mass directly down on the gunboat and boosting its size and intensity. This was directly visible to us. Changi radar plots show the scenario precisely. At 11:00 am, the rain mass lies entirely to the north of the east-west Changi vector. Lightning is striking. By noon, the huge blob has oozed well south of the east-west Changi Vector, and is about to engulf western Singapore.

Our specialized "T" technique was implemented at 12:25. The 1:00 pm radar plot shows a *doubling* of the rain mass south of the east-west Changi vector. Lightning (arrow) continues. The dark, blue-black mass of moisture was now not only encroaching on Singapore city, but also was looming west and southwest of our boat, mountains high and threatening. The dramatic scene was videotaped and photographed, as the temperature began dropping steeply amid a rising wind.

By 2:00 pm, Singapore Island was engulfed, and so were we. Running like Dr. Frankenstein before the monster of our own creation, we ran the gunboat aground on a shoal. A deluge ensued, with zero visibility. Singapore Island remained under rain until after 4:00 pm. The official downtown rain gauge

recorded 26.7 mm.

No further operations were conducted that day. Dry season conditions quickly re-established themselves, with a normal 27 July morning. Using a back-up boat that was only marginally effective compared with the boat we had damaged, the "T" technique was employed again for two hours in the late afternoon of the 27th, in sheltered waters off Loyang. A series of tremendous deluges ensued on the 28th, resulting in a further 59.9 mm into the downtown Singapore rain gauge, making a total of 114.8 mm for the project period. Singapore reservoirs benefited with 68.3 mm of rain in the same period. Thus ended TANGO, extending over 10 dry season days.

Vital functional information on primary energy in equatorial environments was gained from TANGO. The "T" technique is the most exciting

innovation in this kind of engineering in many years, in the opinion of this writer. Because of its potential for destructive misuse, the basic procedure must remain highly proprietary.

Participating engineers in TANGO now have no doubt that the actual generation of low-pressure systems can be technically tackled and pushed through to success. By means of such engineered implosive vortices, comprehensive reversals of drought can be initiated, and probably sustained. Sagacious use of small, mobile, rotating geometric structures permits in the real world, and in the here-now, weather modification on a scale not feasible with chemical nucleation. The latter is the government-sustained method that absorbs over \$100 million annually in the USA.

With a translator no larger than a human head, radar confirms that we raised about 30,000 square kilometres of rain mass over Singapore, Malaysia and northern Indonesia, in the dry season. The engineering was conducted on the basis that the weather is a functional physical expression of the biogeometric realities of the underlying ether. Weather engineering and control is thus approached fruitfully via the biogeometric pathway, without chemicals or radiation. TANGO was another step along the biogeometric path.

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*With a translator no larger than a human head, radar confirms that we raised about 30,000 square kilometres of rain mass over Singapore, Malaysia and northern Indonesia, in the dry season.*

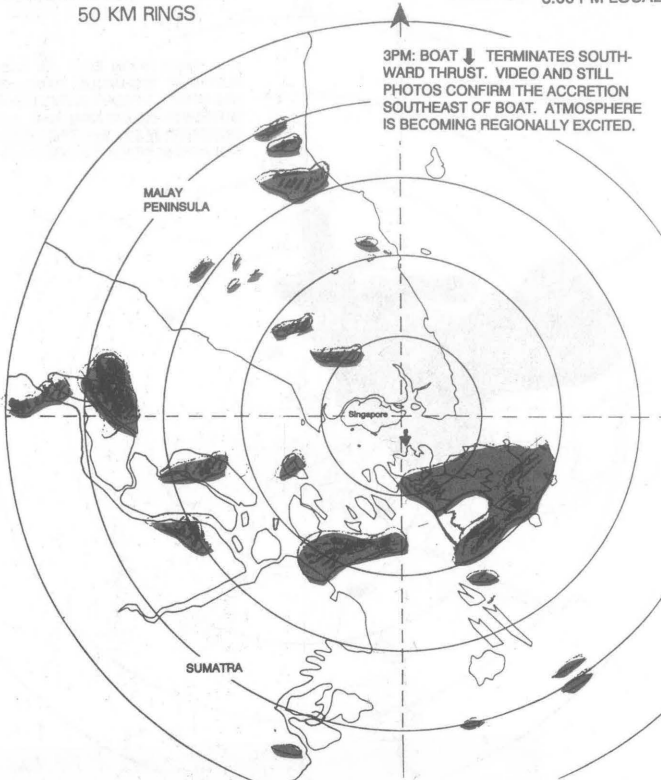
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METEOROLOGICAL SERVICE  
SINGAPORE  
WEATHER RADAR WATCH  
50 KM RINGS

DATE: 22 JULY 88

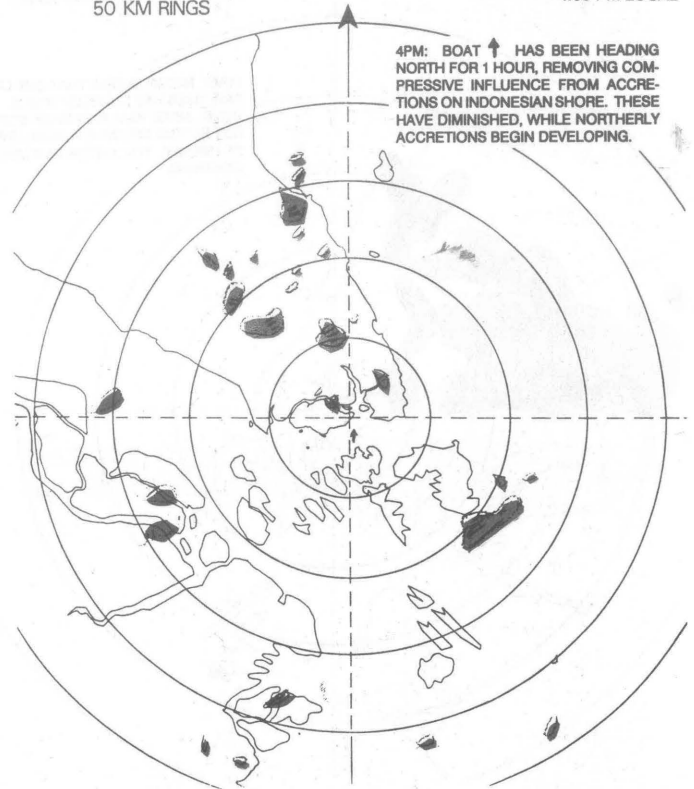
TIME: 0700 UTC  
3:00 PM LOCAL



METEOROLOGICAL SERVICE  
SINGAPORE  
WEATHER RADAR WATCH  
50 KM RINGS

DATE: 22 JULY 88

TIME: 0800 UTC  
4:00 PM LOCAL



THE CENTER OF THE RADAR DISPLAY IS AT CHANGI INTERNATIONAL AIRPORT AT THE EASTERN END OF SINGAPORE ISLAND

METEOROLOGICAL SERVICE  
SINGAPORE  
WEATHER RADAR WATCH  
50 KM RINGS

DATE: 22 JULY 88

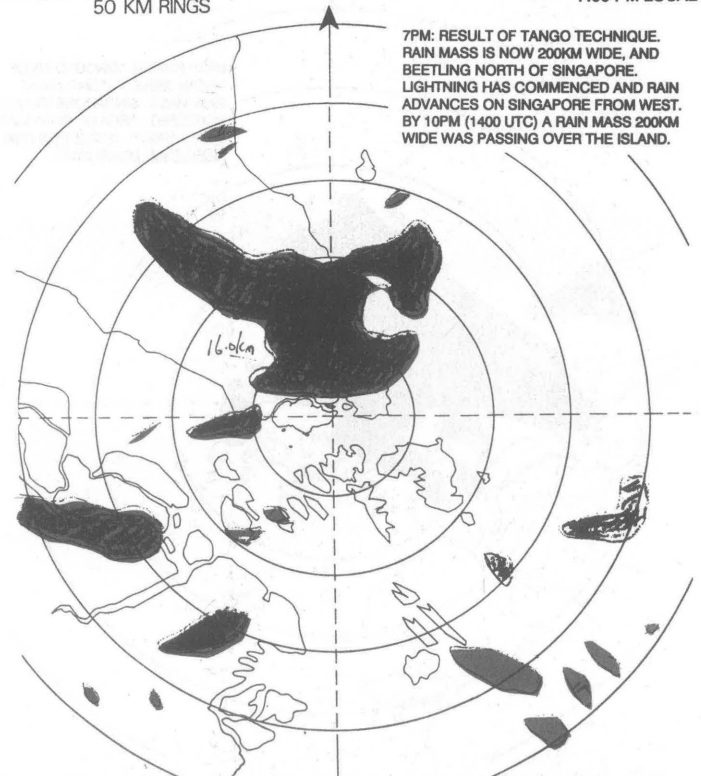
TIME: 1000 UTC  
6:00 PM LOCAL



METEOROLOGICAL SERVICE  
SINGAPORE  
WEATHER RADAR WATCH  
50 KM RINGS

DATE: 22 JULY 88

TIME: 1100 UTC  
7:00 PM LOCAL



METEOROLOGICAL SERVICE  
SINGAPORE  
WEATHER RADAR WATCH  
50 KM RINGS

DATE: 26 JULY 88  
TIME: 0300 UTC  
11:00 AM LOCAL



11AM: RADAR SHOWS THAT SIZE OF RAIN MASS HAS DOUBLED IN ONE HOUR. NOTE THAT RAIN MASS DOES NOT EXTEND BELOW E-W AXIAL LINE OF DISPLAY. 7KM ARROW INDICATES LIGHTNING.

METEOROLOGICAL SERVICE  
SINGAPORE  
WEATHER RADAR WATCH  
50 KM RINGS

DATE: 26 JULY 88  
TIME: 0500 UTC  
1:00 PM LOCAL



1PM: SINCE NOON, BOAT ▲ HAS COMPLETED "T" TECHNIQUE. RAIN MASS HAS MADE A MASSIVE ANTICLOCKWISE MOVEMENT BELOW AXIAL LINE, AND INCREASED IN SIZE 33% SINCE NOON. 7KM ARROW INDICATES LIGHTNING.

THE CENTER OF THE RADAR DISPLAY IS AT CHANGI INTERNATIONAL AIRPORT AT THE EASTERN END OF SINGAPORE ISLAND

METEOROLOGICAL SERVICE  
SINGAPORE  
WEATHER RADAR WATCH  
50 KM RINGS

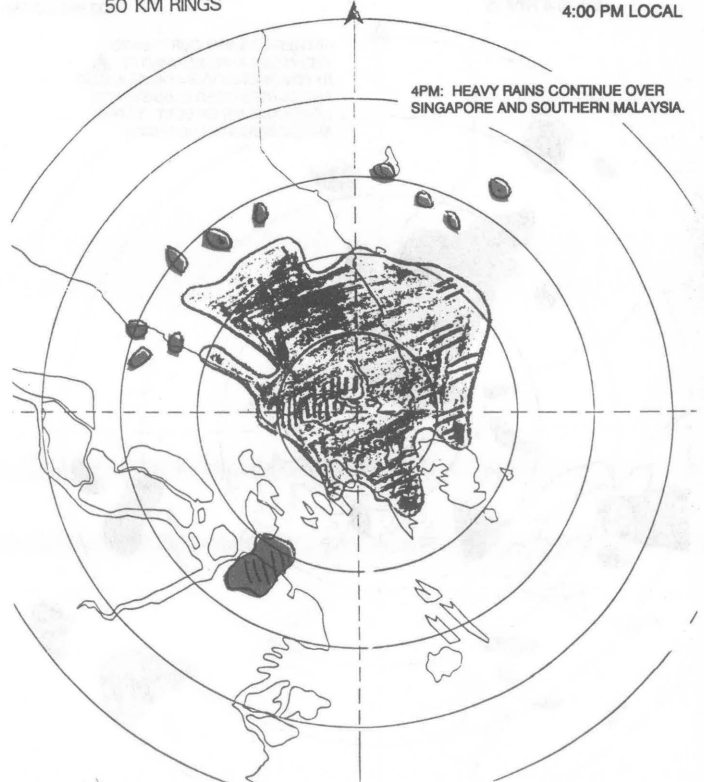
DATE: 26 JULY 88  
TIME: 0600 UTC  
2:00 PM LOCAL



2PM: BOAT IS AGROUND AS OF 1:15PM WHILE FLEEING FROM RAIN MASS. SINGAPORE ISLAND ENGLTFED. AREA OF RAIN MASS STILL LARGER. ACCRETION NOW MORE THAN 200KM WIDE.

METEOROLOGICAL SERVICE  
SINGAPORE  
WEATHER RADAR WATCH  
50 KM RINGS

DATE: 26 JULY 88  
TIME: 0800 UTC  
4:00 PM LOCAL



4PM: HEAVY RAINS CONTINUE OVER SINGAPORE AND SOUTHERN MALAYSIA.

# VIOLETION OF LAW OF CONSERVATION OF CHARGE IN SPACE POWER GENERATION PHENOMENON

By

PARAMAHAMSA TEWARI  
Chief Project Engineer  
Kaiga Project  
NUCLEAR POWER CORPORATION  
Karwar  
INDIA

## Introduction:

It has been hitherto believed in physics that the total electric charge in the Universe is a constant quantity, and if additional charge appears in some region, it is only at the expense of the charge deficit in some other regions. It is a basic law that electric charge is conserved and cannot be destroyed or created. Precise experiments on a Space Power Generator (SPG) which has been now further developed to demonstrate the commercial viability of the newly discovered phenomenon of space power generation however, totally violate the existing law of conservation of charge, by generating output electrical power much in excess of the input electrical power. Since electric charge is a form of basic energy, the law of conservation of energy will need to be enlarged to incorporate in it the dynamics of absolute vacuum [1] which in a state of rotation generates fundamental field to produce electrical charge and energy.

## Description of the SPG:

The SPG shown in Fig.1 is a further developed form of the machines described [2,3] in earlier issues of this magazine. A non-magnetic shaft interconnects two mild steel rotors on which two electromagnets are mounted. Electric power at 1.5 volt d-c and high amp-eres is drawn from each unit, with the help of copper-graphite brushes when the machine runs at 2860 rpm directly coupled and driven by an induction motor. The power is drawn between the inner rotor's cylindrical surface and the shaft through d-c shunts that enable measurements of high d-c current. The SPG weights about 150 Kg. and is fabricated out of 120 mm thick mild steel plate. The two units enable generation of power at more than 3 volt d-c by appropriate series connections between the two coils. The electromagnet's coils are 16 swg super enamelled wire with 216 turns in each coil. The feature that brings improvements [4] in this machine is the larger diameter of the rotors that produces higher d-c voltage at comparatively lower speed, not exceeding 3000 rpm. Also the twin units with single coil in each unit double the amount of power.

## Test Results:

The drive motor (DM) takes no-load current of 2.6 amperes (1300 watts) to rotate itself and the SPG to overcome windage and friction at 2870 rpm. The no-load voltage internally generated in each unit of the SPG is adjusted to 1.5 volts d-c between the shaft and the inner

rotor by the control of the d-c excitation current in the two electromagnet's coils connected in series. The excitation current is 31 amperes, the total d-c resistance of the two coils being 2.5 ohms. The power given to the electromagnets is  $31 \times 31 \times 2.5$ , that is, 2400 watts. The two shunts with calibration of 2000 amperes for 75 mv are now connected across the two output circuits. The d-c currents measured in each circuit are almost equal to 2613 amperes corresponding to 98 mv reading of the shunt. The output electrical power of each unit is  $2613 \times 1.5$  watts, that is, 3919 watts. Total electrical power from the two units is 7839 watts. As the SPG is electrically loaded, the current of DM rises to 10 amperes, showing a rise of 7.4 amperes over the no-load current, and corresponding to a rise in input electrical power of 3700 watts.

The load current of the DM of 10 amperes amounts to the total electrical input to the DM of 5000 watts, out of which 1300 watts is utilised to overcome the no-load losses. The remaining electrical input of 3700 watts generates 7839 watts of electrical output power, giving the efficiency of space power generation in this particular machine as 211.8%. Assuming electromagnetic efficiency of the DM as 80%, the efficiency of the electrical energy generation of the SPG will rise to 264.75%.

If the excitation power of 2400 watts given to the SPG is deducted from the total electrical output from the SPG of 7839 watts, the balance electrical output of 5439 watts still exceeds the total electrical input of 5000 watts by 439 watts, giving the total system efficiency of 105.9% while, in addition the DM-SPG set runs as a perpetual system drawing 1300 watts of power from space.

## Quantum of Space Power:

The quantum of electrical charge produced due to the rotation of space in a rotating electromagnet and the electrical power produced when the power is withdrawn through an electric circuit, as discussed in earlier article [2], is given by,

$$P = (1.8) L N r^2 10^{-5} \text{ kW} \quad (1)$$

where, P is power in kW, L is axial length of the SPG in centimeter, N is revolution per second, and 'r' is the radius in centimeter of the SPG on the inner rotor surface.



The derivation of the above relation was based on the assumption that the radius of the spherical void at the centre of electron as discussed in space vortex theory [1,2] is  $1.5 \times 10^{-11}$  cm. More precise measurements in space power generation experiments, however show that the coefficient 1.8 in equation (1) should be 2.5, and the void radius at electron's centre should be taken as  $10^{-11}$  cm. With these corrections the space power equation (1) now becomes:

$$P = (2.5) L N r^2 10^{-5} \text{ kW} \quad (2)$$

substituting the values,  $L = 12$ ,  $N = 47.6$ , and  $r = 11.43$  in (2),

$$P = 5.85 \text{ kW}$$

developes velocity fields of vacuum that qualitatively act like additional charge within the rotating system and liberate orbital electrons of the iron atoms. With the interaction of the magnetic field the free electrons form polarites [2,3]. It is possible to commercially develop a machine that can not only rotate itself perpetually but also generate additional electrical energy in Kilowatts and higher range. The law of conservation of charge and the law of conservation of energy are applicable within the systems confined to material interactions alone and not to the medium of space which is a dynamic entity that can rotate and create charge at ordinary speeds, and can rotate and create electrons at speed of light.

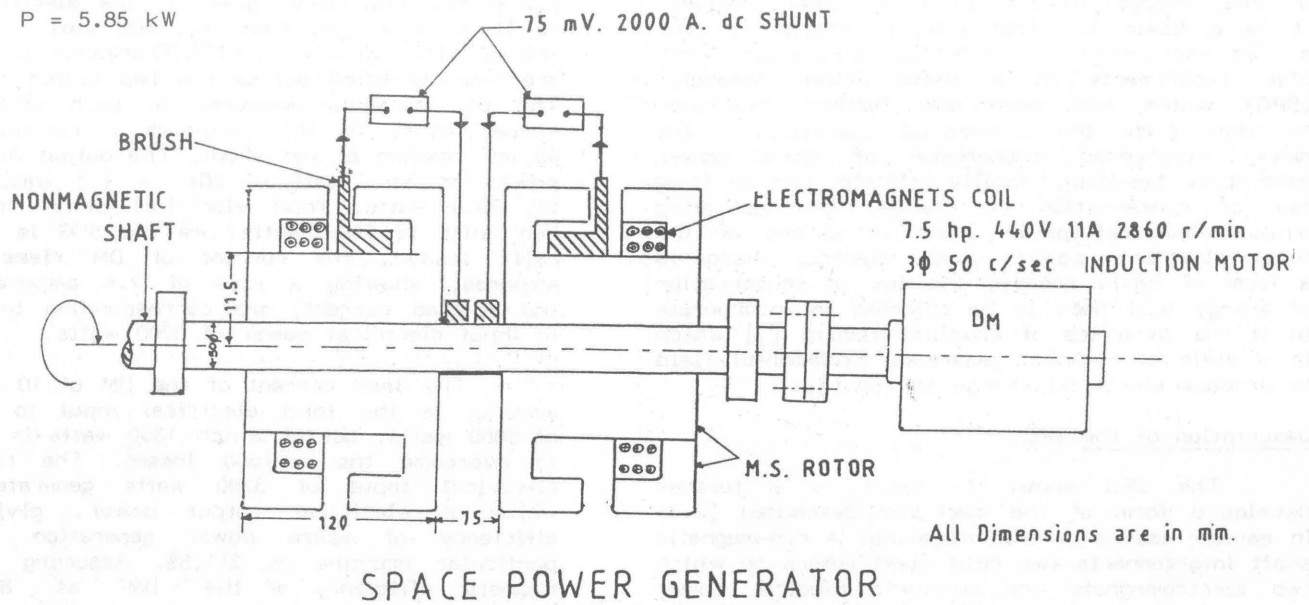


Fig-1

Since there are two units of the SPG on the shaft, total power from the two units will be 11.7 kW, which is 1.5 times the output power drawn from the machine in the above test. With additional brushes and reduced brush contacts at about 3000 rpm, the above machine will have capacity to produce about 12 kW of power. If the SPG is driven at 6000 rpm both the voltages and currents will be doubled, producing 4 times output of about 48 kW. Since the excitation power remains constant, much higher total system efficiency is expected though the efficiency of the SPG as computed above will remain constant at 211.8%.

#### CONCLUSION

Mass-energy equation of Einstein brought forth an universal law that an electron like all matter contains in its structure energy. A further enlargement of this law is that electron is itself energy, where "energy" in physical terms is a state of vacuum in rotation. Even at ordinary speed of rotation of an electromagnet, the interatomic space of the iron core

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# BOTTLED VORTICES

## AND KEELY'S SECRET EXPLAINED

by Jorge Resines

In this article I want to bring to my fellow Borderlanders both translations of texts from old scientific journals and my personal viewpoint on the secret behind John Worrell Keely's devices. In this text you will read how an Englishman built an apparatus similar to the "Hydro-Pneumatic-Pulsating-Vacuum Engine" built by Keely (and which is illustrated on pages 2 to 7 of Gray Barker's book "Photographs and Drawings of John W. Keely's Machines") but with the difference that anybody who built it could make it work.

The origin of my information is France, but I think that more data must exist in England and the USA about the work of Mr James Basset (maker of a Keely-type device), and therefore I suggest those with good public libraries nearby to avail themselves of as much complimentary information as is possible.

Have you ever wanted to hold a world on the palm of your hand? Well I cannot tell you how to do it (rather, write and ask David Rockefeller--he has some experience on the matter) but the next article I do here translate will give you good information on how to reproduce a planet-carrying vortex with materials you can easily put together:

*"EXPERIENCES WITH A VORTEX PRODUCED WITHIN A CLOSED VASE --- APPLICATION TO A PLANETARY SYSTEM"* (Comptes Rendus; November 18, 1918, pp 678/680) by Mr Emile Belot, Introduced by Mr J Violle.

We know the excellent experiments of Mr Charles Weyher through which he has allowed us to reproduce by means of water vapor the phenomena of marine waterspouts and by means of air vortices those of attraction and pseudomagnetism.

They do not allow a vortex to undergo whole motions (such as translation and rotation) and on the other side the theory of vortex vectors is not as safe and well-founded so as to foresee the phenomena produced in this case. The following experiments have been engineered to respond to these questions:

Be it a bottle of Section B (fig. 1) with a flat butt, completely filled with water, we hold it horizontally with both hands and make it describe rapidly (about 5 turns per second) a vertical closed orbit O.

The liquid will not make any rotating motion within

the bottle; but, on the contrary, let us leave an air pocket of only 20 cubic centimeters within the vessel, and the phenomena will change completely; at every instant centrifugal forces will tend to move the bubble towards the curvature center of the orbit and the water in the opposite direction. Because of this, both fluids will take into the bottle a rotary motion in the same sense of their orbital circulation, both fluids do not have the same density and their centrifugal motions will be: water towards the exterior and air towards the axis, with a rotational speed minor at the exterior because of friction against the bottle, in short the fluid spires now constitute a physical vortex.

These phenomena are verified equally well if one has introduced within the bottle a few drops of the clear portion of an egg in order to stabilize the air bubbles. Anyway, a vortical tube is not stable if it is not perpendicular to levelled surfaces, therefore it is necessary by a fast motion to translate the bottle from position B' to vertical

position B" (fig. 2). We now see the conical tornado T designed by the air bubbles, the impurities in the liquid allow verification of the rotation speed which is greater as they come closer the vortex's center.

The fast motion of relocation in the bottle produces a double effect upon the vortex: (1st) The gyroscopic effect which results from the lateral pressure which has the body turning, in a sense perpendicular to the direction

of the effort--the vortex partially becomes a sort of water spring coil R; (2nd) The centrifugal effect that is agitated upon the whole of the vortex if the center of bottom A is fixed in space.

The portion R, forming the water spring coil, oscillates alternatively toward the higher and lower portions, which shows well the virtual elasticity due to rotation. But besides this alternative undulation, also verified is an alternative matter translation by particles that rise and descend. Then the vortex presents both a longitudinal elasticity as well as a transverse one. The vortex's central attraction is verified by the particles (impurities) that join at the central cone C upon the bottom and it is the "bushing" phenomenon of marine waterspouts, completely reproduced as it is by Mr Charles Weyher. After some time, the vortex destroys itself by exterior friction and increasing its diameter as do gyrating tempests. Also seen



Fig. 1.

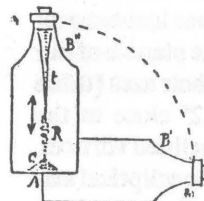


Fig. 2.

are the different concentric layers. This diameter increase comes faster when the vortex is inclined from the vertical line, which demonstrates that its instability becomes greater and greater when its axis is deviated from the normal at levelled surfaces.

It is that the matter constituting the vortex (here the air bubbles) tend, even when it is inclined, to traverse along the axis by the action of its weight. On the contrary, within a vertical vortex, weight acts upon the bubbles that go up or down, to leave them at the same distance from the axis in their conservation of the same angular speed, thus stabilizing the vortex.

If we include a little olive oil inside the bottle, it can assume within the workings of the vortex many forms of equilibrium in the rotating liquid. Therefore it is a centered cylindrical-conic form upon the vortical axis and terminated high and low by spherical heads and later we observe an oily helicoidal spire at a certain distance from the axis.

When we apply it to the planets, within the hypothesis of their vortical origin, the precedent results concerning the vortices' stability we find: The primitive ecliptic, plane of maximal density, must be a levelled surface within the nebula, any perpendicular planetary vortex (to the ecliptic) must be much more stable than an inclined vortex.

In fact, the constituent of normal attraction to the ecliptic does not tend but to condense upon itself the vortical layers located at the same distance from the axis without mixing them among themselves. The component of central attraction does not have a differential action tending to dislocate by stretching the portions located over and under the ecliptic. Alone among all the planets of our Solar System, Jupiter and the Moon have their axes (those of the generating vortex) perpendicular  $2^\circ$  close to the ecliptic. Having had more stability than inclined vortices, as those of Saturn and Earth which make the ecliptical axis a respective inclination of  $28^\circ$  and  $23^\circ 27'$ , they could put together more matter. It is so that Jupiter has a mass of 3.4 times larger than Saturn, even if this latter has a perimeter 8.83 times larger within the nebula: For the same reason the Moon has a relative mass in proportion to Earth, and the notion of vortical stability is enough to explain within our System the alleged mass anomalies that, for the Moon, have led Darwin to search its origin as an excrescence from Earth. (END OF TRANSLATION)

Somebody whose works are not so easy to duplicate was the late John Worrell Keely, who he alone (or somebody whom he touched) could make his devices work. Despite the many criticisms levelled (in his time and later) against him, nobody can deny Keely being a pioneer in the field of Physics:

By the time he began his experiments, he theorized that matter and energy were only two different aspects of the ether. All the scientists of his time believed otherwise and only with the 1896-1904 experiments of the Frenchman, Dr Gustave Le Bon (a physician turned physicist who discontinued his works because of economic pressure) this

position changed.

In the case of Keely himself we see that he chose as prime mover for his machines the manifestation of ether known as sound. By striking a resonant chord at his devices, he set them in motion and as soon as the machines collected ether from the immediate environment this kept them working until either their parts collapsed due to wear and tear or the operator struck a dissonant chord and stopped them.

One thing I did find while calculating the sizes of Keely's devices from the data I was given (thanks to the kindness of Richard Toronto [of the USA] and Ray Archer [of England], who sent me additional information), was that they had been built according to the mathematical parameters given out by Bruce Cathie in his books on the grid. Also, something else I found was that Keely was employing (how he found the former and this I do not know) the "metric theorems" first published in our century by the Argentine scientist Dr. Jose Alvarez Lopez in 1950 (at "Fisica y Creacionismo", partially quoted by Peter Thompkins in "Secrets of the Great Pyramid") and which he (Lopez) derived from the work "Dimensional Analysis" by Percy William Bridgman; both of which are the key for the mastery of the grid and the ether and must be used jointly.

Hence, the more I delved into this, it became clear that Keely had understood both kinds of parameters and used a "little trick" to keep his inventions and ideas to himself, to wit: I am of the opinion that while the metal composing each portion of his devices was cooling inside the crucible, Keely connected it to a "resonator" of a certain kind (violin, clarion, etc.) and while playing it to a certain note he also "wished" his own personal energy into the metallic piece; after this process had been accomplished (the duration of this deed remains unknown to me) the piece was tuned to Keely and just to him. As the resonating part could be used as a better resonator, it is obvious that the process feeds on itself and successive generations of devices are better than their parents but worse than their children.

I am of the opinion that, to activate his devices, as a prime mover, Keely approached them while mentally projecting the image of the device working upon the apparatus he was about to set in motion, he struck a resonant chord/tuning fork, etc, and this made it work. But this simple deed included a great danger for the operator for he himself was included into the field generated by the apparatus, and this was, in my opinion, the reason for the accident Keely suffered when in the early stages of his researches. He was in bed for six weeks, with some broken bones and half his body paralyzed, while his laboratory suffered widespread wreckage and pipes 12 inches in diameter broke as if they had been of paper instead of steel. After his recovery, and in order to prevent the energies from harming him more, Keely went to work but used water as a cushion for the unleashed etheric fields.

Jana, the daughter of the Czech researcher Robert



Pavlitia, underwent a similar, though much less serious, incident when she was a child: She touched one of her father's psychotronic generators and had her arm paralyzed; her father discovered it upon his return home and worked for three days in a row to construct another device and thus healed her.

I do not know whether Mr Basset knew or not about Keely and his researches, but after a close analysis you will notice the great resemblance (only some of the shapes at the upper portion of the devices differ) between the device to be now described and Keely's "Hydro-Pneumatic-Pulsating-Vacuum Engine," first built between 1882 and 1885:

**"APPARATUS FOR MAKING PHYSICAL OR CHEMICAL EXPERIENCES AT ALL TEMPERATURES VARYING UNDER LIQUID PRESSURES OF 15,000 kg/cm<sup>2</sup>"** by Mr James Basset, Introduced by Mr C Matignon, (A translation from an article that appeared in "Comptes Rendus a L'Academie des Sciences de Paris," session of August 1st, 1927).

The apparatus constructed allows to produce, within the enclosures formed by the experimental chambers, permanent pressures upon liquids, regulable from some hundreds of kilograms up to over 20,000 kilograms per square centimeter:

Figure 1 shows schematically the general device employed for obtaining very high pressures: A pump A compresses at 1000 kg/cm<sup>2</sup> within the auxiliary reservoir B which is an accumulator, a liquid destined to feed the primary pressure vessel C.

The set that generates very high pressures is composed of the main press F rigidly coupled and with perfect centering with primary press C.

The piston G of the press carries a centered adjustment H upon which comes supported a secondary piston J built in extremely hard steel, thermally treated and rectified with a grinding stone for adjusting perfectly upon the core K of the main press F.

This main press is constituted by a succession of cores with increasing diameters in special steels, of the right qualities, which underwent a series of treatments for allowing them to resist, without deformation, the enormous effects to which they will be submitted.

The proportion of the squares in the diameters of piston J and the piston of press G give the proportions of pressures at K and C. These two ratios are not rigorously the same ones, the frictions of piston J intervene for modifying the proportions of pressures within K and C

within one way or the other, be it that pressure is raised or diminished. The margin of error is in the order of 2 to 5% according to the intensity of pressures employed, but this approximation is enough within most cases.

The very high pressures obtained within chamber K are used within experimental chambers L which are built analogously to the vessel of press F, but specially arranged for containing the reaction crucibles and the electric heaters necessary for the experiments.

The closure of these experimental chambers is assured by some perfectly adjusted blocks, giving the employed joints an absolute hermetic seal. These closure blocks employed are supplied with isolated electrodes allowing the introduction of an electrical current within the enclosures under pressure thus assuring a heating of the reaction tubes, or it can make electrolysis under the elected pressures.

Experimental chambers L are related to chamber K by means of pipes O formed by many arranged concentric tubes. The inferior hole, through which the communication between chambers is made, is  $\frac{70}{100}$  of a millimeter in diameter, and the outer diameter of the tube is 22 millimeters.

The perfection of the sliding joints is such that the pressures employed can be maintained for the duration of many days without it being necessary to touch the apparatus to compensating for potential escapes, which are absolutely nil.

Figure 2 represents the photography of a complete set with the experimental chambers for permanent working up to pressures of 15000 kilograms per square centimeter. Perceived behind the cylinders are the devices for heating the electrical ovens which occupy their places within the experimental chambers. The device measures 1.5 meters in height and weighs about 300 kilograms.

The formidable efforts that the walls of chambers and vessels of presses must endure are illustrated by Figure 3, which shows, from one of the first essays, a cylinder pressed up to 14000 kilograms. The chamber's diameter is of 12 millimeters, the cylinder's outer diameter is of 100 millimeters, and the metal's rupture limit (in the material employed) is over 200 kg/cm<sup>2</sup>.

It is after long essays that the fabrication methods have been perfected, the qualities of the steels employed and the details of construction and assembling, and allow as of this day the usage of such devices with a complete security and without any danger (END OF TRANSLATION).

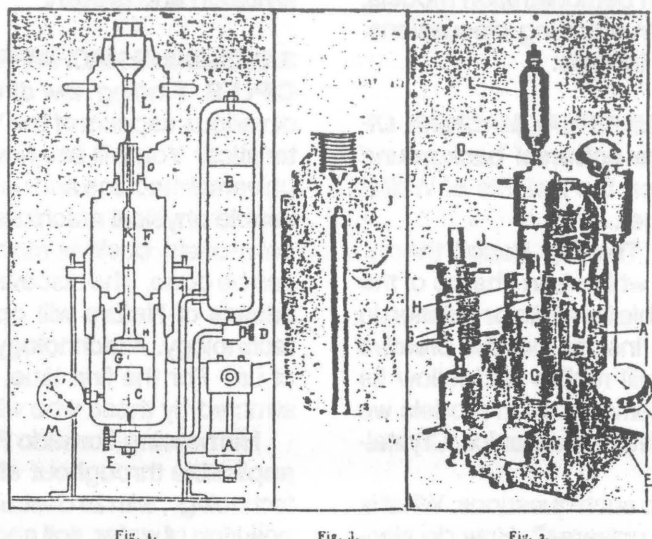


Fig. 1.

Fig. 2.

Fig. 3.

BORDERLAND SCIENCES and ENERGY UNLIMITED present  
**VORTEXIAN MECHANICS AND IMPLOSION WORKSHOP**

With Walter & Rhetta Baumgartner  
November 3-5, 1989  
Best Western El Rancho Inn, Milbrae, California

**A New, Natural, Non-Destructive Approach to Technology, Engineering,  
Agriculture, Water and Resource Management and Health.**

This workshop is in the form of lectures, hands-on machinery, experiments performed in your presence, theoretical instruction through demonstration models, video presentations and brain-storming discussions. Sections of the workshop will include:

**1. UNDERSTANDING THE UNIVERSAL MACHINE OF NATURE.** Understanding the universal background mechanics of Nature based on the insights of Walter Russell and Viktor Schauberger.

Nature's Cosmogony vs "The Big Bang" theory. There is an invisible universe which is in charge of the visible universe. It is responsible for all life or creation in the visible. You will gain an insight into the creative processes of Nature. You will realize and follow its precise mechanics. Using demonstration models we will look at Space Geometry, Wave Mechanics, Crystallization and Growth.

You will know the answer to such questions: What is behind the Electro-magnetic universe? How do electricity and gravity link up? What is a wave formation? How does levitation and gravitation occur?

You will begin to think in all dimensions. When one dimension changes all of them have to make adjustments. What are the opposites of Nature, What different effects do they have on us? How do they work together? What is balance? And what is the real meaning of "Equal and Opposite Reactions"?

The awareness you will gain can be applied to your personal, emotional and psychological life—as well as hardware and technology design.

**2. NATURE'S TOOLBOX.** You will observe tools Nature uses. You will observe vortices in water and air. We will create and observe living, dancing vortices. You will learn how to copy vortices directly from observation. We will run our "Vortexya Water Machine"; you will see, taste and feel the differences in waters, juices and wines subjected to centripetal and centrifugal actions. Experiments will be performed to make visible a way to discern the two types of energy water carries: one which indicates energy radiation, lowering of potential, buoyancy and levitating capacity, loss of mechanical power capacity in turbines, and promotes cancerous growth in plants and other forms of life; and one which represents an energy accumulation, raising of electrical potential, levitation, increased power and healthy growth in plants and animals. You will discover the

vortex in Nature all around you, learn how animals, birds, plants use the vortex tool for propulsion, flight, levitation and growth.

**3. DESIGNING MACHINERY BASED ON NATURAL PRINCIPLES.** Finding new directions. Practical application of various aspects of the Vortex, how to use its characteristics. You will see how to take parts of this perfect universal machine and use it to design or translate it into usable physical machinery. We have constructed visual models, besides many drawings to show how this can be done. The discovery of these basic principles or causes of Nature will open up a totally new area of technology. A technology as never dreamed of by most of us. For the first time, apparatus can now be constructed by those who wish to do so.

**Harnessing Tornado Power.** This new knowledge is applicable throughout all fields of life. Since present technology, with its destructive aspects of nuclear waste, pollution of water, soil and air, fossil fuels, chemicals for food production and water purification are so harmful to Nature and biological systems, and we are suffering the consequences at such alarming rates, we will propose and focus on the following aspects: A New Energy Source, A New Fuel, New Power Generators and Prime Movers, New Transportation or Propulsion by air, water and land. This section of the workshop will go into propulsion systems which are possible with centripetal motion or implosion, in general. Since many animals in Nature use parts of these propulsion systems, we shall make comparisons. The "Fish Motor" and the Implosion Motor will be discussed. We will present New Agricultural methods and implements to replace pesticides, herbicides and chemical fertilizers, present methods to heal and reverse the deforestation, demineralization and erosion occurring. We will present machines and procedures to Heal Ourselves and Our Planet by recovery and reversal of polluted water, soil and atmosphere with devices for a "Transition Technology" containing pollution controls, water treatments, sewage and waste treatments and a vortexian ore and oil enrichment process to upgrade low grade to higher, for more energy content.

**4. HISTORY AND CURRENT APPLICATION** of Vortexian Principles, devices and methods on market and in use today. Success stories, data of the advantages of these devices.



We are problem solvers. We offer new directions for our old problems in industry, technology, agriculture and water management. Come and listen to our delightful and easy to understand story of creation (not a religious story). Find out how you can make use of Nature's undiscovered principles and methods.

Present Science and Technology concerns itself only with explosion, expansion, radiation, fission, centrifugal motion and exothermic reactions: whereas, Nature uses implosion, contraction, fusion, centripetal motion and endothermic principles. In this workshop you will experience the difference so that you may orient your future work in the correct direction.

Our way of thinking, in all branches of life, including technology, needs this very constructive principle of Nature working for us in daily life.

#### **BENEFIT FROM THE SECRETS OF NATURE!**

We are inviting you as artists, sculptors, engineers, technologists, inventors and those concerned with growth and health who wish to be more creative in their particular field. It is a workshop which will give you the basic tools required to explore and come up with something for solving problems by taking a totally new start in a direction your mind will indicate. We take the creative side of Nature. We will constantly come back to the actual hardware in this workshop and answer questions. Come and inform yourself on this synthesizing, centripetally moving, imploding, growing, constructing side of Nature to help save this planet from its destruction.

#### **WORKSHOP PROGRAM**

##### **Friday Evening 7:00PM-10:PM Registration-Introductory Lecture-Social**

7:00PM-9:00PM The public is invited to a 2-hour lecture: A Survey Of Our Technological Impact Upon Our Planet AND How We Can Find Solutions To Our Crisis.

Fee to Public: \$10:00 per person (This fee is included in Workshop Attendees fee of \$150.00)

9:00-10:00 PM Registration and Social

##### **Saturday Morning: 9:00AM-12:00Noon Lectures-Slide Show-Demo Models**

8:30AM-9:00AM Continued Registration

9:00AM-10:00AM Lecture: Our Universe, A Product of Two Opposites; Defining Centrifugal and Centripetal Motion.

10:00AM-11:00AM The Vortex-The Workhorse of Nature; Its' Structure and Characteristics. Slide Show: A Journey From the Macrocosm to the Microcosm via The Vortex.

11:00AM-12:00Noon Space Geometry, The Structure of Creation, The Structure of the Wave. Lecture, Models and Slide Show.

12:00Noon-2:00PM Lunch Break

##### **Saturday Afternoon: 2:00PM-5:00PM Lectures-Demonstration of VORTEXYA Health Water**

2:00PM-3:00PM Observation of Vortices in Water; Lecture: Water As A Living Organism, Its Metabolism, Characteristics, Its Importance as a Carrier of Life Force, Its Destruction and Its Revitalization.

3:00PM-3:30PM A Breather, A Stretch AND a Taste of VORTEXYA Health Water

3:30PM-5:00PM Demonstration of Health Water Machine; Lecture: The Influence of Water, Its Potential and Secrets of Levitation.

5:00PM-7:00PM Dinner Break

##### **Saturday Evening: 7:00PM-10:00PM "The Fire in the Water" Demonstration**

7:00PM-8:00PM The Wasserfaden (Water Thread) Experiment. Water will light vacuum tubes and neon lights. See the electrical potential in water, sparks, its "field" exposed. See the water levitate against gravity.

8:00PM-9:00PM Lecture: The Significance of the Water Thread Experience.

9:00PM-10:00PM or?? Questions & Answers-Social Hour

##### **Sunday Morning: 10:00AM-12:00Noon Vortex Engineering**

Lecture: Designing Machinery Based on Natural Principles; Practical Applications Being Researched For A New Fuel, New Power Generators, Prime Movers, New Transportation, and Propulsion Systems. Prototype Machinery Presented.

12:00Noon-2:00PM Lunch Break

Sunday Afternoon: 2:00PM-5:00PM or ?? Lectures-Slide Show Brainstorming

2:00PM-3:30PM Lecture: Agricultural Program With Vortexian Engineering, Pollution Control Devices and Waste Water and Sewage Treatment Devices.

3:30PM-4:00PM Slide Show: History of Vortex Research.

4:00PM-5:00PM or ?? Questions and Answers, Brainstorming Discussions on Vortex Engineering.

Workshop fee is \$150. Hotel and meals are not included. A deposit of \$50 will hold your place at this seminar. Make all checks payable to Borderland Sciences, PO Box 429, Garberville, California 95440. For more information call Borderland Sciences at (707) 986-7211, or Energy Unlimited at (505) 854-2634.

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Free shuttle from airport. Call (800) 826-5500 for hotel reservations only. Ask for special rate for Energy Unlimited Workshop. Call Borderland Sciences for information on other motels in the area.





# GOLD

## THE METAL OF THE SUN

by Alison Davidson

"All the metals are wonderful strangers on earth, but gold most of all."

Wilhelm Pelikan

Gold is the royal metal, sacred from ancient times, a special substance favoured by the gods. A metal too soft for most practical uses and difficult to mine, especially for our ancient ancestors, gold was nonetheless eagerly sought after for religious purposes where it was created into the implements and shining images of the gods.

Gold was, above all, sacred to the solar deities. It was believed to be the spirit of the sun manifested on earth, and was kept in trust by the priesthood of the sun temples. Through their magical rituals and ceremonials they mediated between the gods, or cosmic principles, and the lives of the people on earth, maintaining the balance and harmony of nature. Gold, over all other metals symbolized this universal harmony, and this symbol is still found in the form of the sun-circle given in marriage ceremonies today, long after its deeper significance has been forgotten.

Gold is no less precious to us today, although its value is regarded more in terms of material rather than spiritual wealth. The first coins used for currency were decorated with pictures of the gods, until Alexander the Great began the ruler's trend of stamping gold coins with his own image. When England introduced the monetary gold standard in 1816 this precious metal was finally stripped of any remaining divine attributes and became instead an anonymous instrument of economic power. A North American fortress is said to hold the largest pile of gold in history, no longer kept for its beauty or its heavenly connections, but hidden in some heavily guarded vault—an abstract symbol in the heads of international bankers. Tom Valentine claims that the gold has been removed from Fort Knox!

How far we have come from the ancient way of perceiving the world and the subtle energies which connect us with the earth beneath our feet and the stars above. Modern scientists prefer to ignore, or perhaps are afraid to explore these occult (or hidden) connections, instead emphasizing our separateness from the world 'out there' and its infinite realms of life, the realms of the minerals, the plants and animals, the planets and stars. Although science derides these connections, we are expected to believe in their equally occult theories, especially in the existence of such esoteric particles as 'quarks.'

However, not all scientists have turned their backs on the knowledge of the past. Earlier this century there were those who found rich fields for their explorations in such ancient traditions as alchemy and astrology. Eugen and Lilly Kolisko were among these open minded scientists,

and demonstrated through their experiments carried out over a period of decades, the undoubted relationships existing between the metals and the planets to which they were ascribed by the ancients. In an article titled *Silver - Metal of the Moon*,<sup>1</sup> I described the experiments of Lilly Kolisko involving the influence of lunar forces on the metal silver. She also carried out similar experiments with gold, described later in this article, but first let's see what else the old sciences had to say about the properties of gold and of the sun.

### GOLD THE "CONGEALED LIGHT" OF THE ALCHEMIST

Alchemy, with its origins deeply rooted in Egypt—which incidentally had the most gold in antiquity—has been described as "the science of nature in its broadest sense, relating to the outward realm of metals and the inward realm of the soul."

The alchemical operation, dealing with the outer processes of transmuting 'base' metals into gold, imaged the inner processes of spiritual transformation. Gold was called the sun, the 'earthy sun,' and 'incarnated light.' The same essential quality was recognized both in the metal and in the heavenly sphere.

This is clearly shown in the alchemist's table of law passed down through the centuries, the text known as 'The Emerald Tablet' of Hermes Trismegistus, the original Egyptian god Tehuti, who calls alchemy 'the operation of the Sun'.

Stanislas Klossowski de Rola describes it in this way:

"Gold, because of its incorruptible nature and its remarkable physical characteristics, is to alchemists the Sun of matter, an analogy to the ultimate perfection which they themselves seek to attain by helping 'base' metals to reach the blessed state of gold."<sup>2</sup>

Gold is indeed incorruptible and because of its purity was regarded as the symbol of the spirit... 'the mass, density and divisibility of bodies have in it been transmuted into pure symbolical quality.' Where the properties of other metals are destroyed through weathering, rust and other earthly processes, gold remains stable and unaffected; as Wilhelm Pelikan writes that it does not lose its cosmic aspect. It possesses an 'inward equilibrium of forces',<sup>3</sup> making it hard to dissolve or combine with other metals. To change it into a salt a powerful mixture of nitric and

hydrochloric acids must be used.

Like the all embracing rays of the sun, gold is present everywhere in minute quantities--in the atmosphere, in seawater, granite, basalt and diabase. It infuses the earth-sphere with its homeopathic qualities.

The main properties of gold include the three principles of light, elastic fluidity and weight. Gold shines with the brightness of the sun and yet it is heavy, it has a hidden depth of power shown in its high atomic weight and density, being 19 times heavier than water.

The light quality of gold is demonstrated in its affinity with silica 'connected everywhere in nature with certain qualities of light.' It enjoys the company of clear rock crystal, forming veins of pure gold quartz ore.

On the other hand, its 'inner heaviness' is found in the 'pyrite veins of crystalline primeval rocks penetrating deeply into the earth, more deeply than most other metals.' This heaviness is described alchemically as 'the leaden chaos of saturn where the life of the sun and of gold is hidden.'

Rich deposits of gold are found in all continents over the planet, especially in Africa, the continent of the sun, described by Pelikan as 'the center of gravity for gold in the earth.' Gold is often found in deserts where the power of the sun is experienced in its greatest intensity, and in the old lands of geologic history, such as South Africa, Australia, India, Canada and Scandanavia, and the mountains of North and South America.

In gold we see the brilliance of the sun, but other rich colours are also seen in its colloidal solutions, ranging from greenish-blue, through reddish, violet-blue to pure rose -- from the gold of a noonday sun to the radiant colours of sunset.

The infinite extension and purity of the solar rays are also evidenced in gold, the most ductile and malleable substance known. Gold can be stretched to an amazing degree without losing its cohesion--one ounce of this metal can be stretched into a wire almost 35 miles long. Or it can be beaten into the translucency of the finest leaf.

### THE 'OCCULT' GOLD

Not only in alchemy but in other occult traditions we find similar correlations between gold and the sun.

In the Qabala, the sphere of the Sun is called Tiphareth, also described as 'Beauty.' This is the center of the Tree of Life, balancing all the other spheres, or sephiroth, which it connects. Tiphareth integrates all of the forces of the universal Tree leading towards synthesis and unity. As the inner light of spiritual consciousness it is called the Mediating Intelligence, bestowing the vision of the harmony of all the forces of nature.

The colours assigned to Tiphareth are golden amber, rich salmon-pink, yellow and rose. The part of the body it rules is the heart. All sun-gods belong here, and symbolic animals such as the phoenix--the Bennu sun-bird of the Egyptians--and the lion, the creative symbol of the mid-summer sun, the lion of the gold-continent Africa. Astrol-

ogically the sun rules Leo, the zodiac sign of the lion.

The spiritual power and generative energy of the sun are evident in the solar deities of all traditions. The Egyptian god Heru ruled over 'the entire compass of the great circuit of the sun,' and was the golden Right Eye of Ra, the solar power worshipped both in Egypt and Polynesia. In the Hindu religious writings the sun was Surya; in classical mythology the sun-gods included Apollo, Helios and Sol, the Babylonian Shamash, and the Persian Mithras. Among the African pantheon Legba is invoked as the Sun-Lord of the Cross-roads.

Columns in honour of the sun were erected in Peru as in other lands where sun worship prevailed, and during the equinoxes and solstices golden thrones were placed upon them to form a seat for the sun to rest on. In the Great Temple of Cuzco, the chief object of worship was a great golden disk representing the sun.

There are sun-goddesses too, such as the Egyptian Hathor 'the House of Heru,' the great cat Bast, and the lion-goddess Sekmet who incarnated the creative power of the sun at its height. She transmitted this power to her consort Ptah who was powerless to create the eggs of the world and heavens without her. Likewise, the sun-goddess Amaterasu was the supreme deity in the Shinto religion of Japan, and was incarnated on earth in the body of the emperor. Many other female and male deities share these solar attributes, emphasizing the balance and harmony inherent in the sun's nature.

### THE HEALING GOLD

Because of the sun's affinity with gold, the solar deities and spirits were often invoked for wealth, such as the Qabalistic spirit Och who presided over solar matters. He was famous for his wisdom, and could change anything into gold. He also perfected the science of medicine, another quality of the solar deities who were often invoked for their aid in healing the body and mind of the sick.

In the old knowledge the sun was analogous to the heart, and curiously most of the gold found in the human body lies in this organ. The ancient sun-worshippers of Peru and Mexico conceived of the solar sphere as the source of all vital life, and they returned this gift of life to the sun by sacrificing animal and human hearts, symbol of the earthly seat of life.

Alchemically, the heart was considered 'the organ of intuitive, unitive knowledge, which completely transcends all other faculties of the soul. Just as the sun gives the planets their light, so the light of the heart (seat of the spirit or intellect) illumines all other faculties of the soul.'

In the living creature the heart is the centre of the circulatory system in the body, and Pelikan describes its function as combining and regulating the polaric tension between the light forces of breath and air and the heaviness of the forces of matter.

"Under the influence of gold the blood forces swing strongly back and forth between the sense-nerve and breath-



ing organization and the limb-metabolic system.”

If there is too much gold in the system it becomes a ‘poison for body and soul.’ At the level of society this pathology is seen in the lust and greed for gold and the untold blood and human life spilled in the mad gold rushes. In the organism, an excess of gold primarily attacks the circulation of the blood and the heart, and produces mental states of hopelessness and despondency with a great desire to commit suicide. The creative energy of the sun becomes instead intensely self-destructive. Homeopathic preparations of gold in minute quantities can be used to remedy this dangerous imbalance.

As the heart is the centre of the circulatory system in the body, so the sun is the centre in the greater body of our solar system. Georg Blattman in his contemporary study on the sun,<sup>5</sup> describes our planetary system in terms of a great vortex in its law of movement, with the outer planets circling more slowly on their orbits, while the movement of the inner planets increases in velocity towards the centre.

In the rapid spinning of a vortex a hollow funnel is seen to form boring its way down to the bottom, and in Blattman’s concept of the planetary system as a huge cosmic whirlpool, this suction tube in the middle corresponds to the hollow space in the sun’s centre.

A hollow sun indeed! This is surely a radical departure from conventional scientific theory which describes the sun as a monstrous thermo-nuclear reactor spewing out deadly radiation; a projection of their own death culture upon the supreme symbol of life.

But, for the alchemists, the heart *is* the inner sun; the heart *is* hollow, and as I understand, it is the only muscle in the body which stays continuously hollow. Like the sun it is the only bodily organ which is self-sustaining, and with its motions of contraction and expansion it images the cosmic rhythm of the Winter and Summer Solstices. “One heart beat represents the same interplay of forces as there is to be found in a solar year.”<sup>6</sup>

In the structure of the heart we also find a spiral pattern. The muscular fibres of the ventricles form what is called the *vortex* as the fibres turn suddenly into the interior in a ‘peculiar spiral manner.’

Following this spiral path into the centre of the heart, the alchemist of old found the gold of the inner Sun to be one with the solar sphere in the heavens—an immeasurable ocean of light pulsating with vast tides and rhythms, as Blattmann describes it, reaching out from the centre to the furthest member of the solar system.

“Incessantly as breathing or heartbeat, the living rhythm of our mother star takes place.”

### THE KOLISKO EXPERIMENTS

“Science must again become a holy art, if an unholy natural science is not to lead mankind to destruction.”

After exploring these noble qualities of gold and the sun, it’s time to return to the hard world of science and the

experiments of Lilly Kolisko. Stimulated by the insights of Rudolph Steiner, she began a series of experiments to demonstrate the workings of the stars and planets in earthly substances. This was back in the 1920’s to 1940’s.

I have chosen two of her experiments here, carried out during solar eclipses, to illustrate how the influence of the sun is mirrored in the metallic salts of gold in particular, and silver.

In the case of gold, Lilly Kolisko used a solution of gold chloride poured into a glass vessel with a strip of filter paper inserted; for silver, the solution was silver nitrate. Each experiment produced a picture on the filter paper, a ‘signature’ of the metal being used. (Unfortunately the subtleties of colour in her photographs of these experiments will not reproduce well enough to print here.)

She writes:

“In the case of the pictures of silver we find that the wealth of *forms* is so great that it is impossible to present one picture only of silver...In the case of gold, the *colours* are so rich that many pictures must be observed before we can realise the nature and character of the metal. The colours that make their appearance vary between pure yellow and dark violet.” These colours appeared on the filter paper even in a dark chamber, proving that light had no direct influence upon their manifestation.

These twin qualities of silver and gold echo the old alchemists who stated that the sun and the moon are two poles of existence, with the sun as the source of light and the moon as the surface that reflects it. The *form* of the moon or silver changes, like a mirror it is colourless and reflective, and is symbolic of the soul; while gold unites in itself all ‘metallic light’ and *colour* and remains the same, and symbolizes the circle of the spirit.

During a solar eclipse on June 29th, 1927, with these two heavenly bodies united, Lilly carried out experiments before, during and after the darkening of the sun. She describes them as follows:

“On June 27th we have a normal picture of gold, whereas on June 28th it has become somewhat cloudy. Various specks and strokes have made their appearance and the picture looks almost dirty... The picture obtained at the time of the eclipse manifests the above-mentioned phenomenon still more strongly. A large number of specks have appeared. The colours are not so luminous as on other occasions; their tones are mostly brownish-red dirty violet. It is altogether an unpleasing picture.

On June 29th at 5.19 p.m. the picture of the gold has become quite clean again; the colours are more luminous but they have not yet assumed their natural, inherent beauty and purity.”<sup>7</sup>

During the later solar eclipse on 20th May, 1947, Lilly carried out further research at Greenwich where the sun was invisible, and found that each eclipse produced specific effects reflected vividly on the filter paper no matter where the physical sun was at the time.



In a book published on these experiments she wrote: "It means that we must look upon the sun not only as a heavenly body streaming down light and warmth to the earth from one particular spot, but surrounding, enveloping the whole globe with its sphere. When something spectacular happens, such as a total eclipse, certainly we see it happen at a definite place, observing the moon covering the sun, but the whole sunsphere is affected, and the whole earth participates in it"<sup>8</sup>

She found the same phenomenon occurring this time, with the gold pictures turning a dirty purple-brownish interspersed with dark spots. The colour scheme was also reversed, and it looked as if the picture was burnt into the filter paper, as though from an excess of sunlight. After the eclipse had passed the gold chloride regained its power to rise and there was a definite return to the normal appearance. But some disfiguring spots showed the after effects of the eclipse still lingering.

Further experiments were carried out to study the behaviour of gold in relation to other metallic salts during the time of the eclipse. It was discovered that the relation of gold to lead was the least disturbed, but in the solution of silver and gold, the lunar influences completely eclipsed the sun-yellow sediment, leaving a washed-out grayish violet colour which turned to black.

Just as living beings are in some way affected by the sun's eclipse, so are these other 'dead' substances changed in their inner texture. As the sun's strength waned, so did the working of gold appear to weaken on earth. In olden times it was common among native people all over the world to kindle fires during solar eclipses, or shoot burning arrows towards the sun to help return its light and strength. Fires were also lit on other significant days to celebrate the tides of the changing seasons, such as the solstices and equinoxes.

Lily chose certain of these festivals for further experimentation, and again found gold expressing the sun's influence - truly the 'earthy sun' of the alchemists. The pictures formed by gold salts were very beautiful in the spring, especially at the exact time of the Spring Equinox. But the most striking appeared on the day fixed by the Astronomer Royal as Easter Sunday--the first Sun-day after full moon after the Spring Equinox. This day continues a long pagan tradition of celebrating the emergence of life from the darkness of winter, with its symbolic egg from which the sun was said to be born.

Concerning this picture she wrote:

"Never, in all the years of experimenting with gold and copper, has a similar picture been formed. It stands there unique in its beauty of colour and strangeness of form."<sup>9</sup>

Strangely enough, the day judged Easter Sunday by the church authorities, produced pictures which were judged as a whole, to be more or less insignificant.

To conclude this circular path which the sun has taken us, we return to those old temples of the sun-gods and god-

desses. Who were the spirits of the sun our forbears worshipped? What were they really doing in those golden temples?

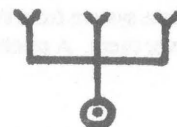
We have barely touched upon the outskirts of the mysteries of the Sun, and the role of gold as its earthly ambassador. The inner mysteries remain hidden in those gleaming ritual ornaments and objects of gold used in the temples of the ancient gods. We know that in a very direct way they linked the priest and priestess in a circuit with the essence of the sun itself.

We also know gold to be an excellent conductor of electricity, and, as we have seen, of forces yet to be understood; the forces which the ancient sun-gods personified. Perhaps, as John Keel writes in *THE COSMIC QUESTION*:

"If the ancient gods were real in some sense, they may have come from a space-time continuum so different from ours that their atomic structure was different. They could walk through walls because their atoms were able to pass through the atoms of stone. Gold was one of the few earthly substances dense enough for them to handle. If they sat in a wooden chair, they would sink through it. They needed gold furniture during their visits."

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# 1989 BSRF DESERT EXPEDITION

Report by Tom Brown

The desert is a primary area of borderland research. In the late 1950s Trevor James Constable took his status quo shattering infrared photos of atmospheric "critters" in the Southern California desert. Dr. Wilhelm Reich made a desert expedition in the mid-1950s to test his "cloudbuster" invention and in the process "contacted space." The desert is a place of mystery and enchantment. It is a good place to learn through experience how limited the human body is on the face of the earth. It is a borderland between the life and death of a planet.

We undertook an expedition to the Utah desert in June of 1989 for several purposes. Firstly, to view the desert as a polar opposite to the forest in which we reside and attempt to understand the life which exists across the border of the lush vegetation covering portions of this planet. Secondly, to psychometrize the unique rock formations in Arches National Park and Canyonlands National Park and attempt to get a grasp on their origin and purpose. Thirdly, to attempt to reproduce Trevor's infrared experiments to see if we could photograph any atmospheric life forms unseen by the human eye. Fourthly, to fully test the Borderland vehicle (1983 Toyota 4WD) which we purchased to undertake such expeditions, besides its primary use of getting us to the Post Office daily.

**Saturday 10 June 89:** Prepared vehicle and supplies. Leave BSRF headquarters at 10PM to night drive. California Hwy 101 S to Hwy 20 E to Interstate 80 E.

**Sunday 11 June 89:** Drive all day across Nevada & the Utah salt flats. Arrived Moab, Utah late afternoon & stayed at hotel to recover from 20 hour drive.

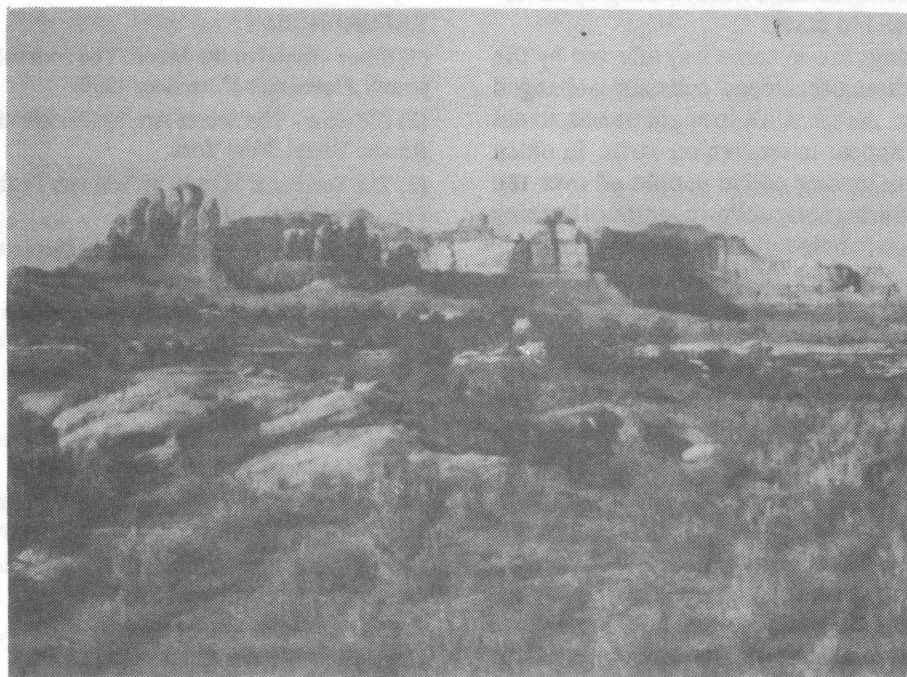
**Monday 12 June 89:** Head to Arches National Park & set up camp. Hiked through rock formations & found natural "kiva" hidden from the "beaten path." Also found campsite an excellent area to watch the formation of storm fronts to the NW and the SE. The La Sal Mountains to the SE were very active weather-wise and a complete system from stratus to cirrus formed into nimbus and rained over them. A smaller front formed to the

NW, crossed our campsite and merged with the La Sal activity. This was a perfect spot to undertake a study of the desert weather organism. The weather brought harsh winds and sharp rain—very desert like. We took a drive in vehicle over jeep trails. Crossed some very difficult territory, where we had to build the road with rocks, but had to turn back as terrain got too difficult. Around dinner-time another front formed to the NW and moved across again to the La Sal weather organism, which maintained its activities throughout the entire day. Harsh winds and rain before sunset. Sunset calm. Harsh winds all night after sunset calm. Studying the map I could see that the fronts moving from NW to SE were following the geological formations which comprised Arches.

**Tuesday 13 June 89:** Very clear and windy to start day. Morning hike through Devil's Garden (why are such earthly beauties always named after the devil?). Incredible stone formations with arches and standing stones. To the north a definite wall shape marked the edge of the formation area with a vast, bleak desert beyond. Could see distant hills NW where yesterday's fronts formed. Puffy cumulus clouds just above stratus mode.

Not as intense but same basic actions as yesterday. Could see active weather organism over La Sal Mts to SE. Southerly section of Devil's Garden was like ruins of ancient city. Later in day I hiked about 6 miles through rock formations surrounding campground. Lots of bugs in afternoon. Got good impressions of earth-weather flows in area. Dark clouds formed to NW before sundown & expanded over camp during sunset. Before sunset saw clouds overhead with indefinite

edges, very fuzzy in contrast to sharp clouds in same sky—positive & negative clouds. Many jet trails overhead all day—modifying into cirrus clouds, a phenomenon which I've noticed over northern California on many occasions. (Its amazing to see what a profound influence airplanes have on the weather.) UFO type clouds to SE over nearby formation with hidden natural kiva. Shot



"Baghdad-like cities of stone looming in the distance..."



B&W film, practiced loading film in dark in preparation for infrared (IR) work to come in Canyonlands.

Wednesday 14 June 89: Packed in morning & drove to Canyonlands. Hiked to Delicate Arch before leaving Arches. Got overall impression of Arches. It is basically two sections of formations, both looking like the ruins of ancient cities from afar, becoming like abstract sculpture up close. Very curious—hard to believe in erosion. The formations have definitely eroded, but that was after they were formed—merely wear and tear. Mixed cloud activity along the way—cirrus to cumulus. Stopped at Newspaper Rock, many types of Native American pictographs, & photoed with color. Drove jeep trail to Salt Creek Canyon & set up camp in Peek-A-Boo campground. Peek-A-Boo is site of two stages of pictographs. The most obvious layer is Anasazi, about 700-1200 years old. Behind that layer, very faint can be seen square shouldered bodies with big heads, from an unknown culture. Very spaceman looking and like some found in Gobi Desert and Australian outback. Also lots of painted hands from both styles around this area. Had impression that one group of hands was Chinese! Felt this would be good spot for IR work. The walls of Salt Creek canyon look like they were built—much older than Tiahuanaco—but not built by man. They are huge. Near sunset clouds began to look like pictographs on canyon walls. After sun went behind Peek-A-Boo wall low UFO type clouds changed color in a metamorphosis from red & gold to black with high white cirrus as a backdrop. Prepared for IR in early morning.

Thursday 15 June 89: Cool morning—sky clear. Woke about 5 AM & shot 36 exposure IR by pictographs. Settings were F-22, infinity, ASA 100, speed 500. Shot with and without Wrattan 18A filter, about 1/2 each way. Took early drive further down Salt Creek Canyon in search of more formations, pictographs, and hopes of seeing ruins. Trail was good test for 4WD. Handled well. Hike up cliffs to ancient structures & pictographs. What looked like cliff dwellings from the canyon floor became small granaries up close. Found very interesting pictograph, stylized human body with moving objects surrounding. Realized it was a swastika, per-

haps showing the interaction of humans with UFOs or etheric critters. Very curious. Drove further and hiked to Angel Arch. Heavy heat begins. Found fresh water pool with tadpoles & insects all looking very healthy in the midst of heat and rock. Hiked further up Salt Creek. Side canyon reveals flint mine with hundreds, perhaps thousands of worked flints. Further up Salt Creek find many more “granaries” but no evidence of actual habitations. Many canyon walls looked just like masons built them. Very hard to believe that erosion was the main formative culprit. Some canyon walls looked like they had human built structures but up close were merely fractured rock. In some spots it was very hard to tell if humans or natural formative forces built the stone piles. Perhaps the formative forces of old condensed into the humans that lived in the area. Back to camp in afternoon heat. Much more intense than previous day. Hot winds, sucking heat. Distant cumulus clouds to south over mountains. No UFO or pictograph clouds, no color in sunset.

Friday 16 June 89: Woke about 5 AM. Already hot! Shot IR roll #2 around Peek-A-Boo, ASA 400, F2.82, infinity, speed 125. Walked around pictograph wall & shot from many angles. Packed camp early and moved to Squaw Flat to check out Needles area. Got refilled with water and went on hike. Went about 9 miles through curious formations and walls, with Baghdad-like cities of stone looming in the distance. Shot more b&w of formations. Incredible

place, well worth pushing the physical body to the limit to feel the incredible earth energies present in this area.

Saturday 17 June 89: Woke early for drive home. Came back on I-70 through more interesting cliffs and formations. Took Hwy 50 through Nevada & experienced the vastness of the high desert. Before sunset stopped and saw pictographs looking quite Hindu, supposedly where the ancient native Americans trapped seasonal flows of animals. We didn't buy the animal trapping story, but the pictographs were very interesting. Drove through night and arrived in Garberville area around 9AM Sunday.

We shot a lot of film on this trip to document the areas of most interest to research of this type. We found it is near impossible to



Enigmatic messages. Notice antennae on humans! Newspaper Rock, Canyonlands



capture what one sees in these formations on film. The experience of being there can only be had by being there. The infrared photography did not work out too well, with only several rocks showing up on the second roll. There is much room for improvement in my technique, but now I know how to proceed to get results rather than blank film. My problem was underexposure. My thanks to Richard Toronto for his help in developing the IR film properly, and to him and Trevor on how to proceed in the future.

The general feeling that I got from experiencing the curious formations and weather in this area was that the earth force still is very much alive. The sheath of vegetation covering a portion of the surface of this planet tells of the relationship between the terrestrial forces and the cosmic. Where there is lush vegetation of any kind there is a downpouring of stellar and planetary forces at work. In the desert the earth force is overpowering, it is a tremendous place to contact the deeper recesses of our planetary mind. The stones did not appear to be eroded into shape. They were definitely eroded, that could be seen, but the erosion came after the formations came about.

My impression was that the areas that look like cities actually represent areas of the planet where, in past stages of formation, the intelligence and formative force was directly bound up with the rock. The "cities" that remain are but the skeletons of higher order intelligences that eventually evolved and separated from the stone. The intelligences became the manifesting and guiding force of the animals, plants and humans that peopled the areas. We hear the standard stories of how the Native Americans travelled across the Bearing Straight, but how did they manifest in Asia? I feel that humans came from stone, just as Morley-Martin and Littlefield showed that life can form from stone. The Life Ether, the finest and highest of the etheric forces, is related to the earth element, the dense matter of manifestation.

The weather organisms of the desert are integrally tied into the stone formations. This is actually what happens all over the planet, the structure of the earth regulates the flows of the etheric that drive the weather. As the weather is regulated by the sun,

moon, planets and other cosmic forces in combination with the terrestrial force and form so do we see a harsher climate as well as a harsher vegetation. Dr. Reich felt that the deserts should be turned green, that they were formed from aberrant human behavior. This is true of croplands turning to dustbowl, but the core desert, with its beautiful formations and hardy plant and animal life is a necessary organ of our present earth structure and is something that should remain on the planet without the manipulating interference of the European mind. It is a healing place from

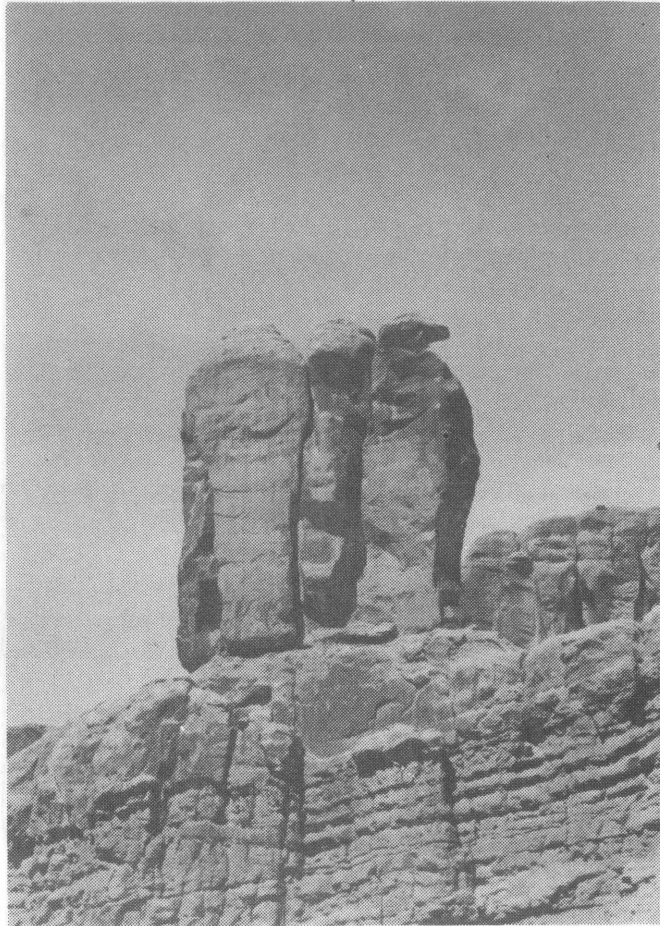
which to draw strength and knowledge. It is a repository of ancient and future mysteries.

The ancient intelligences are still in the desert, that is what makes it such a special place. They are still present and can be seen and felt by experience. They cannot be quantified, but perhaps with a bit of persistence they can be shown on infrared film.

We have heard of other interesting areas such as the 'Cassia City of Rocks' in Idaho, wherein the rock formations do not match with current conceptions of "erosion" or uniform formation of the planet. There are also many other mysteries in the western desert of the US. We have several reports of giant skeletons being found in places including Lovelock, Nevada. We will try to track these down and get pictures for this journal. There are the traveling rocks at Race-track Playa, Death Valley, California which I've wanted to investigate but never had a vehicle that could take the hard desert drive on the jeep road past Ubehebe Crater—a 'volcanic' crater that threw off 'bombs' that made smaller craters. Or so the sign says. There are the vast road and irrigations systems

near the Four Corners area built by ancient cultures in an area where there is now just desert but must have once held a large population. Who were these people and where did they go? What was it like when they lived there? I would like to find out.

To solve a mystery one must examine the evidence. The mysteries of our planetary existence are manifold. It is human nature to examine the natural wonders of our surroundings. We will track down some of the most interesting places and bring our impressions and pictures back. It's just part of the job.



Mysterious "Egyptian" statues... Arches

Book Review:

## DISNEYLAND OF THE GODS

by John A. Keel,

Amok Press, Box 51, Cooper Station, New York, NY, 1988, 174pp, \$8.95

Reviewed by Vincent H. Gaddis

This is a curious book. Just beyond the realm of our mundane lives, the world of daily occupations, pay checks, mortgages, and getting the kids off to school, is a weird outer domain where puzzling events are taking place.

Who or what is making square holes through the ice of remote Scandinavian swamps and leaving behind no residue? Huge chunks of ice fall from the sky and frighten innocent citizens. No, they don't come from the sealed holding tanks of airliner toilets, but from strange ice fields in the stratosphere.

Perhaps related to the ice falls are the skyquakes. They are the Seattle shocks of Washington and the Moodus Blasts of Connecticut. They come and go in response to cyclic fluctuations beyond our ken. Here on the surface of this spaceship we call Earth is the mystery of the mutilated cattle, sucked dry of blood with reproductive organs removed. A grim trail of 175 carcasses across Colorado in just four months in 1975 is an example. Want to get rich quick? Give the Colorado Cattlemen's Association the answer and you will live in fabulous luxury the rest of your life.

Then there are the phantom animals. Huge black dogs, leopard-like cats trot across the landscape; ghostly kangaroos hippy-hop over Kansas cornfields and along Michigan highways. There's our old friend Sasquatch or Bigfoot who inhabits the Pacific Northwest but is occasionally reported in other parts of the country and the world. He is tall, hairy, apelike, and carries with him a stench that would fell an elephant. They are observed by reputable witnesses. Yet they vanish and leave behind no bones or blobs of excrement.

What goes on here, folks? Are these critters popping out and in a parallel world, an anti-matter realm, a fourth, fifth or sixth dimension?

So many mysteries! So few, if any, solutions! Every proposed answer raises more questions than it solves. There will never be an end to every search for knowledge. There are no absolutes.

And now we come to what has been called the great riddle of the twentieth century—the flying saucers, the unidentified flying objects (UFO's). There is evidence that they have always in one form or another plagued humankind, but the modern period of their observation and recognition followed the "foo-fighters" of World War II. Some folk suspect that it was the beginning of the atomic and space ages that increased their appearances.

Where do they come from? Having no knowledge of the many worlds, realms or planes of existence, it is natural that a majority of believers in UFO's decided that they were of outer space origin. But what heavenly body could be their genesis? Venus was too hot to support life as we know it. Mars was too cold. But wait a minute! Among the photos sent back by a Mars orbiter is one of a huge human-like face seemingly carved from rock. Since it was photographed from two angles, it hardly seems to be an illusion of light and shadows.

Not far away from the face are what appear to be pyramids. Now the Great Pyramid of Giza in Egypt is perhaps the oldest human monument on earth and probably predates the historical Egyptians. Much pseudo-scientific rubbish has been written

about this ancient structure which was not built to be a tomb at all. We have detailed records of everything from crop failures to weddings, but not a single papyrus telling us how the pyramids were built, when, or by whom.

Moreover, as John Keel tells us, pyramid building was once a universal practice throughout the world. They are to be found in Mexico, China, Great Britain, North and South America and on remote islands of the Pacific. Is the pyramid a Martian symbol?

Once upon a time Mars must have been habitable. There must have been warm, sunny days when the Martians of long ago rode their boats on the waterways and lived and loved on the plains now bare and barren. And then the winds grew chilly and slowly the icy fingers of the forthcoming long winter gripped the planet. Mars was dying. The Martians were forced to migrate and leave their home forever. Did they come to earth? Did they come and build the pyramids all around our spaceship Earth? Does Martian blood flow through our veins? But I digress, Sorry!

The occupants of the UFO's are not Martians. They are part of the earth complex. They are of interdimensional origin. Awhile back astronomers were telling us that of all the great suns moving through the velvet night of space there must be some with life-bearing planets. So they trained their radio telescopes on the mighty mainland beyond. They listened and all they heard was the mindless erratic static of distant pulsating stars. But humans are impatient. Now the tide of fashions in belief has changed and astronomers are suggesting that we are the only intelligent beings in our part of the cosmos, that we are very much alone.

The UFO occupants or ufonauts may not be extraterrestrial, but they are alien. This organization (BSRF) was founded over forty years ago by Meade Layne and this writer was a contributor to this publication (originally *Round Robin*) from its beginning. Keel writes: "He (Layne) saw links between the UFO's and psychic manifestations. He labeled the UFO pilots 'Etherians' and speculated that they did not come from some other planet but were crossing over into our reality from some other dimension or space-time continuum. It has taken ufology forty years to catch up with him."

Keel also tells us that Layne coined the words "mat" and "demat" (for materialization and dematerialization) to describe their behavior. "Years later," Keel continues, "photographers equipped with infrared lenses and film added to the puzzle by successfully photographing aerial objects which were not visible to the naked eye. Apparently the disappearing act really consisted of an ability to somehow traverse the visible spectrum of light (which is very narrow) and pass from the invisible field of infrared at one extreme to the invisible area of ultraviolet at the other extreme." (p. 139) Borderland readers will recognize that Keel is referring to the atmospheric "critter" photographs taken by Trevor James Constable.

Keel points out that Layne's method of contact with the Etherians was simple but unscientific. He communicated with them through trance mediumship. He writes: "As a parapsychologist Layne was familiar with the weird phenomena of materialization.



And it occurred to him that UFO's were following the unnatural laws of psychic phenomena. Their appearances and disappearances could be equated to the materializations of ghostly entities in the seance room."

However, to be more scientific, Keel offers evidence that UFO's are related to geomagnetic disturbances. There is a definite correlation between UFO waves, or flaps, and fluctuations of the earth's magnetism. There is nothing new about UFO's. They have apparently haunted humankind since our beginnings.

Changing their names and physical appearances to suit the times and beliefs of each age, they have been the fairies, gnomes, leprechauns, lamia and Lorelei of earlier times. They have been the tricksters of Indian lore. To each people they have been super-normal visitants.

Now, in recent years, there has been a grim change. They have been posing as space brothers. They are not brothers or sisters. They will not bring us a cure for cancer. They will not give us the technology to travel to the stars. They will offer no solution to our world-wide economic problem that is heading toward universal bankruptcy.

In appearance they resemble embryonic caricatures. In communication they are like the alleged "spirits" that manifest through ouija boards. They are liars. They tell contactees what they want to know. When they find out that contactees believe they are from outer space, they say they are from mythical planets: Murdock, Surideon, or Bunkearn.

"Why," some innocent folk ask, "don't they land on the White House lawn if they are from another realm, asking 'Take us to your leader?'" Considering the nature of governments in recent years, and what seems to be the reason for their visits, the last place they would want to land is in front of 10 Downing Street, atop the Kremlin wall, or on the White House lawn.

And what is their reason? Far from coming here to help humankind, they seemingly have a nefarious purpose. Any survey of contactee cases reveals hardly a single act of kindness, thoughtfulness or aid to humans. Such examples are very rare. How rare? Well, about as rare as finding a virgin at Nevada's Mustang Ranch.

They are using us. Far more than a mere annoyance in our ordered lives, we are guinea pigs in what appears a breeding experiment. This is frightening. Just as frightening is their ability to induce amnesia in their contacts, to brainwash, to wipe out our memories that can only be restored by hypnosis. And all through these contacts runs a heavy pattern of sensuality.

The story of Betty and Barney Hill is well-known and was even the subject of a TV network special program. They began having nightmares that became so severe that they became patients of Dr. Benjamin Simon, a noted Boston psychiatrist. Under hypnosis, independently, they remembered being taken aboard a "saucer" and given physical examinations. Betty recalled having a needle inserted through her navel and nail parings and skin shavings taken. Body fluids were apparently removed from Betty, but it is not clear if semen was taken from Barney as it was in similar encounters.

The Hill experience is typical of other contacts. More to the matter of breeding, however, is the story of Antonio Villas Boas of Brazil. In 1957 he was taken aboard a UFO. The humanoids removed his clothing and covered his body with a thick liquid using a sponge. Then they introduced him to a nude voluptuous female Etherian. If there is a contradiction in terms here, so be it.

This liquid had to be a strong aphrodisiac. Despite his youthful virility, being in such bizarre circumstances with an audience to boot was hardly likely to get him in the mood. Nevertheless they

had a quickie, then the humanoids tossed our hero and his clothes out of the "saucer" like a fruitless banana peel. If we should be so unfortunate as to meet the offspring of this weird union, we can be certain that mama's genes would be the most dominant.

The Boas case is a classic in UFO annals, but it is not unique. Female contactees have become pregnant from humanoid Casanovas. One might have cause for suspicions when the offspring appear normal. It's a more interesting explanation than being impregnated by a soul kiss or a toilet seat. There are other cases, however, when it seemingly has happened. Keel has kept in close contact with some of these ladies and followed the developments with interest. The children have displayed exceptional intelligence and occasionally poltergeistic manifestations during their early years.

This, plus additional evidences, has led to a growing belief that there are hybrids and sleepers walking among us. Some of these persons are not aware of their nature until a crisis, nightmares or hypnosis reveals it. Consider Whitley Strieber's experiences as related in *COMMUNION*, a book that was on the *New York TIMES* top best-seller list for many weeks, and the revelations by other "quiet contactees" that followed its publication.

Some of these individuals and others whose contacts are buried in their subconscious minds may be "sleepers," unknowingly under the control of intelligences, human or humanoid, who can cause them to act in a certain manner at any time. This is a frightening situation.

Permit me to digress again. For many years the late Long John Nebel conducted a night radio talk show over WABC, Radio City, New York, that was very popular throughout the eastern states. He interviewed unusual persons: writers, mindreaders, magicians, fortune tellers and alleged contactees. I was on his program twice promoting my own books. Riley H. Crabb, who directed this organization for many years, was a guest. Some strange things occasionally occurred on the program. You can read about the show in his book *WAY OUT WORLD*.

Candy Jones was a famous model and wife of Long John. I never met her, but Keel was a member of a group that supported Long John and served occasionally on his panel. What Keel writes about Candy was a revelation to me and so surprising that I will quote his statement. "Through hypnosis and drugs, the CIA turned her into a deep cover spy. She was sent on missions in a trance state, using a false name and even, believe it or not, a false personality given to her through brainwashing techniques.

"When she returned from these missions she resumed her own life and personality, and had no memory whatsoever of her escapades as a spy. She was a victim of an intelligence practice that has been in use for forty years."

Similar sleepers are common in UFO phenomena. Such individuals carry out various tasks, but have no conscious memory of their actions when they return to their normal lives. They have been, as they say, "Used." Keel has found that such persons are very suggestible, easily hypnotized, and possess latent or active psychic abilities.

False memories can be implanted to cover the period of the mission. Also fictitious memories of a trip to another planet can be implanted at such times. Time itself can be distorted: an event that seemingly lasted several days can be implanted within a few minutes.

Bring out the clones! A clone is an exact duplicate of a living organism, and, theoretically, can be created from a single cell of your body since each cell contains all the biological information necessary. Is this why the Etherians sometimes take skin scrapings



from the arms of contactees.

Our report becomes more fantastic as we go along, doesn't it, folks?

Doubles, like identical twins, can be disturbing enough. All of us are supposed to have a double in appearance somewhere. But clones! Really! Yet Keel himself, along with other well known ufologists, have been observed by reliable witnesses at places where they could not possibly have been. Such appearances have been called doppelgangers in psychic lore. "Were these characters clones; physical entities made of solid flesh?" Keel asks. "Or were they psychic projections of some sort?"

Keel suggests some of the ancient gods may have been Etherians or aliens. As the fairies took kidnapped humans to their caverns, so the gods may have taken them to a Mt. Olympus. As students of fairy lore ancient and modern know, fairies were not all "wee folk," but could be as large as humans.

There is the ancient legend that the gods came down and cohabited with the daughters of men. Does this mean that along with the blood of Martians we have a possible strain of humanoid blood? Are the aliens our cousins many, many times removed, thank heaven?

If, dear reader, you think some of the notions expressed in this review are fantastic, you should hear some of the wild rumors circulating in the ufological underground: that the aliens have secret bases on our physical plane, that some world governments have treaties with them, that our own government has a couple of live humanoids under the secret witness program being pumped for information that will keep us ahead of the Russians. There are the enigmatic men-in-black who plague UFO witnesses and ufologists and who can seemingly read our minds.

"I think we're property," Charles Fort wrote. "Someone owns this earth. All others are warned off." The alien humanoids who inspect us as we inspect cattle are probably not earth's owners. We can only hope that the book the humanoids carry around titled "*How to Serve Man*" is not a cookbook.

Beyond the humanoids may be the real owners that are, perhaps, our only hope. Keel calls these beings The Watchers, part of what H.G. Wells called W.O.W. - Wings Over the World. They have been given other names such as the White Brotherhood. Humans may be just pawns in some unintelligible cosmic game.

In his book *People of the Secret*, Ernest Scott writes, "Are both biological evolution and human history directed by a hierarchy of intelligences, the lowest level of which makes physical contact with mankind?"

There seems little doubt that we have been under surveillance, probably from the time of man's appearance on this mudball. The evidence for these observations takes many forms, but one is especially interesting. There is a satellite circling the earth. Since it was discovered long before man began throwing so much junk into orbit, it has been considered a small second moon. Now minds just as intelligent as my own have suggested it was placed there long ago to keep an eye on us and record our progress such as it is. We may even have received messages from it in a code unknown to us.

What of the future? From a technological standpoint it is great. Progress is so incredibly rapid that within weeks the electronic equipment in our homes is out of date. We are well on our way to developing a computer that will surpass the human brain and be able to independently think.

But in other endeavors the handwriting is on the wall. We are staggering along the same downward trail taken by the fabled Atlantis, of Sodom and Gomorrah, of great empires of the past. I

must agree with John Keel. We see little hope for a brave new world. Quite the contrary. He writes: "Educational systems are collapsing worldwide. Illiteracy is rising so fast it can hardly be measured. We are becoming a race of animals living only for the immediate moment, with no vocabularies, speaking in grunts.... In 1967 there were five billion of us. In less than twenty years there will be ten billica."

And, may I add, art will continue to be mediocre. Music so-called will continue to be repetitious and monotonous and at a level to break eardrums. Where are the stardusts and blue heavens of yesteryear?

The resources of space ship earth are vanishing at an increasing rate as world populations increase and countries become more industrialized. Coal and oil turn to smoke and gas and are non-biodegradable. Stone crumbles and iron rusts. Battles between environmentalists and capital-labor grow more intense. With the greenhouse effect and a warming planet, we appear to be entering a period of droughts. Water may become more valuable than gold.

Electronic pollution saturates the ether. Waste materials, too, have reached a saturation point. A garbage barge sails halfway around the world only to be forced to return home. Our wildlife is vanishing almost at the rate of a species a day.

Stress and strain characterize our culture. Motorists are shooting at each other on California freeways. In New York people are killing each other over parking spaces. A man goes berserk with a gun or axe and wipes out his family and himself. His friends and neighbors report he was a good kind man, a pillar in the community who went to church every Sunday.

The decline has invaded all aspects of our culture. Madmen at the head of governments are stockpiling chemical and atomic weapons to use on their neighbors. The "Me First" movement has become popular with selfishness and greed acceptable qualities. Corruption has invaded the highest levels of business and government and at times is even condoned.

The blight taints the most intimate aspects of our personal lives. Permissiveness in sexual relations is characteristic of modern life, but the romantic subsidies of music and perfume are left to a sophisticated few. Perhaps not one man in ten thousand has studied advanced techniques that stimulate the nerves of little-known erotic zones to heights of ecstasy. What should be an art ends up, if I may coin a phrase, little more than an orgasmic sneeze.

The winds of descent grow ever more warm. The clock of disaster ticks toward midnight. Only a catastrophe, a revolution in our thinking and lifestyles, will reverse this trend toward oblivion. Like the prophets of old, we are harbingers of doom.

The aliens, the humanoids are not the types of beings you would want to take home and introduce to mother, but they are not stupid. Quite likely they know very well what is going on. In fact that may be the reason they are showing up in such increasing numbers. Are the humanoids also in decline, perhaps facing extinction? If so, are they seeking to introduce a human strain into their generic inheritance?

"In its early time," John Keel writes, "the earth may have needed man, but now we have become a plague threatening the entire organism. The signs and wonders of our present day may be the subtle beginnings of global convulsions to come—convulsions that will spring from the planet's urge for self-preservation and ultimately destroy us. The earth is not inhabited. It is infested."

As you now know, dear reader, this reviewer is a conservative straight-square reactionary pessimist. So be it! But cheer up, folks. Eat, drink, and make love (as best you can.) Apocalypse is on the way.

## CATASTROPHISM AND THE OLD TESTAMENT *THE MARS-EARTH CONFLICTS*

Book by Donald Wesley Patten

Pacific Meridian Publishing Company, Seattle, Washington

Reviewed by R. G. Williscroft

In *Catastrophism and the Old Testament: The Mars-Earth Conflicts*, Don Patten has taken on the intriguing and daunting task of "updating and correcting" Immanuel Velikovsky, author of the famous and controversial three-book series on historic cataclysms: *Worlds In Collision*, *Ages in Chaos*, and *Earth in Upheaval*. Patten took a first-order stab at identifying Biblical happenings with historic, astronomic, and geologic data in his first two books, *The Biblical Flood and the Ice Epoch* and *The Long Day of Joshua*. In *Mars-Earth Conflicts*, he pulls out all the stops.

Immediately in the first chapter Patten comes out "swinging" at the traditional scientific community whose point of view he labels "uniformitarian," and at the traditional creationists whose viewpoint he labels "Fiat Creationism." He lays a two-track foundation for his following arguments: (1) that Uniformitarian Scientists do not perceive, and therefore reject "cyclic catastrophism"; and, (2) that Fiat Creationists do not understand events in the Old Testament, despite their contrary claims, because they reject the timing analysis of these events that suggests cyclicism.

Patten detects the planet Mars in the Old Testament in ten motives, and he identifies a thousand Scripture verses that he says describe the myriad effects of catastrophism. He makes a special case for integrating catastrophic events on Mars, Greek mythology, and Old Testament accounts. In fact, Patten frequently goes beyond Biblical tradition by citing prime sources other than the Old Testament for his findings. He refers extensively, for example to the Assyrian *Epic of Gilgamesh*, to Hesiod, to Homer of ancient Greece, and to Josephus. Within the framework of *Mars-Earth Conflicts*, Patten treats the Old Testament as history rather than as theology, which might not sit well with some.

The underlying thrust of Patten's arguments is that in the relatively recent past, the planet Mars occupied a radically different orbit from its present one. Mars and Earth were locked into synchronous periods that resulted in their approaching each other in relatively close flybys twice every 108 years for several eons. Each of these flybys was accompanied by catastrophic occurrences on both planets. For evidence, he cites historical literature, and he reexamines a massive amount of accumulated data from the physical sciences from which he culls some significant material.

Patten has collected around him a small "brain trust" of experts in various aspects of physics, engineering, geomagnetism, and celestial mechanics. He uses their input to help develop a model that he then uses to establish a scientific basis for his subsequent arguments. He provides

a detailed account of the recently discovered flux tube of ions and charged particles that connects the planet Jupiter to its inner moon Io. Basically, this flux tube is an electrical connection between the two heavenly bodies that allows massive exchanges of electrical energy. Scientists postulate that there are spectacular and even cataclysmic events that take place on both bodies resulting from this flow of energy. Based upon this model, Patten postulates a similar flux tube between Earth and Mars during close flybys. Patten is sufficiently confident of his analysis that he actually dares to predict that another flux tube of ions and charged particles will be discovered by Voyager between Neptune and its moon Triton in the 1989 flyby. This yet-to-be-discovered celestial phenomenon will add further weight to Patten's arguments, should it turn out to be real. He examines orbit interactions, crustal movements, magnetic pole reversals, mountain range upheavals, and vulcanism on both Earth and Mars. He carefully considers planetary rotation and associated spin-axis torques and gyroscopic precession, ice-sheet distribution and composition, and geologic strata.

In *Mars-Earth Conflicts* Patten explains much of the puzzling geological and astronomical characteristics found on both Earth and Mars. He presents a fresh interpretation of many matters currently thought to be well understood within the traditional scientific community. He also presents, for the first time, an internally consistent explanation of certain "miraculous" events recorded in the Old Testament and in other ancient writings, an explanation that presents no serious conflict with established evangelical beliefs. If one is willing to accept Patten's basic premises, the path to his startling conclusions is relatively logical and painless. Patten's analysis succeeds where Velikovsky's did not. For the evangelical believer who has problems accepting the grave conflicts between his or her faith and modern science, Patten offers an interesting and convincing resolution of his dichotomy.

*Mars-Earth Conflicts* is bound to be controversial. Patten criticizes several elements of conventional science--this will ruffle feathers. He mounts a wholesale attack on the fundamentalist "creation science" crowd. Cries of heresy may echo through the halls of Southern California creationism, but the issue will be "heresy by whom?"

Patten's account of events in the early history of our solar system is witty, internally consistent, and it offers food for thought. Even should his premises turn out to be incorrect, Patten raises some important questions that deserve answers from the "worthy opposition"--both camps.



# Power, Resonance and Nature

At the Second Sympathetic Vibratory Physics Symposium

by Michael Riversong

On May 20 and 21, 1989, a small group of scientists and music lovers gathered in Colorado Springs to get news on the latest developments in Sympathetic Vibratory Physics. The event was the 2nd International Keely Symposium, having been named for John Ernst Worrell Keely, the pioneer researcher in this field over 100 years ago. Keely put together some very interesting machines in his time. At the conference, several of the speakers explored the principles behind these devices, and gave presentations and ideas that extend this work.

Sympathetic Vibratory Physics deals with the study of waveforms, harmonics, and resonance as applied to problems of power. As stated in the masthead of the *Journal of Sympathetic Vibratory Physics*, "...all forces are derived from One Force and all things are connected through sympathetic attunement."

Speakers included Dale Pond, the organizer of the Symposium; Pamela Hughes, a noted harpist and music healer; Walter Baumgartner, the publisher of *Energy Unlimited* and *Causes*; Peter Kelly of Interdimensional Research; Jerry Decker of Vanguard Sciences; Ben Iverson, mathematician, and others.

Dale Pond, Dan Davidson, Jerry Decker, Walter Baumgartner, and Peter Kelly each demonstrated design possibilities for devices that can be built now, based on already established principles of resonance and harmony. These devices have the capability of generating energy much more efficiently than anything available today, while using little or no critical natural resources and apparently producing no pollution. The variety of possible designs is quite large, and prototypes of several of the devices have been built and are now being tested.

Baumgartner has made a thorough study of Viktor Schauburger's work in Vortexian Mechanics, which stems from an observation that inside natural vortices in streams of water, antigravity effects have been observed. He now publishes a magazine called *Causes* which goes into detail on these designs.

Also, several articles in past issues of *The Journal of Borderland Research* provide more details on Schauburger's work.

Decker and Pond are attempting to reconstruct some of Keeley's original designs, and reported on the progress of their work. Decker has observed three enharmonic natural forces that he named Pres-

sor, Harmonic, and Dominant. Pressor causes molecular disassociation. Harmonic reduces molecular activity.

Dominant rearranges the mode of oscillation and make transmutation possible. By changing proportions of these forces in an object, you change the mass at will, and thus can produce levitation, transmutation, and manifestation by natural law.

Drawing heavily on the work of Walter Russell, Decker gave many illustrations of the way matter can be transformed.

Peter Kelly explored magnetic fields and energy in depth. He said that, if you remove the magnetic component of any wave, you have total access to its "energy as information". This is how to get leverage with natural forces, allowing you to do "anything that you're clever enough to do". He said that psychotronics is essentially the process of removing a magnetic field long enough to get that access. The Earth's magnetic field is in a period of decrease right now, which partially explains why so much is happening on the planet. This field has declined by 30% since measurements were first taken. It is also possible to phase-cancel a local human body magnetic stress, thus allowing healing to take place. This is the principle behind many psychotronic devices. Think of the human body as a semiconductor matrix to understand this better. Peter also mentioned how waves consistently ride on top of waves, which opens up a universe of operational possibilities.

Of course, time and again it was noted how many of the people who work on free-energy or psychotronic devices undergo serious persecution or, worse, complete apathy from society. Dan Davidson explored this phenomenon in detail and concluded that, for free energy to actually happen, the inventor is going to have to be willing to give the concept away, in order to avoid persecution.

Shine Richards of Earth Resonance explored the keynotes of nature, and better ways to visualize gravity and magnetism. In a presentation suffused with numerous illustrations, he introduced the work of T.J.J. See, a mathematician and astronomer who lived about 70 years ago. Significantly, Shine concluded that all spherical bodies have a resonance to each other by virtue of their shape. This concept opens up more design possibilities for radionic and free energy devices. Some of Shine's work will be the subject of



future articles in the Journal.

Ben Iverson made a dramatic announcement of "The Grand Unified Field Theory." Iverson, a civil engineer by trade, has spent over 40 years researching Quantum Arithmetic, a discipline that ties together physics, astronomy, music, and pure mathematics in a science of proportion and harmony. In his announcement, he showed how it is possible to calculate any dimension of a system by knowing the proportions between components of the system along with any one dimension. He then illustrated how this process applies to music, geometry, astrophysics, and the I Ching.

Iverson used a test case of the distance of the Earth from the Sun as a model for the way many other natural processes work.

Because of the elliptical shape of the Earth's orbit, the proportions of the orbit work out to a sequence of 59, 1, 60, 1. These proportions are actually more important than the numbers in miles. They also create a harmonic cycle that causes the Earth to pass through a triangulated quantum point about every 3 days, 1 hour, and 1 minute. The quantum points alternate between negative and positive, and may help to explain certain cyclic chemical phenomena, such as crystal structure variations and neurotransmitter "tides". The Earth's orbit is no different from an electron orbit, so Iverson used the 38th spectrum line of chlorine to illustrate how a similar set of harmonic proportions determines the binding site to atoms of sodium to form salt.

The legendary "Music of the Spheres" works in harmonic proportions as well, and involves the fourth force of the Universe. This music is plotted out in the Chinese Book of Permutations, known as the I Ching. Keynotes given in that book can be shown to match those developed independently by Archimedes several centuries later.

Music is a vital part of the science of the future. Many of the devices that could produce more efficient energy work on musical principles. Some of Keely's motors built in the 1880's actually were started by singing or playing a musical note.

Pamela Hughes, who studied with Laurel Elizabeth Keyes, discussed how music works on a technical level to hurt or help the human body. For every pain or blocked area, there is a companion tone.

When there is reverberation, music seems to have a more powerful effect on the body. She also mentioned that every part of the human body is somehow involved in hearing, especially the heart.

At the end of her talk, she sang and played a very

powerful healing song called "Angel and Animal" that deeply touched everyone at the conference.

Lia Lissant, a composer and scientist from the San Francisco area, presented a dramatic new set of terminology for phenomena associated with music and healing. She also said that digitally-recorded music does not possess the full frequency characteristics necessary for proper reception by human body cells, and strongly advocated an enhancement of analog recording techniques. Later in the conference, Lia gave a fun demonstration of the phenomenon of "party levitation". Both Lia and Pamela emphasized the fact that the human mind is the ultimate healing and energy-producing instrument.

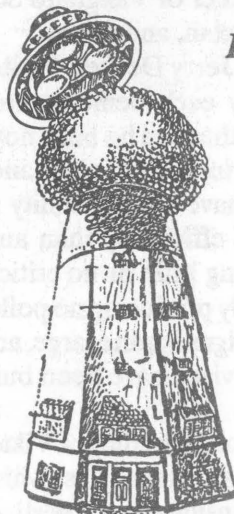
People who would like more details on topics covered at the Symposium may contact:

Dale Pond  
Journal of Sympathetic Vibratory Physics  
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Subscriptions: \$24.00 per year

Jerry Decker, Vanguard Sciences  
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11675 Flatiron Dr., Lafayette, Colorado 80026

Michael Riversong, Light Speed Systems  
P.O. Box 3638, Lakewood, Colorado 80236



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# FIZIX KORNER

With Peter Lindemann

Albert Einstein was a brilliant man. He turned the scientific world on its ear with his mathematical representations and his theories.  $E=MC^2$  is probably the most famous equation in science today and is a perfect illustration of his theorem of equivalence. It states that energy equals mass times the speed of light squared.

The assumptions this is built on must be true at all times for the equation to be a representation of reality. "E" stands for energy and the assumption is that all forms of energy, such as electricity (measured in kilowatt hours), mechanical energy (measured in horsepower hours), and heat (measured in calories) are all equivalent. "C" stands for the speed of light which is assumed to be constant and the absolute maximum velocity. Logically, it's all very brilliant, but does it represent the actual behavior of physical reality? I say it does not.

At the heart of the problem is the equivalence theorem. It brings us conversion factors such as the formula for converting electrical power into mechanical power where 746 watts = 550 foot pounds per second = 1 horsepower. This conversion formula is not a scientific truth, it merely represents the upper limit of the efficiency of the electro-mechanical device upon which the measurements were taken.

Relativity theory is based on these equivalence assumptions. If we can disprove the assumption the theory is based on, the theory falls. A mountain of flawless logic, if built on a false premise, is just a worthless heap.

One of the cornerstones of relativity theory is that inertial mass is equivalent to gravitational mass. There is a certain logic to this and a fair amount of experimental evidence to support it, so let's look at this assumption very closely so that I may show how it is *not* universally true. Inertial mass is derived from the formula  $F=MA$  where "F" is a mechanical force pushing on the "M" or mass of an object causing it to "A" accelerate, that is, move at an ever increasing rate of speed. We can say that the inertial mass of an object is its resistance to a change in motion when a force is applied to it. Gravitational mass is what we usually call the weight of an object and is measured by placing the object on a scale. The value for the inertial mass of an object is discovered in a dynamic framework where the object is in motion, where as the value for the gravitational mass of an object is discovered in a static framework where the object is at rest. The question is, is the weight of an object equal to its resistance to acceleration?

Questions like this are at the heart of what science is all about. If an experiment can show that a uniform force applied to two identical objects that weigh the same cause them to accelerate at different rates, the Einsteinian relativity is not true in the universal sense, or at least has some severe public relations problems.

Enter Bruce DePalma. In 1972, Bruce DePalma first ran one of the most remarkable experiments in the history of physics. Its implications are so profound that only a handful of scientists have grasped them fully. And you can see for yourself because this experiment may be run in your back yard for under \$100<sup>00</sup>.

## DROPPING THE SPINNING BALL

The photograph is a stroboscopic picture of the trajectory taken by two identical 1" diameter steel balls launched into the air by a uniform force and acted upon by gravity. One of them is rotating at 27,000 RPM in the vertical axis and the other is not

rotating. Rotating the ball does not change its weight, but does change its gravitational acceleration suggesting that its inertial mass has changed in the vertical axis. The strobe is flashing at 60 flashes per second and is synchronized with the power-line.

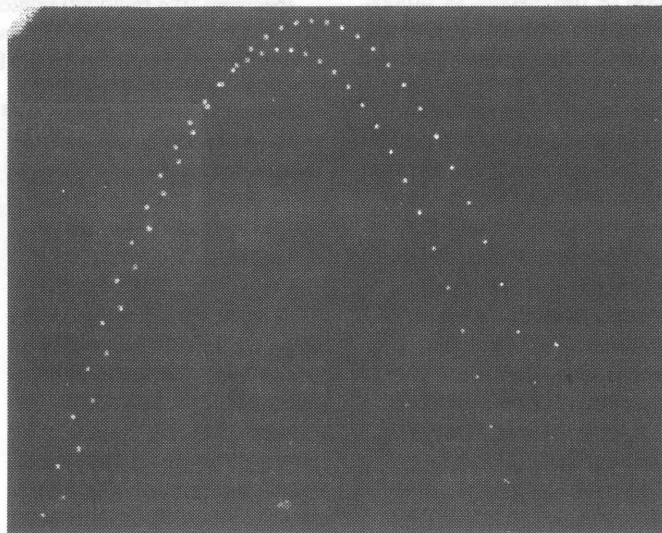
The apparatus for launching the balls is simple and can be made from an electric router that turns at high speed (at least 24,000 RPM). Fashion 2 small cups that hold the balls with a clearance of a few thousandths of an inch. Mount one cup on the shaft of the router motor and mount the other cup clamped on the

side of the motor so that the two cups are at equal heights. Place 1 ball in each cup, start the motor and bring it up to speed. Then holding the motor with both hands, thrust the balls into the air. The balls will behave like those in the picture shown here, with the rotating ball rising higher and falling faster than its non-rotating twin.

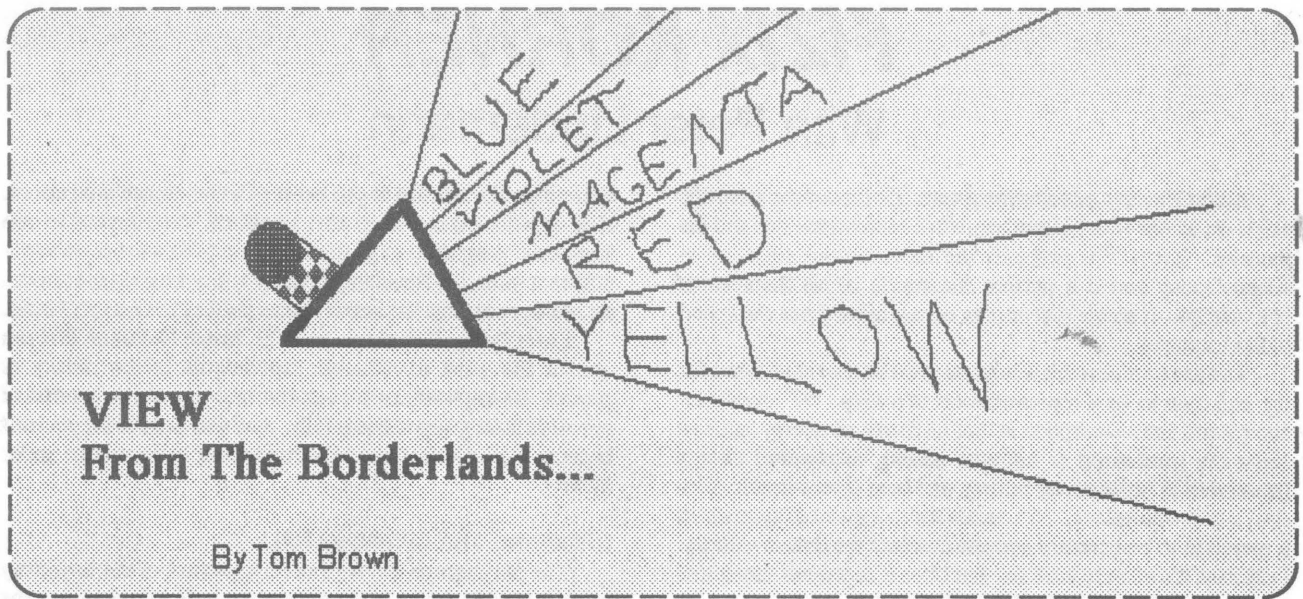
Build this experiment and take it to the physics department at your local university and ask them what it means. The fact that rotating the ball alters its inertial mass is not predicted by any theory and is not covered by any text book. In fact, it is assumed that rotating the ball will make NO DIFFERENCE AT ALL.

So much for assumptions... and the theories based on them.

Build this experiment and see for yourself. Albert Einstein was a brilliant man, but his theories are wrong.







**THE ETHERIC SPECTRUM**

The diagram above sets the generalized tone for this column. It represents the projection of the reverse, or etheric, spectrum. Isaac Newton projected the forward, or physical, spectrum in his famous experiment of running light through a slit. Because he understood only 1/2 the phenomenon of color most people today think that color comes from light. Basic experimentation will show something quite different. The above picture shows light running around an object going through a prism. I have done this experiment and the etheric spectrum is quite easily seen.

Goethe became astonished when he first looked through a prism. Having heard of Newton's experiment and conclusions he expected to see a white wall separated into the seven colors. Instead he saw only bands of color where there were boundaries between dark and light. This led him to further penetrate the mysteries of color and he developed a comprehensive theory based on observation. His theory is that color is a phenomenon which occurs on boundaries between dark and light. He developed a color circle which resembled the layout of colors as developed by Dinshah Ghadiali.

So, if we have a forward and a reverse spectrum, and colors can be arranged in a circular fashion, then what in the world do we do with the linear concepts of the 'electro-magnetic' spectrum. Well, they certainly must be modified to cover the entire

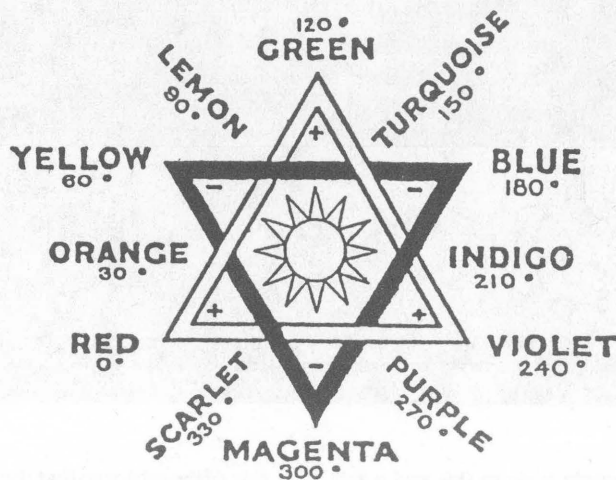
phenomena. It is my contention, based on theories presented by others, that there are two spectrums of nature. The physical spectrum (the rainbow) relates to the physical body of the surface of our planet, and the gravity forces. The etheric spectrum relates to the spiritual, or life body of the surface of earth, and the levity forces which keeps most living matter at 90° to the surface.

**IN THE BORDERLANDS**

Color is a true borderland phenomenon. Through the understanding of Goethe's theory one can release their mind from the thralldom of "the wonderful world of Einstein" and begin to see the structure of reality as it really is: an interweaving of physical and etheric forces. The surface of earth is a border between the two and the structure of the circle of color is an archetype from which we may draw many insights in the nature of reality.

Once one's mind is free to think thoughts not in the textbooks of our modern world then new vistas of perception will open up. For example, I

have been wondering about the experiments of Koresh, presented in the July August 1989 Journal, wherein he forced a mechanical line for six miles along the surface of a body of water and found that the earth curved up. I find it somewhat hard to imagine that we are on the inside of the earth, but Koresh's physical experiments stand, until I can see them reproduced and judged again. Sure, I've seen the satellite photographs showing the globe, but in a strictly scientific manner one cannot discard



**CIRCLE OF COLOR**  
Dinshah Ghadiali version



Koresh's experiments without reproduction to verify or refute. Space is different that we think with our modern consciousness. All the occult teachings of old speak of densities, layers, planes...

In the book *DE LABORE SOLIS* (by Walter van der Kamp, 14813 Harris Rd, Pitt Meadows, BC, Canada V3Y 1Z1), the author explores the idea of geocentrism, that is the earth as the center of the universe. He goes through the ether drift experiments and many others and in doing so shows that from a scientific standpoint no one has ever proven that the earth moves. There are many theories based on the concept that the earth moves, but who of you have felt it spin? It is very possible that the earth does not move. While in our garden watching the sun *move* overhead and imagining that the earth was as still as it seemed I had the most incredible feeling that the earth was still. At this moment each thing that I saw on the surface of the planet became so much more important. No longer was the earth some insignificant chunk of rock flinging through a vast empty space, with a living surface created by the chance of chemical elements, but instead it was now a very special place. I have been able to work through various cosmic models this way, all being based on observations, and each has opened new insights.

Scientists say that we are moving at over a million miles per hour in seven directions at once. Since this is all calculated and not directly observed we can figure that the scientists have grasped the seven levels of existence and the concept that each level is a different density, but with their type of consciousness they can only describe it in terms of motion through space.

At one time many people thought the earth was flat. Perhaps it is! Say the earth is a flat plane, as it looks. According to *projective geometry* a plane at infinity is a sphere. In metaphysics the terms sphere and plane are used, almost interchangeably, to describe our layer of manifestation—the surface of this planet. The infinitely distant plane of the etheric forces provides a reference for the mathematical structure of a growing plant. The mathematics of plants cannot be described in whole num-

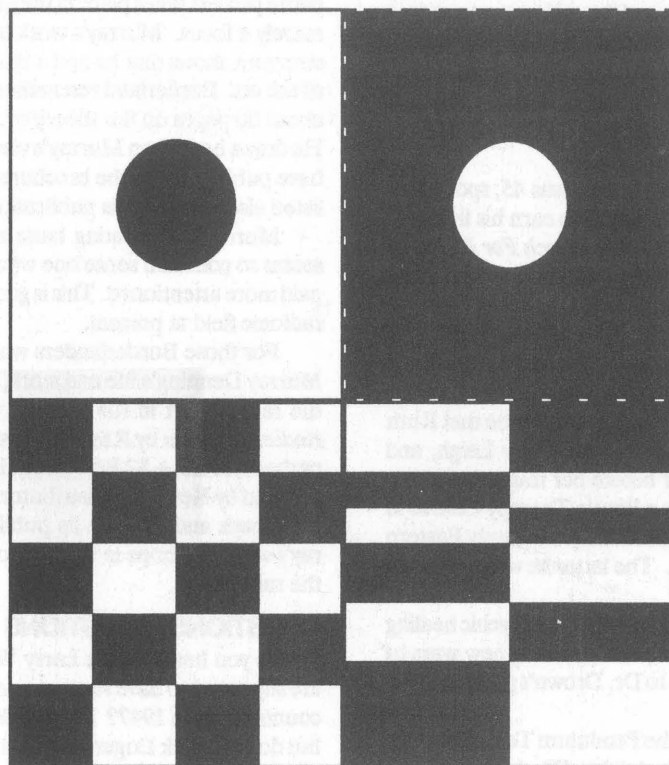
bers. Irrational, or infinite, numbers are encountered when ratios are solved. The structure of most life on our sphere/plane is based on infinite numbers. We are truly on a plane at infinity which to our eyes appears as a plane, but to our imagination as a sphere. Is the sphere convex or concave? Good question. According to projective geometry it can be either and appear the same. Both are the same and can be seen as such once the concepts of *space* and *counterspace* can be integrated into the intuitive, imaginative process.

The infinitely distant plane which relates to the growth of life can be understood quite simply. First of all imagine a point on the ground. Now imagine this point growing larger into a circle. You are on the edge of the circle as it grows larger and larger. As the circle grows larger the circumference on which you stand becomes more and more straight. At infinity the line designating the circumference of the circle is a straight line! Imagine the same procedure with a sphere. The sphere at infinity is a plane. This is the basis of projective geometry, the geometry which gives us a basis for understanding the growing, metamorphosing forms of life. A straight line moving to the left will appear again coming from the right.

In plant growth this infinite plane projects through a point above the plant. We can see this easily in most plants—the center of gravity and focus of the leaves is above the plant. This is the intelligence center, and is probably integrally tied into the orgone envelope surrounding this

planet. (In northern California where heavy logging has ruined much of the earth's surface the tops of the big trees are dying because the orgone layer is contracted tighter to the earth). In humans the center of balance is inside the body. Our relationship with the infinite plane comes from within, the plants from without. Plant and human are polarities.

Thus through the reality available to our direct intelligence, coupled with the developed imagination and intuition, one can begin to grasp the cosmic wonders we are an integral part of. Anything less is too boring.



Here are diagrams like those Goethe used in his experiments. Get a prism and see for yourself that color forms on the boundaries. Don't take anybody's word for it—do the experiment!

# B.S.R.F. BULLETIN BOARD

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

## LETTERS

### **R. MURRAY DENNING, ESQ.**

"Thank you very much for your letter of 2nd March requesting further details of Murray's life. I am listing below some facts for you to include in a write up as you suggest and am delighted to think you are so doing. If I repeat anything already known, please forgive me."

- a) He was born in 1903 in Epping just outside London.
  - b) His father was a General Medical Practitioner, and his family-tree shows a long line of Apothecaries and Doctors going back into Irish history to the Battle of Boyne. His Mother was Scottish.
  - c) He was educated at a public school at Tonbridge in Kent, where he excelled in sports (rugby), and where using his hands, the best of his talents on a physical level (first carpentry and woodwork and later healing) first showed.
  - d) Spondylitis Nervous Spine, cured when he was 45, spoiled his early years. He became an Insurance Agent to earn his living.
  - e) After his cure (described in his book *My Search For Radionic Truths*), his Hand-Healing led him to investigation and to Ruth Drownism.
  - f) He joined the Radionic Association of Great Britain in 1956. Served for a short period on the council, where he advocated basic medical training as essential and undertook a journey via Los Angeles to Australia and New Zealand. In Los Angeles he met Ruth Drown, the teacher of his own teacher, Mrs. Mary Leigh, and corresponded once or twice with her before her tragic death.
  - g) Following his own advice he took a Physio Therapy Course in which I joined him and commenced in his sixties to study Eastern philosophies and Esoteric teachings. The latter he was still doing right up to his death.
  - h) He sought a link between physical and spiritual psychic healing all the time, and even before he died, was planning new ways of research, particularly with reference to Dr. Drown's photographic diagnosis.
  - i) When the B. Rad. Assoc. took on the Pendulum Technique for diagnosing, he felt strongly they had lost sight of Basic Principles in training their students, and devoted his latter years to promoting Drown's ideas, and trying to turn the thinking of the people over here back to a restatement and awareness of her work. (In other words, he felt they had gone off the rails of genuine progress, and needed reminding.) To some extent he has been successful.
  - j) He and I were married in 1956—and I have always been intensely interested in his work and supported him in every way I could. We had one daughter, now married with 2 children, and he also had a son and daughter by previous marriages, and was a Great Grandfather when he died.
- With best wishes,  
Mrs. Annice Denning  
Chesham, Bucks, England

Thank you for the further information on Murray's life and work. Murray had a most interesting life and I find that I agree with his general attitude.

You mention that he was in disfavor of the teaching of pendu-

lum technique for radionic analysis. I feel that the pendulum is important, mainly due to its de facto presence and its proven usefulness, but that the true radionic action comes from the contact through the rubbing plate. I would have to concur with his feelings and I suspect that Murray was treated as somewhat of an outsider for his championship of Dr. Drown's methodology in the British radionic climate.

Murray's writings indicate that he understood the reality of radionic structure which overrides the implication that the entire process takes place in the mind, with the physical instrument merely a focus. Murray's work toward an automatic radionic instrument shows that he had a clear grounding in the true realities of the art. Borderland researcher Jorge Resines has put together about 80 pages on the theory of automatic radionic instruments. He draws heavily on Murray's views presented in "Truths" and we have published it as the brochure "Automated Detecting Devices" listed elsewhere in this publication.

Murray's advocating basic medical training for radionics seems so common sense one would wonder why his ideas weren't paid more attention to. This is good advice for those working in the radionic field at present.

For those Borderlanders who would like to read more of R. Murray Denning's life and work, and gain important insights into the radionic art in the process, we recommend *My Search For Radionic Truths* by RMD, published by BSRF. The book is a paperback, \$9.95 + \$2 P&H from BSRF, or through any bookstore serviced by New Leaf Distributors. This book is Borderland's first paperback and through its publication we have preserved Murray's work and hope in this way to help keep the radionic field "on the rails."

## **QUESTIONS, QUESTIONS**

"Have you heard about Larry Wilson and Eugene Carinni—they are supposed to have run a car on hydrogen & oxygen across your country back in 1947? Larry Wilson later went to the inner earth, but do you think Eugene Carinni is still alive? Another Question: Do you have any information on Guado Franf from Switzerland with the little pill to be dropped in the water and then the water was good for automobile fuel? That was about the same time (1947). If you don't have any information on these people do you know anyone who does?"

Anders Hansen, Kobenhavn, Denmark

Well Anders, I've heard both stories but don't have any verifying data at hand. Perhaps some Borderlanders could fill us in on the current status of these people's activities of yesteryear.

Anders visited Borderland HQ earlier this year and fashioned a set of truly organic garden tools—a wooden rake, a wooden fork and a wooden spade—to which we have attached a copper plate as per Schauberger's indications. He also helped in the stirring and spraying of BioDynamic preparations, and presented us with a stone coffee & grain grinder that he made. Anders visited the U.S. ready to work on Tesla tech and related projects to bring back knowledge to his homeland. I think he was somewhat disappointed that so many people were confused with "scalar waves"



and other such nonsense and that he couldn't find much progressive work being done. We showed him the videos from our lab—from when it was functioning—and he was sorry he missed out on that—we did some real progressive work, thanks to researcher Eric Dollard, as the videos clearly show.

### RECEIVED

This is a list of materials received for review. BSRF members who would like to do longer reviews of these should contact BSRF.

\* **FLANAGAN REPORT** from Vortex Industries, 1109 S. Plaza Way, #399, Flagstaff, AZ 86001. This is a new newsletter from Patrick and Gael Crystal Flanagan covering their current researches into the dynamic properties of water and the actions of colloidal minerals on the living system. Vol 1, No. 1, covers some of the general information in their *ELIXIR OF THE AGELESS* book as well as carrying a report of a five year research study of Flanagan Colloids (marketed as Crystal Energy Concentrate™) by the University of Massachusetts.

\* **THE COGITATE TAPE** by John C. Lilly, M.D., cassette published by Gateways, PO Box 370, Nevada City CA 95959. This is an experiment of Lilly's from the early 1970's wherein he taped the word "cogitate" and let it play on a continuous loop. This tape was described in his book *CENTER OF THE CYCLONE*. When listened to the regular pattern changes and one begins to hear different words, sometimes even whole sentences, despite the fact that the continuous loop is still going. I tried it and it certainly does work—very curious. Side two contains the tape with an overlay of "Jazz" by E.J. Gold. I really couldn't relate to that side, but perhaps others will. Regardless, side one is worth trying.

\* **TAPPING THE ZERO-POINT ENERGY** by Moray B. King. Subtitled: How "free energy" and "antigravity" might be possible with today's physics. Paraclete Publishing, PO Box 859, Provo, Utah 84603. ISBN 0-9623356-0-6, \$9.95. Moray has been lecturing on the potential energy in what modern physics calls the "zero-point" state. In this book he sums up his ideas and presents them with suggestions for the experimenter. "A new technology could await us by combining two heretofore separate, but well documented areas of modern theoretical physics: 1) The theories of the zero-point energy show there are tremendous fluctuations of electrical field energy imbedded within the fabric of space. 2) The theories of system self-organization might allow this energy to be cohered by technological means." This is an interesting book because it shows the cogitations of a worker in orthodox science looking into the borderlands.

\* **INTERDIMENSIONAL PHYSICS - The Mind and The Universe** by Ruth Norman, UNARIUS, 145 S. Magnolia Ave., El Cajon, CA 92020. ISBN 0-935097-15-5. Interesting collage of ideas from metaphysics and modern science, presented as a "bridge between the physics of matter and the fourth dimensional plasma field, providing new light in the evolution of matter, mind and spirit!" Modern physics is really a form of mysticism, with the quantum theory dealing with phenomenon created in experiments dealing with the decaying side of nature. Most metaphysics deals with belief in unseen energies, rarely grounding them in a coherent form in order to objectify their reality. This book wades through both morasses, but in such a way that it makes for interesting and stimulating reading. I think some of our readers will enjoy this book, but it does not represent any significant steps forward in understanding the true metaphysics inherent in all natural phe-

nomenon, both earthly and cosmic. UNARIUS also publishes a number of other titles—write for current catalog. I've always enjoyed this group as they are so far out that they might just be on to something.

\* **ALLERGIES AND CANDIDA** With *The 21st Century Solution* by Steven Rochlitz, Human Ecology Balancing Sciences, PO Box 1134, Setauket, NY 11733, (516) 751-3105. Covers: Allergies, Candida, Epstein-Barr Virus, Muscle Biofeedback, Brain Hemisphere Integration, Heart Integration, Energy Balancing with Kinesiology, Ecological Nutrition, and more.

\* **NEXUS - New Times Magazine**, Autumn 1989, PO Box A556, Sydney South, Australia, 2000. This is an interesting magazine showing a good cross section of the Australian alternative community. Lots of news that never sees the light of day in the U.S.

### CONTACTS

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

\* **ALTERNATIVE ENERGY ENGINEERING**, PO Box 339, Redway CA 95560. Send \$3 for excellent catalog and design guide covering Photovoltaics, Hydroelectric, Windmill, and all parts and appliances to run on 12 volt systems. Its amazing what can be done where nuclear power does not go or is not welcome.

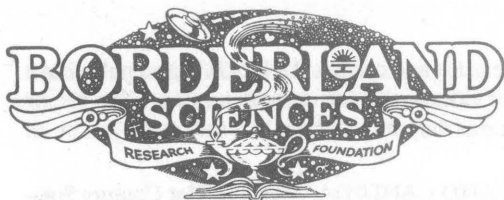
\* **HOMEOPATHIC EDUCATIONAL SERVICES**, 2124 Kittredge St., Berkeley CA 94704, (415) 653-9270. An excellent source for general information, books, tapes, medicines, courses, etc. on what is being called the "medicine for the 21st Century." Very comprehensive materials.

\* **THE UFO EXPERIENCE** (3<sup>rd</sup> Annual), November 11-12, 1989, Ramada Inn, North Haven, Connecticut. A conference to provide the latest developments in ufology. Speakers will be: Walter Andrus, Director of MUFON; Whitley Strieber, author of *Communion*; William Moore; Ellen Crystall; David Webb; Jerome Clark; John Keel; Michael Grosso; Kenneth Ring; Vickie Cooper & Sherie Stark, publishers of UFO magazine; and John White. Contact John White, 60 Pound Ridge Road, Cheshire CT 06410, (203) 272-2151.

\* **ENERGY UNLIMITED**, PO Box 493, Magdalena, New Mexico 87825, (505) 854-2634. Walter and Rhett Baumgartner are the editors of *CAUSES* Newsletter (\$40/year US) which delves into the Vortexian Mechanics of Walter Russell and Viktor Schauberger. They are doing workshops around the country, such as the Nov 3-5, 1989 seminar in California. Contact them for more information on workshops in your area, also if you are interested in sponsoring one. They are also starting a Walter Russell study group in New Mexico with Tim Binder from the University of Science and Philosophy to cover the applicable scientific aspects of Russell's work.

\* **UNIVERSITY OF SCIENCE AND PHILOSOPHY**, Swannanoa, PO Box 520, Waynesboro, Virginia 22980. Source for the works of Walter and Lao Russell, including a home study course in self-transcendancy. The materials we received at BSRF from them are oriented toward the philosophical aspects of the Russell's work, with very little in the hard science, which in this editor's opinion is the most important aspect of their work. Many of our readers will find this fascinating and useful material.





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## RESEARCH PUBLICATIONS FROM BORDERLANDS

**SECRETS OF THE SOIL** by Peter Tompkins & Christopher Bird. Covers: BioDynamic methods, including the work of Alex Podolinsky who has worked to turn millions of acres of Australian desert into lush farmland, with appendices on how to make the BD preparations; Vortexian methods of energizing the soil, including the work of Schauburger and the present day breakthroughs of Patrick & Gael Flanagan in colloidal waters; Soil Remineralization via rock dust fertilization, a method that must be used immediately to save our planet from impending ecological disaster; Stone Towers that increase the cosmic energies in localized growing areas; Infrared Radiations that attract insects to certain fields; Cosmiculture—the radionic agricultural work of Galen and Sarah Hieronymus; Devas—the intelligences of the plant world—how to contact them and work with them for maximum quality of vegetables. 444pp, hrbnd \$24.95

**CLEAN CULTURE - *The New Soil Science*** by Sampson Morgan. An original and scientific treatise on Clean Culture, the Mineralized-Humus method of Soil Fertilization without the use of animal manure, written by a pioneer of the Organic Movement, who first raised his voice in England against the use of chemical fertilizers and Sprays. Revised and enlarged by Raymond Bernard. 77pp, \$4.00

**COLOUR** by Rudolf Steiner. Color surrounds us and constantly affects us, whether fully appreciated or not. For the curious, enquiry into the nature of color often appears to lapse limply into technicalities: the quality of the experience evaporates. Goethe, as artist and scientist, probed the elementary phenomena of color to their origins, in the interplay of light and darkness. His investigation of the moral qualities evoked in human feeling by color laid the foundations of an aesthetic of color. Steiner carried these researches immeasurable further. These lectures outline, on the basis of his spiritual scientific research, the essential nature of color. 100pp, paperback \$7.95

**THE ORIGINS OF NATURAL SCIENCE** by Rudolf Steiner. These lectures trace the subtle changes in peoples ideas and feelings in connection with the development of natural science. Through this, Steiner shows the significance of scientific research and the mode of thinking that goes with it. As we look at what technology has brought us, we can have a feeling akin to the one of pain over the death of a person. This feeling, Steiner says, will become the most powerful impetus to seek the spirit. Steiner had the most incredible scientific insights and reading his scientific materials will greatly increase one's capacity to pursue clear lines of thought in borderland research. 147pp, paperback \$9.95

**CATASTROPHISM AND THE OLD TESTAMENT: *The Mars-Earth Conflicts*** by Donald Wesley Patten. Does Mars show evidence of once having a global flood? If so, could it have occurred the same day as Noah's Flood? What is the real explanation for the Long Day of Joshua, when the Sun and Moon "stood still?" Was there an astronomical aspect to the original "passover" event in Egypt? If not, why were later catastrophes on the nights of its anniversary? Uniformitarianism has ruled almost supreme for the last 100 years. However with the advent of the space missions investigating the planets, and with our planet being littered with fossils indicating sudden deaths, catastrophism has slowly advanced to challenge uniformitarianism. This book will lead astronomers, cosmologists and others to re-examine their old ideas and theories. 289pp, pbck \$14.95

**SHAMANIC HEALING WITHIN THE MEDICINE WHEEL** by Marie-Lu Lorler. "While grasping Native American ritual, ceremony and spirituality, she weaves a web combining Shamanism and traditional Native American healing ways. Her book brings a heart warming feeling because it touches the essence of the Native American way of life: The beauty of living in Harmony and Balance, while incorporating the Spirit, Heart and Body of the Medicine Wheel. Now is the time for all of Mother Earth's creatures to come forth and help heal Mother Earth and Father Sky. This message emanates from the very essence of the human soul and CAN be achieved for all the Creator's Children. HOI!" White Eagle Canard. paperbk \$15.95

**THE ENERGY GRID: FOUNDATION, EQUATIONS AND RAMIFICATIONS** by Jorge Resines. "The goal of this text is to make available, both to those familiar or not with the energy grid existing upon our planet's surface, a guideline that links the knowledge given out by New Zealand researcher Bruce Cathie, Argentine investigator Dr Jose Alvarez Lopez, and the late R. Buckminster Fuller with the investigations carried on independently by others who were not aware of the grid's existence. I also want to give a foundation to the factual knowledge so painstakingly uncovered by Bruce Cathie. Despite my great admiration for Cathie and his work, I cannot fail to appreciate that his discoveries are limited and that if he had paid just a little attention to some small details he would be the author of this text instead of me. I have written this book in a logical way so that those who never before heard of the earth grid may be able to understand the subject." Jorge Resines, Buenos Aires, 1989. 89pp, staples, illustrated. \$12.00

**AUTOMATED DETECTING DEVICES** by Jorge Resines. "Is it possible to build an automated radionic device capable of ascertaining the rates of a certain sickness and to begin immediately treating the patient without the aid (or presence) of any operator? Is it possible to build an automated Moray Radiant Energy Detector capable of self-activation—eliminating the laborious tuning? Is it possible to build a Tesla-type radionic broadcaster that does not need any tuning, as happened with the UKACO device? I hope to answer in the positive all of the above, and also to add some information plus analyzing some devices in terms of the energy grid found by Bruce Cathie and enlarged upon by myself." Jorge Resines, Buenos Aires, 1989. 87pp, staples, illustrated. \$12.00

**ARCHAIC ROCK INSCRIPTIONS** by A. Reader. An account of the Cup & Ring markings on the Sculptured Stones of the Old and New Worlds. First published in 1891 this rare gem covers Rock Markings of similar design found all over the world. An important work for those researching ancient world-wide cultures. 99pp, staples \$13.00

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