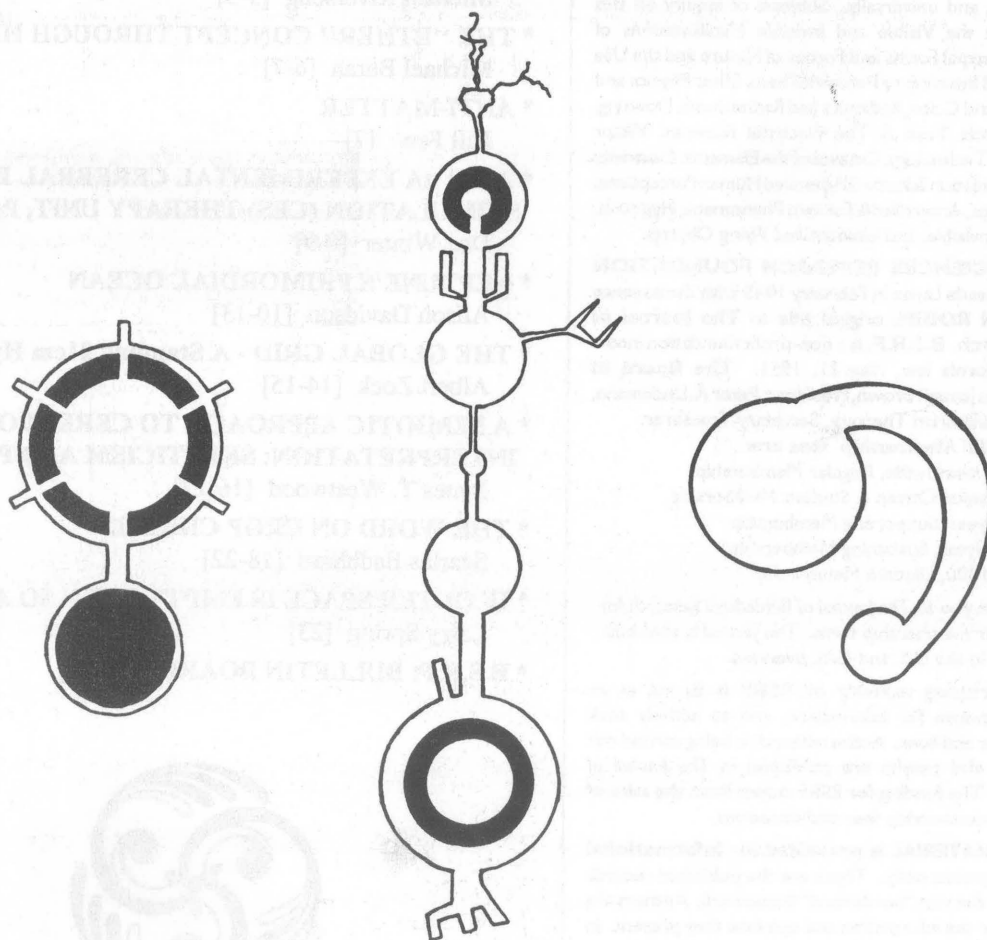


# The Journal of Borderland Research

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July-August 1991



QUESTION OF THE CROP CIRCLES

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# ***RHYTHMIC FORMATIVE FORCE*** ***and the evolution of music***

## **Part I**

**by Michael Brian Theroux**

If we begin to intellectualize about music, we only remove ourselves from what music truly is. To conceptualize music by physical interpretation via mathematical analysis of tones, removes music from its element. While there is a place for the study of tone physiology (acoustics), it has nothing to say about the musical element, and thus should be left as the individual science that it is. The musical element dwells purely in the spiritual.

In assessing the other arts such as painting, sculpture, and architecture, one can find models in the physical world from which the artist must at first pass through mental image to create pictures of the will. The creative musician, on the other hand, has no models to imitate, thus composes musical ideas from his/her soul into direct expressions of the will. As art can be considered an attempt to reveal nature's secret intentions, the painter or sculptor, through the combination of mental pictures merely expresses the *idea* of nature, but the composer of rhythms, melodies, and harmonies expresses the *will* of nature in song and dance.

Before we look at the evolutionary progression of music, we must understand rhythm, melody, and harmony, and how the human being initially experiences them.

### **RHYTHM**

Let us return to art for a brief explanation concerning rhythm in the musical element. The sculptor, painter, or architect, has physical forms with which to create his/her art transforming it into matter, whereas the composing musician, utilizing time as canvas, has the ability to generate the composition anew, again and again with varying quality.

Time, or rhythm, is the measure of motion, or to quote Aristotle, "Time is the measure of motion and rest," as all rest is in time. Rhythm, then must be exalted high above melody and harmony as rhythm can exist without them, but melody and harmony cannot exist apart from rhythm.

Many seem to be driven to the conclusion that nature is a reflection of music as an ordered (or chaotic?) number of cosmic vibrations, based on static interval relationships, but through simple observation of nature's motive characteristics, we could rightly pre-

sume that she is an expression of rhythmic formative force; being a series of varied, cyclic emanations from the spiritual world. This rhythmic formative force is the primordial foundation underlying all creative processes in nature, of which examples may be obtained via the measurement of time (using our time scale, many of the forms in nature are simply motion come to rest). One such ex-



ample can be found in the human body, as our internal experience of rhythm is based on the connection between pulse and breath (in the average person this ratio is 1:4 or 4/4 time).

In a greater, cosmic connection we find a definite relationship between the breathing rhythm of the earth organism and the breathing rhythm of the human being. The earth organism's breathing process is observed in the alternating barometric pressure of day and night; exhaling at sunrise, and inhaling at sunset. The average person inhales and exhales approximately 18 times a minute, or 1080 times an hour (1080 itself is a most prominent number in ancient geometrical cos-

mology), or 25,920 times a day (24 hours equaling one earth breath). The number of human breaths in one day corresponds to the number of years (revolutions of the earth around the sun) it takes the sun to pass through each of the twelve signs in the circle of the zodiac.

The rhythmic perceptions of the body are not only confined to the function of breathing but through the propagation of blood from the heart to the limbs (a likening to our circulatory system can be observed in the earth as well; i.e. the alternating temperature differences in night/winter and day/summer). All of this should lead us to the conclusion that the human organism is completely immersed in rhythmic formative force.

Now if we return to rhythm in the musical element, in association with the human organism, the question of healing arises. Why is it then that in most of the healing circles involved with music, one rarely hears of the rhythmic process save only in connection to the shaman? Apparently, it is due in part to character armouring brought on by medieval western societal dysfunction with its ever imposing religious belief systems whereby music was slowly transformed into a civilized affair (no wild dancing to the beat of that savage music, or you will end up in the place where the man with the horns and pointed stick reigns). There are still some areas of the world where Christian missionaries forbid the locals to use the drum.

The fundamental reason for the absence of the rhythmic process among musician/healers seems to be that they lack the understanding of complex rhythms and do not know how to categorize them. While it is easy to discriminate tones by their frequency, overtones, etc., rhythms tend to be elusive and difficult to classify in relation to musical healing techniques, especially if one considers polyrhythms and polymeters. Studies in the treatment of pain, resolution of depression, and induction of relaxation have been performed using shamanic drumming (with favorable results), but no classifications of the exact rhythms has been done and every shaman will have their own unique style.

Before leaving the rhythmic element of music, let's briefly examine its association with the astrological geometries of the ancients. The early megalithic builders were highly aware of the sacred geometry needed to attract the forces of nature to their celestial monuments. They also realized the importance of giving life to these structures by creating motion within. This was accomplished through the ritual of chant and dance and was subject to the rigid correspondence of the time of day or night. The evocative substance of

this ethereal music did not emulate the vibratory emanations of the desired energies, but rather took on the rhythmic and emotional qualities of the energy (for instance, in the workings of Jupiter, common time and major keys would be typically characteristic of the mood of that sphere).

The ancients had a profound working knowledge of nature's rhythmic cycles (cycle, from the Greek meaning circle, implies a coming around to the place of beginning) and through careful interpretation they could construct the rituals with which to breathe life into their sacred sites. This, in all likelihood, was the true re-creation of the music of the spheres.

### MELODY AND HARMONY

Melody and harmony are by no means one and the same entity, but need to be expressed here in context to one another. Melody, in conjunction with rhythm, is the only component necessary for the construction of song (as for the use of the term melody; it already possesses rhythm or it could not exist, so we will continue to apply it unaccompanied).

In observing melody, we find that a new type of motion occurs on the vertical axis with the ascending and descending notes of the composition. This is really only an implied motion as it is dependent upon the longitudinal motion of rhythm, but it is still a part of our sense perception of melody. As we know, the human ear perceives tone as a sensory function, but the ear is also related to a sense of spatial orientation (relative to three dimensions) that we are no longer aware of. Remnants of this sense arise when the ear becomes injured and our balance and regard to direction become upset. When harmony enters the picture, other types of motion will appear to the senses, but the differences between melody and harmony need to be examined first.

If we take a look at folk music, which is considered province of the commoner and primitive to the 'educated', we will usually find that there is a lack of accompaniment (other than the employment of a drone in some areas such as India and the Celtic countries) to the standard melodies. To the modern listener accustomed to harmony, straight melody is generally not satisfying due to the fact that harmonised music is actually falsified; given to its adjusted temperament. To really feel this type of music one must recover the sense of pure intonation and defy all implied harmonies.

Equally distinctive in solo melody, is the use of grace notes (giving the transcriber incredible difficulty in interpretation) which add varying degrees of light and shade to the structural arrangement of the composition.

Early attempts to add harmonization to the often complicated and highly ornamented bagpipe and fiddle tunes of the Celtic peoples failed miserably and most efforts were abandoned due to the many dissonances encountered. We are left with the realization that unaccompanied melody is capable of standing on its own.

Another important feature of most folk music is the emphasis on the interval rather than the note sung or played. The exception to this lies in the art of counterpoint, giving rise to the aforementioned other types of motion. Through contrapuntal music we see the emergence of spiraling movement propagated by the oscillating currents of intervallic inversion, and retrograde themes. Here again, it is an implied motion, experienced only through spatial (and counter-spatial) orientation. For



the desired effect, one actually needs to listen to some examples of the music, otherwise the descriptions are probably meaningless.

The next part of "RHYTHMIC FORMATIVE FORCE", will deal with our perception of the musical interval through ether/time, along with an introduction to the study of rhythmic ritual. For further exploration, an extensive bibliography and discography are included below.

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# Music, Resonance and Healing

## An Interview with Sherry Edwards

by Michael Riversong

*SHERRY EDWARDS is a noted researcher in the fields of psychic and acoustic phenomena. She lives in Athens, Ohio, but is spending an increasing amount of time on the road, lecturing and consulting with people. She teaches part-time at Blue Ridge Community College in Weyers Cave, Virginia. Among her many achievements are a book called 'Psychic Isn't Psychic Anymore', and a set of Aura Cards that help people see auras more readily. I first met her at the 1988 Global Sciences conference in Denver. Her talk there was one of the most well-received of the whole week, and she was invited back. This interview was conducted in October, 1990, when she was in Denver for a short visit, conducting classes and seeing clients. She had come to town in an RV which contained a complete acoustical research laboratory, and was creating subaudible sounds related to harmonies of certain chemical elements.*

**MICHAEL:** The general perspective of this interview is that there is a unified science bridging spirituality and physics, and everything happening in the world is really based on harmonics. All structures are essentially composed of harmonic vibrations, and different structures are created by differing harmonies going on between vibratory elements. That is basically where we're starting from, so you can get pretty technical here.

**SHERRY:** Well, I can jump right in and tell you that I've created a new musical scale based on hydrogen, carbon, and oxygen; and that musical scale leads right in and agrees with Kepler's ideas about harmonics of the spheres. So it looks like that here is a planetary system that sets up a frequency, those frequencies in turn created the elements, and we in turn match our brain waves to those elements. It's all one large picture.

I think there are a couple of strong points to my work. Number one, I'm not a trained person; my background is in education. So I look at this like a lay-person so I can explain it to a lay-person, and that makes a big difference. Others simply told me that I couldn't do it. Some of the things they are saying that can't be done, I say ok here are the results. I want to make it clear that I don't have the background to do this; all I have is talent.

**MICHAEL:** I find we get a lot of results from

people who have no qualifications. That seems to be a recurring theme at this point in our society.

**SHERRY:** I had an interview this morning with these people from New York. She said, "so what that she can do this, how does it pertain to everybody's life?" To me it means the alleviation of fear about psychic healing. That is what makes the difference, even concerning psychic phenomena, telepathy, numerology.

**MICHAEL:** I think numerology is being indicated through Ben Iverson's work [in quantum arithmetic] where he shows that there is really something going on there. It is not just a bunch of arbitrary manipulation of numbers. There is an interharmonic pattern, which deals with ratios.

Now, when you say you create subaudible sound, does that mean the frequencies are below the range of hearing or that you do it at a very low volume?

**SHERRY:** What we create is subaudible, but we create it with audible sounds. When we want to create nine we would use 18 and 27.

For instance, we knew that when my son had this motorcycle accident and had extensive nerve damage, we knew that fifteen cycles a second would stimulate nerves. So, we went to the elemental code and used magnesium, which is twenty five and calcium which is forty, both sides of the machine, one the twenty five and one the forty, and the difference between those is fifteen.

**MICHAEL:** The person will hear those two frequencies.

**SHERRY:** The brain will create 9 and that is what it will respond to.

[This process is similar to what Robert Monroe is doing in Hemi-Sync, but there are important technical differences which imply that his program may work best for left-brained people.]

**MICHAEL:** I think it would be a good idea to describe the machine you're using.

**SHERRY:** The machine is called a Self Management Auditory Device (SMAD). It creates two sounds. Now we know if we need fifteen

cycles a second and we just shoot fifteen cycles at somebody, it doesn't work. But we also know that if we give two sounds, the difference of which is fifteen or the addition is fifteen then we get some results.

**MICHAEL:** And this is an audible sound?

**SHERRY:** Very audible sound. We use it from fourteen cycles on up, and deliberately try to keep it audible. So, here we go needing fifteen cycles; and I happened to notice in the periodic table that calcium and magnesium which feeds nerves happens to respond to twenty five to forty. We put those in, and then we got regeneration of nerve tissue.

**MICHAEL:** But, what was happening was twenty five and forty were creating a phase conjugation that created a fifteen cycle sound.

**SHERRY:** Right. And, with that we got the stimulation of the new nerve regeneration, and we tried to put that on Digital Audio Tape and it didn't work [at a 48 kHz sampling rate]. It would work somewhat, but not nearly as much as the actual machine; and since there are very few of the machines around, we tried to find a new way. Then, we started putting it on video tape.

**MICHAEL:** How does the machine operate? Is it like an audio amplifier?

**SHERRY:** You can plug it directly in to a VCR or stereo, and it will come out of the speakers. It doesn't have any amp itself. We haven't developed it that far. The model that I have is very crude. This is the very first one that was ever developed, and it's the one that we use with the emphysema patients.

All of this was an accident from the beginning of me finding out that everybody didn't hear [auric] sounds. [This led] to the discovery that everybody creates a sound that tells people what they are thinking in general terms. Then we got to the point of always doing the sounds for people, and people said "what are they." And, I said "I don't know. I'm so musically ignorant." Because, I'm not a musician, I'm not a mathematician, and I'm not a physician. I'm just somebody who has unusual hearing.

So I am trying to give people these sounds, and I don't know what they are. Somebody brings over a little instrument tuner and says "Oh, we can figure it out from this." And then I notice that a sound is missing from someone's voice. We just sort of snowballed from there to finding out what you can actually do when you feed somebody back the sound that they have missing.

Somebody else comes along and finds out it's a shade of color that you can't see. So that



led me to thinking there is something in the body that is manifesting this. So I started looking at body organs and finding out the liver, pancreas, and gallbladder run on the note of D, and when people have the note of D missing their digestion is hampered. So those frequencies that the organ runs on, if the body isn't doing it appropriately, those are missing from the voice and the ears.

Then we started working with comatose patients, babies, and throat cancer patients. So we said, we've got to have another way to do this. Norm Sheely and I got together and came up with the idea that we could possibly do this from brainwaves. We don't know that we can do that, but we are going to try it.

We eventually want machines that people can go into, and monitor all body functions by sound. This computer that's surrounding you will say exactly the liver doesn't run here, and this doesn't run there, this sound you need; and they'll just shoot it into you like a laser at that moment and will be creating this sound environment. Sound as in using frequency sound, but sound also as in structurally well. I think that came to our society through our language, and we just didn't pick up on it yet. Something that is sound is structurally well put together, and we're trying to create a sound environment. I can see eventually being able to reproduce almost any kind of thing that the body needs through sound.

**MICHAEL:** Is there any possibility that a musician could come up with a piece of music that would do more or less what you are trying to do with the sounds? Or do you feel that music is too nonspecific?

**SHERRY:** Well, I'll give an example of something that happened with us. When we were working with the emphysema patient, with normal music, we could stop an emphysema attack if we gave him the right notes. But, we could not do anything with curing the disease.

**MICHAEL:** So, you've seen remissions of the emphysema sometimes.

**SHERRY:** Right. We have done that to the point where there has been an abatement of the scar tissue.

**MICHAEL:** That's amazing.

**SHERRY:** We found that different octaves; either very high octaves or very low octaves will do the work. Different octaves tend to respond to different systems of the body. We know that the beta range, which is sixteen to thirty one cycles per second, tends to respond to large motor response, arteries, heart.

The alpha range tends to respond to some-

body emotionally; and so the more we worked on that the more we found that there are different octaves. One is emotional, one is even environmental. One is biochemical, one is physical, and one is bioelectrical; and we know that this affects people genetically, physically, bioelectrically, emotionally, and biochemically. For example, if someone has the note of E missing, biochemically, they lack an oxygen carrier. Physically, they don't breathe deep enough. Environmentally, they have dirty air. Genetically, they probably have emphysema, tuberculosis, asthma, something like that. Emotionally, they are self suffocating.

**MICHAEL:** When you say genetically does this also correlate with what the homeopathic doctors call miasms?

**SHERRY:** I would think that it does. We've worked with some of them. The homeopaths found that there are certain sounds related to certain remedies. I have not tested all of them, but certainly each remedy has a sound.

[SHERRY then showed a proprietary music scale that she and her group have developed.]

**MICHAEL:** This is very similar to what Ben Iverson has been doing.

**SHERRY:** Yes, very similar. It is based on what we are made of; hydrogen, oxygen and carbon. I'm very interested in putting this in a synthesizer to see what happens. It seems to be half way between a scientific scale and an even tempered scale. There seems to be a compromise between the two. Somebody knew what they were doing. I really think that particular piece of information right there is going to add scientific knowledge or support to numerology.

**MICHAEL:** Well, Iverson has been saying so much for years. He talks a lot about precise proportions of the planets and how you can calculate it easier and more precisely through ratios than you can through calculus. He sees calculus as sort of a dead end, which I think our society is rapidly approaching. He sees ratio based mathematics, which is essentially the same process that numerologists have been using for years, as a way to get out of that and a way to connect with real science, as he puts it.

**SHERRY:** Our particular scale started with the Pythagorean scale that is in equal thirds. Meaning you start with one, the next octave is two, the next is four, the next is eight, and equally spread apart so that .0595 is an equal distance between each of the notes and their lowest form. When those ratios tend to be 1:1, 2:2, 1:2, 1:4, 1:8, 1:16, (because at the .0595 distance they are all

equal proportion), then that turns around and begins to emulate Bohm's theory of shell dynamics of atoms, which I think is incredible

**MICHAEL:** I'm not familiar with that theory, but this is a remarkable type of connection. Keep finding all the time in this field.

**SHERRY:** Well you know that the shell atoms 2, 4, 8, 16, that in the first shell, like helium, the first two places are filled in the outer shell. The next shell is four and those four are filled next.

**MICHAEL:** Yes, you have a spiraling progression.

**SHERRY:** Right, and that is how Pythagoras originally started his musical scale, although didn't know that. He started with one double two, double four, double eight and on. That emulates Bohm's shell theory of atoms. So it goes back to the atomic structure again and becomes harmonic when you put it together that way. The biggest addition to that, I think, is that these structures in their lower octaves emulate human brain wave patterns. That to me means that even in their atomic structure we are affected in a psychological structure. That to me was significant when we found it out.

**MICHAEL:** So what we are doing in a sense is nutritional, only you are approaching from the sound waves?

**SHERRY:** Yes. If you take the note of D, that is the color orange. So it is regulated to frequency. Well I shouldn't say it that clear because it depends on whether somebody is left or right brained and how they will respond to that. That has been a big stumbling block anybody who has been doing color healing. They don't consider that the person is left or right brain they might use the other side of the soul. They don't get consistent results.

**MICHAEL:** So the flip side of D would be that. That makes sense musically. That also explains some of the problems I've been having researching and developing my own musical healing tapes.

Which side of the brain is the lower and which side of the brain is the upper harmonic?

**SHERRY:** It's not the upper or lower harmonic it is circular.

**MICHAEL:** Let's say if you have the pitch the harmonic A would normally be about that pitch.

**SHERRY:** You have to watch what octave

person talks in, whether it is above or below.

**MICHAEL:** So people talk in different octaves?

**SHERRY:** Yes, depending on their hormones. This is complicated ... actually sub-audible. Which isn't really sound at all, but tends to be [pure] frequency.

[At this point, we went outside to Sherry's RV/laboratory. The machine was turned on with a patient present, and some of the readings refer to her condition.]

**SHERRY:** Atomic weight is 15.999, so we are going to use 16 on one side and 32 on the other. You can actually go 10ths and 100ths, but it is a little loud. You don't need it that loud; you really don't need to hear it.

**MICHAEL:** There is a different feeling when you turn it off. I also noticed when I walked in I felt sort of an ozone in the air.

**SHERRY:** I had this on 5.07 when you came in, which is the note D.

**MICHAEL:** It is the sound of oxygen, and it feels nice in here. This a pretty polluted part of Denver. It definitely feels better.

**SHERRY:** In my mind, what is making the difference is the fact that I can hear you, [on an auric level] because there has been a mutation in my ears and my voice. This is a pivot to be able to understand why frequency heals, which in turn is color healing, which in turn is hands-on healing, which is medicine, because each medicine has a frequency. Instead of looking at things by elements people will be mixing them by frequency.

**MICHAEL:** I think we are coming to that. Even when you are dealing with radioisotopes you realize after a while you get an atomic number of 131 and it might be cesium or it might be something else. It becomes difficult when you are dealing with isotopes and trying to classify them as one element or another.

**SHERRY:** From the sound of them it can be any way you want them.

**MICHAEL:** Walter Russell put together the table of the elements as a sound wave. Now, I need to make a graphic table of all of the elements that manifest in three dimensions out in space. This machine has the capability. You hook it up to the holography stuff, make a few manipulations and you have a hologram.

[At this point we go over to a Korg instrument tuner, Model AT-12, which includes a needle meter. When doing diagnostic work, Sherry will read the needle, making notes as to pitches that are included and missing in the voice. From that information, she can make a diagnosis.]

**SHERRY:** When missing the note E, emotionally you would usually self-sabotage. In one case it can destroy the nervous system. In another case it may affect the lungs.

**MICHAEL:** I get the impression that E being missing could be a person who could be heading for a crisis, but seems fine at the time.

**SHERRY:** Nobody would take you seriously that you'd follow through on something. They will see you as someone they can run over, take advantage of, manipulate, because that note of E is self-sabotage, meaning you don't stand up for yourself physically or with words.

**MICHAEL:** Does that mean if the patient got music that is keyed in E and played it a lot, that would help?

**SHERRY:** If you do it in the musical scale we find that as long as that music is playing then you have it and you will reactivate within sometimes three minutes, sometimes three hours. But you will go back to needing the note E.

When the note C is missing, that indicates muscle stress. The note B missing means the stress is coming from a cellular level, on a nerve level. This can be caused by emotional stress not getting out of the system, not talking about it, and physically not doing anything. So you have physical stress. When you have the notes of B and C missing, B indicates someone being highly sensitive to electricity and C means someone highly sensitive to exercise. Then you need a form of exercise all the time to get the garbage out of your muscles and to keep things moving. One would do really well with exercise or massage etc., that is almost required. Insulin gets laid down in the muscles when you don't exercise. That is why they tell a diabetic to keep exercising.

Say someone actually talks in a predominant key in E, F, and G. So there is a note missing. The fact that C and D are missing means people will perceive the person as weak, not a lot of self power. That is all psychological as we listen to people's voices. We can mechanically take C out of someone's voice that has full range and you'll think they are a weak person. We can take B out and you will think they are a manipulator.

If we give the patient C and B in music she has to play it all the time or she'll go back. We can go to lower octaves where we are going right into the magnetic system of the body and begin

to vibrate at the cells, using the sound machine. When we start on it you can't be away from it for longer than 6 hours or you'll go right back. We can start this and keep you on it and wean you off of it.

With the emphysema patient we can stop an attack with music. We could not do anything about the disease. Once we got at lower octaves the disease started to disappear. Less medication, less scarring tissue, more able to breathe, less fluid in the lungs. In one case it was genetic, so we had to go down to lower delta, because it was genetically in his frequency where he got this disease.

We had to end the published part of the interview at this point because of privacy considerations, as the discussion of cases got very specific. Sherry is continuing this research, and is lecturing all over the country on several related subjects. Since the time of this interview, she has been involved in several specific cases, including:

- \* A study showing decreased need for pain medication in several patients;
- \* X-Ray data, showing a child who had knocked off part of a bone, with no scar tissue on the bone after four months on the sound therapy;
- \* An emphysema patient who decreased the need for supplementary oxygen from 1 liter to 1/4 liter per day;
- \* A blind lady with MS who was able to see some light and regain some movement of her legs after only three hours on sound;
- \* An airline pilot whose scoliosis was cleared up;
- \* A man with chemical burns in his lung, down to 30% of normal capacity, was able to regain up to 80% of his capacity after three months on sound.

Sherry would like to invite interested health professionals to correspond with her at: P.O. Box 706, Athens, Ohio 45701

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# THE "ETHER" CONCEPT THROUGH HISTORY

## AND APPLIED TO AN UPDATED PARADIGM

by Michael Baran

The concept of a universal ether is an ancient one. A superfine ambient medium associated with the stars and with the light of day, known as the ether, was universally recognized in ancient times.<sup>(1,2)</sup> In more recent times, the greatest scientists from Newton to Maxwell to Tesla (see below, Tesla on T.J. See's ether-wave theory of gravity) have considered such an ambient medium to be a necessary condition for the action of forces through space.

As author<sup>(3,4)</sup> of several books dealing with ancient legendary and esoteric themes, I have perhaps more than the usual respect for some of these venerable scientific concepts. I believe that an energy-gravity unification-theory -- still sought by physics at large -- is possible using the ancient concept of the ether, and also using (in part) evidence from the psi field.

The first effort to unify energy theory to be taken seriously was that of Faraday who, in the early 19th century, did experiments on electromagnetic fields using magnets acting on electric currents passing through wires. He proposed a field theory based on the idea that the fundamental force of magnetism and gravity is electrical attraction and repulsion. His theory ultimately failed to win over physicists. Faraday was operating under sizable handicaps compared to modern theorists. For example, he thought that electromagnetic waves were propagated relatively slowly, whereas we now know that they travel at the same velocity as light waves. His failure, and that of others, to unify field theory using experimental data led later theorists, most notably Einstein, to attempt a unified theory by resorting to observational data and applied higher mathematics. Einstein's general theory proposed that the effect of gravity arises from a curved, boundless-but-infinite space. In so doing, he was rejecting Newton's concept of absolute space. In Einstein's model, wave-forces can be propagated through empty space, so his theory also rejects the idea of a universal ether. Einstein spent much of the last 30 years of his life trying to unify gravity with energy, but failed. He never really accepted quantum theory, which is a mechanical model of particle-interaction based on probability theory. His most famous criticism of quantum mechanics was "God does not play dice with the universe." Modern physicists follow a path that more or less straddles both Einsteinian relativity and

quantum theory, and that rejects the ether-concept.

"Particle Theory" has come to mean quantum-scale particles --i.e., the electron-photon quantum unit which transmits light and electromagnetic waves. The Encyclopedia of Modern Physics defines<sup>(5)</sup> electromagnetism as "the force between any charged particles... mediated by a photon," and gravity as "mediated by a graviton, a particle predicted by quantum gravity."

However, the field of psi phenomena at least suggests the existence of a world of magnetic-type, mutually-attractive, transmissions of a more-etheral plane than that of modern physics. Psychics relate phenomena that seem to know no spatial or other limitations, at least in comparison to the energy transmissions of modern physics. Modern physics defines elementary particles as those that travel at the same velocity (speed of light) as the electron-photon quantum particle. (According to relativity-theory, because the speed of light is the same in all reference frames, there is no "rest frame" relative to the speed of light, and elementary particles are said to have "zero rest mass.") In other words, observational phenomena, and the human perceptual horizon, which are dependent on the speed of light, are being used to define "elementary particles."<sup>(6)</sup> A potential pitfall appears to be inherent in such a scheme when one is attempting to define the limits of reality, which may not necessarily equate with our perceptual horizon.

In my book "The Aura Paradigm" (1988), I present a theoretic model, or paradigm, based on the idea that all solid bodies contain and radiate energy fields, or auric fields, comprising etheric particles too rarefied to be detected with modern electronic instruments. The basic controversial assumption of such a model would be the idea that super-fine etheric particles (appropriately termed "etherons") exist. If they do exist, it would be a reasonable assumption that they would be subject to the same forces, such as magnetism, as the particles known to physics, such as electrons and photons. Therefore, if one accepts the possible existence of such ultra-fine particles, it would be logical to suppose that they would potentially be capable of magnetic type phenomena, such as mutual attraction and energetic transmission, just like electromagnetic phenomena. The real implication of such a model is that

these etherons exist everywhere, including aside matter itself, and from this it would follow that all solid bodies containing energetic force are ultimately composed of energized etherons. Such ultimate particles, when magnetically-energized, could be capable of magnetically-aggregating with each other to form larger and larger particles, such as atoms. So the modern ether-concept would naturally lead to the idea that all bodies contain and exert auric forces, predominantly comprising particle-transmissions on such a fine scale that current present technology cannot detect them. It would also follow that if the waves of two different auric fields were to resonate with each other similar to the resonations of magnetic fields in physics, then psychic and other mutually-attractive phenomena between different bodies would be possible, and would be hard to define with our present electromagnetic technology.

The first time science seriously questioned the existence of a universal ether was in 1887, a result of the famous Michelson-Morley experiment, which was designed as an attempt to determine Earth's velocity through the ether. The experiment was somewhat complex, but basically was a comparison of the changes in light waves looked at from different angles by the earth-based observer. The experiment was meticulously carried out, and seemed to indicate that an ether did not exist, and physicists at the time and later regarded it as the biggest piece of evidence against the existence of an ether. Nonetheless, many prominent scientists continued to hold to the concept of an ether into the 1920s when relativity theory and quantum theory gained the general approval of physics. Even Michelson himself continued to hold to the ether theory. In an article published in a German periodical in 1919, T.J. See quotes Professor Michelson, whom he describes as "the eminent authority on light," as rejecting Einstein's theory because it does away with the idea that light travels by means of vibrations in the ether.<sup>(7)</sup>

Professor T.J. See was an American who thought the ether-wave theory of gravity was a major rival to Einstein's theory in the early 1920s. See explained gravity and magnetic waves as longitudinal waves in the ether, and explained light waves, heat waves, and radio waves as transverse, or shear waves in the ether. Although See discussed the possible role of etheric particles in his writings, he did not develop a concept of magnetic resonance vs. non-resonance. The concept of magnetic resonance was yet to come. See's ether theory had received some support from Nikola Tesla, who refers to See in a 1922 discussion of wave-motion, citing See's writings on "the smallest particles of ether, which he fittingly designates as 'etherons'."<sup>(8)</sup>

As evidence for the ether theory of gravity, See pointed out a very interesting observation



which is that measurable waves -- heat waves and light waves -- widen out (amplitude increases) -- the closer they are to a body like the sun, which is consistent with the idea that an ambient medium exists which thins out near to cosmic bodies. In a similar vein, See pointed out in 1919 that physicists who were eagerly embracing Einstein's views on phenomena were ignoring "the weighty objections brought forward pointing out the bizarre conclusions by some pure mathematicians who are prone to forget that the deflection of starlight near the sun is as purely a physical problem as the refraction of light in the earth's atmosphere." Here, See was trying to point out that the same observation then being used to support Einstein's theories (mathematically) could also be used (conceptually) to support the ether concept.<sup>9)</sup>

As already noted, See's ether theory of gravity was basically a wave-theory, in that he never developed the concept of particle resonance. How does the resonance-idea apply to ether theory as a model of gravity, magnetism, and other unexplained phenomena such as psi?

To start with psi, one example that might be used is metal-bending, or spoon-bending. There, the idea mentioned above that all solid bodies have etheric auric energy fields would mean that both a human and a spoon have auras. If the waves of two such fields were to resonate with each other (through the human's concentrational ability), one object (human) could affect another (spoon) from a distance. The energies would be coming from the tiniest particles comprising the bodies, so the idea that one of the objects could be structurally changed by such transmissions is also reasonable.

So it can be seen that an ether-aura model ideally adapts to explaining psi phenomena. Another major virtue of such a model is that it leads to simple models of gravity and magnetism.

The aura-ether theory as a unified-field theory is too broad a topic to go into here, but a few main points might be outlined.

The first question the aura-ether theory must answer is how magnetism is to be explained, and the origin of Earth's magnetic field is a key to this question, because in the ether-aura model, Earth, with her vast mass, would have the predominant Aura in our realm at Earth's surface. Physics now holds that the earth's magnetic field arises from a complicated series of radioactive and other processes in the central Core 2,000 miles down. The Core is far too deep to investigate, so the theory is really a pure hypothesis. The ether-aura theory leads to a simpler explanation of Earth's energy field.

In the ether-aura theory, the vast quantities of atomic particles inside the planet would produce vast amounts of magnetic energy, which would combine to form the planetary energy field (which the ether-theory suggests would be

more appropriately called the "Aura.") To imagine how the earth's inner-auric forces would resonate to produce a great magnetic field requires some thoughtful consideration. The earth's inner structure is not uniform -- rock layers of various types are irregularly arranged. That means that the auric radiations of the vast matter inside the earth would intersect, or cut across, one another at various angles -- in the way physicists refer to as "linear." Linear resonations are highly magnetizing. (When one energy field crosses another one at an angle, the interaction of the magnetic forces of the particles comprising each field tends to cause the particles to "line up" within their own field, i.e., the magnetic poles of the particles tend to align themselves in the same direction, i.e., the fields are both magnetized. (The very earliest linear forces would have ensued immediately after the event that scientists believe started our universe, the so-called Big Bang, when an unimaginably-vast collision of matter exploded, and send vast quantities of particles out from the center. As speeding etherons would have tangentially-brushed other etherons, they would have set them spinning and conferred magnetic polarities to them. From this point, gradually-building magnetic forces would have spread out through the ether, culminating in what physicists call "our magnetic universe.")

So one can see that the ether-aura model would explain earth-magnetism very simply.

The way gravity would fit into this model would be as follows. As noted, close to Earth, there would be large numbers of auric particles -- etherons and larger particle-aggregates, that are magnetically-energized by the linear processes in the planet's interior.

Out in space, on the other hand, the ether would be comparatively unaffected by these processes, and out there, the ether would be composed of un-energized etherons which are

oscillatory and lack magnetic polarities or energetic directionality.

So close to Earth -- in its "auric zone" -- the ether is "thinned out" by the magnetic aggregation of energized etherons into larger and larger particles such as atoms, whereas out in space, the ether contains smaller and much-more-numerous etheric particles. The latter would be more forceful than the ether near the planet. (The outerspatial etherons, being unenergized, cannot resonate with the particles in earth's auric field, but being more numerous, they would exert pressure -- the "force of gravity" -- toward the planet as they try to fill the void (or as See termed it, the "vacuum") in the ether there.

The other side of this magnetism-gravity coin would be that as the particles in earth's aura diffuse further out into space, they would gradually lose their energy, dis-aggregate, and revert to pure unenergized etherons.

In conclusion, it appears that the ether theory can explain a number of basic things physics now cannot. Should not science start spending more of its effort investigating phenomena that seem to partake of a more-etheral realm than familiar phenomena? Who knows what vistas may open up with such an approach?

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## ANTI-MATTER

Synthesized by Bill Few  
from "Atomic Suicide"  
by Walter Russell

All matter in the universe, from the minute parts of the atom, to the large galaxies are in a constant state of motion that happens above -273°C.

Since matter is motion, anti-matter is stillness and heatless, it's the universal vacuum called space, the expansion end of the universal piston, the focal points of gravity, planets, stars, etc. representing the compression end.

Space is a misleading word, for not only is it an expanse outside matter, it is omni-present within matter as well and is in control of matter from within as well as without.

All space is permeated with light from distant suns that radiate in every direction, thus it is not empty, but super-conductive, being still.

Motion springs from rest and returns for eternal repetitions in sequences which we call electrical frequencies. Thus every oscillation is an interchange between the universal vacuum of cause and the electric universe of motion or effect.

# A 200 $\mu$ A EXPERIMENTAL CEREBRAL ELECTRO-STIMULATION (CES) THERAPY UNIT, Part I

by Dan Winter

**DISCLAIMER:** In the first part of this article the author gives a brief discussion of Cerebral Electro-Stimulation Therapy. Then, in the second part a description of the circuit and construction details for an experimental 200 $\mu$ A CES machines will be given, along with suggested experiments with CES that the author hopes to make and that others can replicate if they've a mind to.

This project is for the advanced amateur in electronics, only. To properly set this instrument into operation you must have the use of 1) a D-C oscilloscope, 2) a quality digital multimeter (DMM) and, 3) a frequency/event counter. Or, feeling that you are a qualified experimentalist, amateur or otherwise, you must secure the services of an electronic technician who has these instruments available. At no time does the author suggest, nor is it to be taken as inferred by the author that, the described device is to be used medically or can be used in lieu of professional medical or health care. If you have any health problems you should always consult a health care professional and follow his/her advice. At no time does the author assume any responsibility for the use of the described device or the accuracy of the information given in this article. The reader is solely responsible for his/her own actions, as always.

## WHAT IS CES THERAPY?

I will attempt to give a brief account of what has remained an obscure subject despite the considerable abilities of author/writer Michael Hutchison to popularize this area of knowledge. Mr. Hutchison is the author of the book *Mega Brain*<sup>(1)</sup> and he is the main force behind Mega Brain, Inc. and the excellent journal "Mega Brain Report"<sup>(2)</sup>. It is best that the interested BSRFer obtain and read this material before posing any questions to BSRF, Tom Brown, or the author. Okay?

Briefly, CES therapy is the use of electric currents to obtain beneficial physiological and psychological effects. The attempts to do this date back to the first days that technology became able to reliably produce electric currents, and until recent years this has always met with mixed results. Part of the reason for this has been the lack of precision in the means of producing the current but, the main reason has been the limited observational and interpretational abilities of medical and biological science, especially in the early years.

In the U.S.A. the attempt to develop an "Electro-Medicine" was further complicated by

the adoption of the Flexner Report (1910) and the embrace of the so-called "Scientific Model" of Medicine developed in Germany at that time. One peculiarity of this model was that it was held "that there is no electricity in the human body."<sup>(1)</sup> Any potentials observed during physiological processes, including those of the nervous system, were held to be strictly by-products of biochemical activity and that bodily processes were controlled solely by chemical laws. Of course, a logical extension of this argument would be that there is no electricity in a dry cell battery as that is just chemistry also! Dr. Robert O. Becker and his associates, doing truly revolutionary research in the decades after the 1950's have done the most to turn this situation around but, even yet the issue is in doubt due to the recalcitrance of "Scientism" in biology and medicine. Becker and his associates demonstrated current flows in the nervous system that were endogenous to that system and that these currents exercised a control function. So much for the German Model! It is these currents and their control functions that CES Therapy desires to mimic and, if need be, modulate. Becker's papers and books<sup>(3),(4)</sup> are must reading for anyone interested in CES and electro-therapy in general.

CES therapy is not to be confused with the more commonly known TENS (Transcutaneous Electro-Nerve Stimulation) therapy which is used for pain relief. Both are similar in that they obtain their results by the application of biphasic (having alternating [+] and [-] polarities to the current) pulse current. The similarities between CES and TENS diverge at this point. With CES the currents are applied to the central nervous system which has a much higher density of nervous tissue compared with the application of TENS to the peripheral nervous system. With CES it is important that the current meets John Lilly's condition for electrical stimulation of nerves without injury. The condition is that not only must the currents alternate between polarities but, they must also be balanced in current values (+-) versus time. That is if you apply a current, of say, 1.0 $\mu$ A for one second of one polarity then you must balance this by applying a current of the opposite polarity of 1.0 $\mu$ A for one second or, 0.5 $\mu$ A for 2 seconds. That is, the total (quantity) current of one polarity must be balanced with a corresponding total current (quantity) of the opposite polarity and this balance must be achieved within a certain time window. This time window which is dictated apparently, by the electrophoretic movement of cellular materials across cell membranes by applied currents, is about 2 seconds (0.4Hz) which, seems to set the lowest frequency of currents that can be used in CES.

Another point of difference between CES and TENS is the habituation effect. The nervous system, especially the brain tends to "tune-out" repetitive stimulus as meaningless and it appears that this is one important mechanism by which TENS achieves pain relief. The unvarying stimulus presented by the pulses of the TENS current or near the site of pain induces the CNS (brain) to tune out both signals. With CES the CNS' ability to habituate is undesirable so that a random, balanced, factor is added to the CES waveform. A good way to achieve this is to add white or pink noise to the CES waveform. Another way is to use another waveform, usually rectilinear pulses. In the waveform, the former being at a different frequency. The phase difference between the two frequencies produces a series of pseudo-random "glitches" in the wave where the features of the two waveforms are not in synchronization. Yet another similar way is to use rectilinear pulses in the CES waveform and switch the polarity of the pulses at a different frequency than the basic CES frequency. Note that the minimum switching frequency would be roughly 0.4Hz due to the time limit for balancing the current. Again, this scheme produces pseudo-random "glitches" which apparently, the CNS interprets as ever novel. This is one commercial (highly expensive!) CES machine that uses a waveform similar to this. The author's version uses white noise as the random factor.

There is one further difference between the truly modern, CES machine and the usual TENS unit. If you take an analog (meter type) ohmmeter and using large area electrodes you can attempt to measure the resistance presented by the CNS. If you start out assuming a resistance of about 5-10 K ohms and using the R x 1,000 ohms range you will find that after initially going to about 3 to 5 K ohms, the presented resistance will start climbing and end up reading 40 to 50 K ohms. If you then switch to the R x 10,000 ohms range to get a more accurate reading you will observe the initial reading of 40 to 50 K ohms but, then you find the reading decreasing to a low value of 3 to 5 K ohms giving the lie to the explanation of electro-polarization effects being responsible for the effect of the shifting resistance presented by the CNS. Apparently, the brain is able to avoid externally applied current by some sort of "reorganization" which, amazingly, is subjectively imperceptible!

A further item in this puzzle is that when rectilinear pulses are applied to the CNS by use of a conventional circuit such as an emitter follower the leading edges of the pulses will roll back indicating a complex impedance (capacitive?) and an impedance mismatch which is guaranteed when the brain is connected to a fixed impedance source of current. There is a way around this and that is to use a circuit trick that just about every CES manufacturer won't talk about -- the biphasic (capable of both current polarities) or bilinear constant current source. These tend to be obscure circuits but, once in a while they appear in the electronics literature. This circuit will supply constant current within a given impedance range.



and can maintain this current with great precision no matter how the impedance may vary, within the given range. I will give more details on one type of this variety of circuit later. For now it is sufficient to say that the constant current source is the trade secret of the modern CES machine.

Now the question of the Why and How of CES arises: The why is much easier to answer than the how, and even the why is difficult to say. The reason? The reason is due to the above mentioned bias against electro-therapies now thoroughly entrenched in the U.S. Medical Establishment with the result that CES therapy was/is pioneered in Europe and the results are scattered through out medical literature that is non-English languages and is hard to obtain. What literature that is available in this country is sparse and limited in scope. This is further complicated by the fact that CES Therapy is the most recent "buzz word" that fortunately, everyone seems now, to be saluting. Previously CES was known by other designations such as NET (Neuro-Electric Therapy), TCET (Trans-Cutaneous Electric Therapy), and CET (Cutaneous Electric Therapy) and soon. An interesting paper trail to follow!

Briefly with what little documentation that is to be found, CES obtains a variety of clinical effects, the chief among these is Anxiety relief. This is not to be confused with Panic Attack Disorder. The literature on CES is silent about any efficacy in P.A.D. as the latter is an only recently recognized malady and CES is barely recognized (if at all!). CES has been found to have good effect in depression but, again, the literature doesn't make clear whether it is effective against essential depression (ie, depression without apparent cause) or against the depressive mode of manic-depressive disorder (bipolar affective disorder)! But, there is one area where CES clearly has a beneficial effect, and that is the reversal of memory deficit associated with chronic alcoholism. CES induced recovery of memory function in alcoholic recovery requires only a few months as opposed to the several years usually required without CES. The question arises as to what CES can do for the memory function in normal people? A recent double blind study involving people learning a computer typing game while using CES gave a clear positive result indicating that CES can facilitate the memory processes required for learning a new task. CES also has been shown to be of value in reducing the frequency and severity of migraine headache attacks. There are probably a lot more clinical conditions that CES is of use in but, as I said above the literature in the English Language is limited.

Now, the question as to how CES does what it does.(?) Unfortunately, not too much is known about its mechanism(s) of action. It has only been in recent years that there has been any proof that CES currents, applied to external electrodes, entered the brain. Prior to that, some critics maintained that the current didn't penetrate the very tough membranes that surround the brain and that any effects observed were due to the placebo effect. Observations in animals with electrodes inserted into the brain tissues demonstrated cur-

rents at about the expected levels for a diffuse current. But, the question remains as to how CES obtains its effect which, is not unexpected as most of the disease conditions mentioned above are not understood in their etiology. It is suspected that CES derives its results mainly from two mechanisms. The first is that the CES currents modulate neuro transmitter systems and neuro hormonal systems which relate to the other two (suspected) modes of operation. The second is that the CES currents stimulate the growth of neurites, the "fuzz" like projections on the surface of neurons that interconnect the individual cells of the brain. There is no "free lunch" here, however. In recent years it has come to be understood that any novelty presented to the brain, whether it is via CES currents or by the traditional five senses will cause an increase in the density of neurites and brain mass. But, if the new neurites aren't committed to use the brain will reabsorb the new neurites. For CES to cause an increase in neurites and brain mass the currents may have caused a release of nerve growth hormones. This leads to a speculation that CES may be of value in any condition of neurological impairment such as stroke, Alzheimer's (?), etc. but, the author is not aware of any CES studies done in these areas.

A third mechanism (and this just the author's idea as far as I know) comes from what I call the "baseline effect." The idea is that the physiology of the brain is governed by regulated processes that try to adjust to a genetically determined baseline. The process of living can result in the skewing of the CNS regulatory processes away from this genetic baseline (stresses) by pathology (both physical and "mental"). Then when CES currents are applied to the CNS the current adjustment of these regulatory processes are interrupted (abruptly skewed further) and when the currents are removed the regulatory mechanisms go to a new adjustment, towards the genetic baseline. Of course, it will be a long time before US medical research, dragged kicking and screaming into electro-medical research by positive results from Abroad, will confirm or deny the above idea. But, given the global results CES therapy seems to achieve, (CES can operate on a multiplicity of complaints at once and give important amelioration in all of them,) it is easy to suspect something like this speculation (above).

So you can see that there are no firm answers in CES but the neurite growth ability is the firmest of these and is the most valuable of CES effects. Novelty can be expensive in our commercial/social world whereas CES is cheap after the initial expense; cheap and super convenient! Having CES available means one no longer has to pay money out of pocket and spend weekends with some fat-assed "Guru" for psychological and "spiritual" novelty!

Now the question arises as to when CES therapy is contraindicated (not to be used). Again, there is a paucity of literature as CES is not widely used in English speaking countries. Given CES's apparent ability to modulate neuro-transmitter and neuro-hormonal production, it seems to be a good idea to forego any CES exposure during any

stage of pregnancy. The author admits that this seems unfair but as the saying would have it, "it comes with the territory."

There is also the question of using CES while on medications. The author's suggestion is don't attempt any CES without consulting with your Doctor or health professional *first!* I would say that this is especially a must if you're taking any form of mood altering medication. Probably, the Doctor or health care professional will say the use of CES but, remember he/she is facing the same paucity of literature the researcher is facing and thus, there is nothing to guide them. Remember the fact that CES can modulate biochemical systems and that your tolerance to a given drug could go way out in left field with possible unhappy results. "Do what the Doctor sez!" Then, there is the question of using CES in the presence of convulsive disorders. (!) Again, there are no clear guidelines. In some clinics the use of CES is absolutely proscribed in cases of alcohol withdrawal where there has been any hint of convulsions. Yet in other clinics CES has been the treatment of choice for alcoholic withdrawal convulsions! Then there are the results obtained by Margret Patterson and her co-workers by the use of their "black box" in the withdrawal from a variety of hard drugs with considerable success. Patterson's black box seems to be a CES-like machine but, with a variety of waveforms available such as triangle and sinewaves as well as squarewaves. So it would seem that CES is rather benign in the case of convulsions caused by substances that are foreign to the nervous system.

What about the use of CES by epileptics? Good question! The author knows personally of one person who uses CES casually for anxiety relief and has a condition of petite mal epilepsy (temporal lobe) that is controlled by medication. This person reports no untoward effects! Given the usual paucity of English Language medical literature and the lack of translations of the European experience of using CES in the presence of epilepsy, the author can only recommend unbending conservatism in the matter. Note also though, that it is thought the majority of people who have non-motor forms of epilepsy are running around undiagnosed! So there must be other epileptics out there who are using CES without apparent exacerbation of their unsuspected condition. Just an observation!

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# NEPTUNE'S PRIMORDIAL OCEAN

Alison Davidson

*"...this deep and endless source of magickal imagination and gnostic consciousness." H.F. Jean-Maine*

Something was perturbing the motion of the newly discovered planet Uranus; all indications pointed to the existence of another planetary body, but so distant from Earth as to be almost invisible. The French astronomer Urbain Leverrier calculated the position of this unknown planet and his predictions coincided with those of a young English mathematician John Adams. By 1845 both were able to predict where the 8th planet might be found, but an official search was plagued by delay and frustration. Leverrier eventually had better luck and a search by the Berlin observatory found the faint greenish star-like object on September 23, 1846, so distant that "trying to see details of Neptune from Earth is like trying to see details on a quarter from a distance of a mile." For the first time a planet was discovered by applying mathematical theory rather than observation through a telescope; suddenly the solar system had expanded tremendously.

After Voyager 2 flew by Neptune in 1989 millions of people across the world experienced the wondrous sight of this distant world for the first time, with its deep aqua blue methane-rich air and system of tenuous rings. Also revealed was the Great Dark Spot in Neptune's atmosphere as large as Earth itself and similar to the red spot on Jupiter. Close-ups of the satellite Triton exposed a frigid surface (-236°C), looking somewhat like the skin of a cantaloupe. Nereid and other newly discovered moons complete the picture of Neptune's mysterious family.

The confusion and controversy surrounding this planet's discovery is typical of Neptune's character. Named after the Roman god of the sea, Neptune symbolizes the subtle and ever-shifting ocean of energy which lies beyond the world of appearances. In this respect Neptune is 'outside' the traditional system of correspondences which connect the inner planets with specific metallic substances on earth. Instead, "Neptune tunes one into the reality of the unseen, immaterial forces of life."

Just as the ocean dissolves all elements into itself, so the formless and boundless Neptune dissolves away all limiting structures and conceptions, all distinctions between energy and matter, between spirit and body. With Neptune we are dealing with a force "...beyond the fringes of reason or of anything comprehensible to the logical mind." We are touching on the mystery of life itself, the giver of inspiration and mystical visions, shunned by the sane and ratio-

nal scientist who is endlessly concerned with cataloging, classifying, categorising, imposing fixed, exact facts, limits and boundaries.

This boundless ocean of primordial energy which gave birth to all form, is an image common to all ancient mythologies. In the Egyptian tradition the god Nu was conceived to be the deep and watery mass from which primordial matter arose. The goddess Nuit was his creative counterpart, containing and giving direction to this primal energy. The letter-sound N with its undulating 'electrical' waves is the hieroglyph for the primary water-energy, "...for original Energy is like still water which, under impulsion, manifests itself in waves and these, growing as they go, carry the energy from centre to circumference."<sup>1</sup>

Thousands of years later this image still remains with us... Theodor Schwenk writes: "Natural philosophy in the time of Goethe and the Romantic movement still gave water its place as the image of all liquids and the bearer of the living formative forces. People experienced the fluid element to be the universal element, not yet solidified but remaining open to outside influences, the unformed, indeterminate element, ready to receive definite form; they knew it as the "sensitive chaos"."<sup>2</sup>

This primordial energy, imbued with 'living formative forces' has also been called the *Aethyr*, or the *ethers*, among other names, the focus of great interest for researchers outside the mainstream of modern science. Here in the invisible realm of the ethers the esoteric knowledge of the past and natural science coalesce.

Much has been written on the ether, but little finds its way into mainstream scientific journals. Following here is a brief history of the ether concept; as Sir Oliver Lodge called it, this "universal and possibly infinite uniform omnipresent connecting medium"

From *Glimpses of the Unseen World* by Carl F. Krafft: "The existence of a single universal substrate for all different substances has been vaguely suggested in the Homeric poems, dating as far back as the ninth century B.C., in which doubt was expressed as to whether there were really as many different kinds of matter as the endless variety of substances that we find in nature. In the Homeric poems, and also in the subsequent teachings of Thales during the sixth century B.C., water was considered to be the universal substrate from which all other substances were produced. Although water is definitely not the ether, still the underlying

thought of having a universal substrate is almost as old as recorded history itself, and it is therefore not surprising that the relativists have not been successful in their efforts to abolish the ether.

"A closer approach to the modern ether theory was made by Anaximander (611-54 B.C.), a pupil and successor of Thales. Anaximander did not recognize water as the primary substance, but postulated a substrate namely the 'Infinite', which he described as being more rarified than air and different from any of the elements, but from which all elements (namely, air, water, fire and earth) were produced, and to which these elements would return when destroyed.

"Anaximander's Infinite was commented on by Aristotle with the remark that 'it is not necessary to prove that the Infinite should actually be matter that sense can perceive,' and similarly we are today told of the ether that is not a form of matter that we can perceive, but nevertheless the source of all subatomic particles of which matter is composed. Anaximander declared that the Infinite is in perpetual motion and that if its motion ever ceased, the world would cease to exist. This is nothing else than a paraphrased version of the modern ether theory with its vortex protons, electrons and neutrons which owe their very existence to their motion."<sup>3</sup>

Some early researchers have related the properties of ether to electricity, such as Dr. Henry Moray who wrote: "Where ether ... quiescent, we see nothing. Light causes vibrations of this 'ether' and it is these vibrations which cause our eyes to detect. All substances are really combinations of one primordial substance, i.e. electricity, or, in other words, electricity is specifically modified ether."

He went on to say "...all space is saturated with energies which are doubtless electrical in their ultimate energies or very closely allied to electrical action. The relation of matter to energy and energy to matter then becomes the potential of the universe, one continuous series of oscillations, oscillating to and fro like a great pendulum across the universe."<sup>4</sup>

Some of the most comprehensive descriptions of the ether in modern times come from the teachings of Dr. Rudolf Steiner and his followers. He defines seven etheric forces, with one manifesting in the phenomenal world, the ancient elements of fire, water, air and earth which he gives the names warmth, light, chemical and life ethers. These four ethers are described as the carriers of the formative forces from the supersensible spiritual world above. Below these four ethers lies the sub-material world, the realm of electricity, and nuclear force. Far from being the vital substance of life, Dr. Steiner called electricity a 'fallen' or 'corrupted' ether.

It's a curious fact that the discovery of Neptune coincided with great advances in the electrical sciences, paving the way for the vast network of electronic technology that our civilization has become totally reliant upon. But as electricity became the dominant force and source of energy, the ancient concepts of the ether with its spiritual qualities were abandoned by all but a handful of dedicated researchers, the heretics of modern science.

Among those were the practitioners of various healing arts who extended their perceptions into the etheric and demonstrated its reality in a very practical way, for example, the Radionic instruments and Radio-Vision photographs of Dr Ruth Drown. Echoing the ancient wisdom she repeated many times: "There is but One Life, One Substance, and One Energy! All the phenomena are only precipitates of the one energy functioning at various rates of vibration... The Drown Radio Therapeutic Instruments are a means used to catch and hold a certain amount of the Life Force of a patient being treated... In its greater sense, the Life Force is a Light which passes through sublimation into a form of energy, then down to gases, and finally is condensed into liquid, in which state it flows over the nervous system and through the blood vessels. From this phase it crystallizes into form."

With her Radio-Vision Instrument Dr Drown could take photographs of her patients anywhere in the world. As she said, "the vibration of everything in the world is *where we are*; we need only take it out of the ethers and pass it through our instrument in order to treat a patient at a distance, or make a picture of any part of his body."

Around the same time, during his remarkable bion experiments, Dr Wilhem Reich was also discovering the universal life energy, a primordial mass-free energy which he called "orgone." He called this energy orgone, as Trevor Constable writes "...to identify it permanently with things organic, with the orgasm and with life. He proved its existence visually, thermally, electroscopically, and later on, at the Geiger-Muller counter and by lumination in vacor tubes."

Mark Gallert describes it further... "The indications are that orgone energy is everywhere, throughout all space, and that it pervades even the so-called 'vacuum'. It would seem that orgone is, in reality, the cosmic ether for which scientists searched so diligently several decades ago....Dr Reich's term for the ether is the "orgone energy ocean."

Constable, a true pioneer in the etheric sciences, expanded upon the work of Dr Reich and has dramatically demonstrated the reality of the ethers with his weather engineering experiments, reported in detail in previous issues of this Journal.

## THE SPIRITUAL ETHER

*"Those who for some reason dislike the world ether, scatter mathematical symbols freely through the vacuum, and I presume they must conceive some kind of characteristic background for these symbols. I do not think anyone proposes to build even so relative and elusive a thing as force out of entire nothingness."*

Sir Arthur Eddington

If the existence of this primordial life energy has been so well established, why is science determined to ignore it? The problem with the ether concept is that it crosses all the boundaries that have been so painstakingly drawn between the spiritual and the material worlds. Science would rather spend billions of dollars looking for some hypothetical sub-atomic particle that may have once existed than entertain the possibility of a living energy imbued with the qualities of soul and spirit. For god's sake, leave life out of the equation!

Science can measure all the parts of a rose, even dissect it and describe the separate bits, but it can't even begin to convey the rose's beauty, its perfume, its effect upon the soul. Science is no longer concerned with quality, with essences, with the whole. It has locked itself into a narrow dark world of mental abstractions, even though the scientists themselves still dream, fantasize, have sex, feel beauty and love (or do they?) While science and art were once synonymous, now there is the greatest contempt of one for the other, an abyss between what we feel and what we are given as 'facts'. By removing spirit from substance science has given us a dead world, purely mechanical and devoid of meaning.

On the other hand, spiritual science emphasizes that the "ether has not only quantitative but also qualitative characteristics, the latter of which can by no means be separated from the former -- that is, supersensible, spiritual characteristics."

The idea of spirit and matter being two independent and separate realities is only a relatively new concept promoted by Descartes and others who were persuasive mouthpieces for the 'dry rationalism' that spread and became deeply entrenched throughout the western world. For people of earlier times this fractured world-view would have been regarded as a strange mental aberration. How could matter and spirit be separated when they were twin aspects or poles of one divinity? "Matter was still regarded as the 'mater', the motherly element, in which the spiritual forces of the universe were embodied."

This direct contact of the individual with the spirit world, without an intermediary, was anathema to the early christian church which as it gained power sought to stamp out all traces of the old religion. Neptune's trident, through which the powerful torrents of the life-force

surged, became the devil's tool and an arch-symbol of evil.

Describing the early alchemists, who were forced to go underground to save their skins, Aleister Crowley wrote: "They always begin with a substance in nature which is described as existing almost everywhere, and as universally esteemed of no value. The alchemist is in all cases to take this substance, and subject it to a series of operations. By doing so, he obtains his product. This product, however named or described, is always a substance which represents the truth or perfection of the original "First Matter"; and its qualities are invariably such as pertain to a living being, not to an inanimate mass."

The alchemists called the ether a *materia* or *quintessence*, which forms the basis of the four elements, fire, water, air and earth. But the soul is also referred to as the primordial *materia* of the spirit, and all souls are said to be made of this one substance.

A parallel is found in Tibetan Buddhism where the four elements of nature correspond to the psychic centres in the human organism; the root centre at the base of the spine corresponds to the element earth, the navel centre to water, the heart centre to fire, the throat to air, and the centre on the crown of the head to the element ether. As consciousness unfolds through these psychic centres and reaches its height "the dark seed, containing the essence of the universe...breaks open and bursts forth into the dazzling flame of enlightenment." This "flaming drop" signifies the element ether, (or space, in its passive aspect), and its Sanskrit term is *akasa*. To quote Lama Anarika Govinda: "The active aspect consists in the idea of an elementary vibration of point-like, infinitesimal units of invisible energy penetrating the whole universe... Thus *akasa* is all-pervading ether and all-containing space, the synthesis of all that exists, and therefore the symbol of the essential unity of cosmic, psychic, and physical energies."

Light and motion have always been mentioned in connection with the living ether. Around the 5th century B.C., Heraclitus described the ultimate substance as the "Fiery Ether" or "Divine Fire" and he interpreted it as both primitive matter and divine intelligence, or "world-ruling wisdom." It was the essential substance of both matter and soul.

"Spiritual and corporeal are simply terms which express the degrees of tenuity or density in substance," the famous occultist Eliphas Levi wrote, describing the "impalpable omnipresent ether" as a universal or fluid agent, and also as the "primordial light, which is the vehicle of all ideas ...the mother of all forms." In combination with extremely subtle fluids, he said, this Astral Light forms the Ethereal Body.<sup>11</sup>



## LITHIUM - THE ETHERIC ELEMENT

Although Neptune by its nature defies any rigid classifications, there is one metal that has been associated with this planet in esoteric writings -- lithium, the lightest metal known. After the gaseous hydrogen and helium, lithium is the first solid on the Periodic Chart.

Described as a "white non-metallic metal" lithium is a powdery substance always found naturally combined with other elements. It was discovered by the Swedish chemist John Arfvedson in 1817, 30 years before the discovery of Neptune.

Lithium has been called the gateway between mind and matter and is especially connected with the pineal gland. Haroldine, in her comprehensive book *Lithium and Lithium Crystals*, calls it "the primary structure foundation base of all other matter in solid form... Sometimes referred to as an ETHERIC ELEMENT...lithium is the main connection from etheric on into the physical plane and controls the primary formation of human life via our nervous system - the 'entrance in' so to speak. The 'entrance back out' is adequate lithium supply in system to allow the natural opening of 3rd Eye - our pathway to higher consciousness."<sup>12</sup>

In the body lithium is a necessary ingredient for the building of cell walls, and in the sheaths covering the outgoing nerve endings. It has a strong connection with the spleen and immune system "the chief communicator between body and mind," and is deeply involved with the mysterious process of transmutation of bioelements in the cell nucleus, particularly potassium, sodium and beryllium.

Displaying its affinity with Neptune's fluidic energies lithium reacts vigorously with water, and its compounds display an incredible ability to absorb water, a property that is put to use in air purifiers, respirators and air conditioners. Constantly filtering through into Earth's atmosphere Haroldine describes interplanetary lithium as "the essence/ether form carrying water to the Geosphere."

Lithium has a tremendous range of application in today's world; from therapeutics to thermonuclear technology. Its unusual nuclear and electronic properties give it a great diversity of uses in industry. A lithium isotope serves as nuclear fuel in lithium reactors, and in the rocket and aerospace industry a compound containing over 50% lithium is used for solid rocket propellant. Lithium alloys have many valuable uses in

the metal industry. One lithium-magnesium alloy is lighter than water, another remains untarnished by time. Lithium is used as an industrial catalyst, in battery electrodes, as a base for machine lubricants, in the ceramic industry. Lithium-modified glasses have valuable optical properties, and telescopes with lenses made of lithium fluoride are of the highest quality, enabling astronomers to see even deeper into the vastness of space.

The remarkable healing qualities of lithium have yet to be fully explored, whether used in its natural crystalline form, or in lithium compounds which are prescribed for schizophrenia and manic-depression. However, recent reports have shown that lithium compounds used in medicine have a much lower success rate than previously thought and often produce severe side effects. While natural lithium, such as found in mineral springs is highly regarded for



its therapeutic value and people in areas fortunate enough to use this water are reported to have a significantly lower incidence of mental illness.

The dissolving and emotional qualities of Neptune are especially revealed in the balancing and healing properties of the various natural lithium crystals which, as Haroldine says, "act as a non-invasive method of achieving balance for the individual by removing barriers and blocks from the physical body wherein all incompleting emotional trauma is stored."

### NEPTUNE'S "DIVINE DISCONTENT"

Inspiration, imagination and intuition are the words given by astrologers to describe Neptune, ruler of the watery sign Pisces and the mysterious 12th House. Everything Neptune touches it refines and sensitizes. Often referred to as the love of Venus on a higher level, Neptune tunes us emotionally to higher and more

subtle levels of feeling. It serves to awaken the spiritual nature, urging us towards other states of consciousness.

This visionary quality of Neptune relates to the pineal gland where the animating light or life force enters the body. When activated it opens the Third Eye, the organ of clairvoyance, enabling us to perceive the ocean of energy in which we live, the rhythms and currents of the subtle etheric web. So Neptune naturally rules mediums, psychics, occultists and healers, opening up a direct connection to the spirit world.

All drugs, alcohol and hallucinogenic substances are under Neptune's influence, anything that frees the imagination from Saturn's earthbound grip. It's interesting to note that tobacco, the sacred Native American herb, contains appreciable amounts of lithium. From the most ancient times Neptune has inspired the use of psychedelic potions, magic mushrooms, cactus

flyings ointments. Every culture has its own traditional mind-altering substances including such Neptune-activated drugs as LSD which thrust a whole generation directly into the etheric ocean.

Both madness and illumination lie in Neptune's dreaming depths from which the artist brings vision to film and poetry, inspiration to all forms of art, dance and music. It is the essential quality of art and music to speak directly to the heart to lift our spirits and transport us into other worlds. Against lithium, showing its relationship to Neptune's subtle universal energies, is said to have "fundamental harmonic that resonates with every note of the

musical scale."

But when inverted Neptune becomes the instrument of delusion and deception. Unless the individual is well-grounded in Saturn's hard reality before 'spacing out' there is always the danger of becoming psychically devastated, to be cast adrift into an ever-shifting sea of delusory images as the ego is dissolved in Neptune's boundless ocean.

### THE COSMIC STIMULUS

Powerful and naked, with his thick hair dishevelled, the sea-god Poseidon rides his chariot over the surging waves with his wife Amphitrite, the Nereids and other dwellers of the sea. At other times he stands on the water swinging his trident and gazing out across his domain. Far below, hidden in the ocean depths lies his golden palace.

Early on, the Greek god Poseidon was identified with Neptune. With his trident last



while he caused storms and shipwrecks he was also known as "The Preserver" and "supporter of the earth"; sailors and every occupation dealing with the sea were under his protection and temples were erected on headlands high above the waves in his honour. Horses and dolphins were especially sacred to him, and black bulls symbolic of the stormy sea were thrown alive into rivers to placate him. He was a lusty god carrying on numerous affairs with nymphs who bore many offspring, often wild and cruel.

We can only wonder how the massive pollution of our rivers and seas is affecting Neptune and his oceanic family. Do the Nereids still play in waters choked with plastic and miles of abandoned drift nets? Do the sirens still sing on slimy rocks above the splashing of raw sewage and industrial waste? Will Neptune raise his trident and send even greater storms and tidal waves to punish the desecrators of his sacred oceans?

Neptune's three-pronged tool is also carried by Shiva, the Hindu god of ecstasy and dissolution. In the Qabalistic tradition Neptune's phallic symbolism is attributed to Chokmah the second sphere on the cosmic Tree of Life. Called "Wisdom", and "the illuminating intelligence," Chokmah lies above the Abyss, above and beyond the world of form as "the dynamic force of life, which is spirit, that ensouls the clay of physical form." It is "formless, being the pure impulse of dynamic creation; and being formless, the creation it gives rise to can assume any and every form."<sup>13</sup>

It was this cosmic force the ancient pagan traditions celebrated with their phallic worship and ecstatic ritual. Dance, chanting and music, all of these aspects of magical ritual belong in Neptune's sphere, and the ritual patterns, mandalas and talismans formed under astral and etheric influences. In the sophisticated cosmology of Haitian Voodoo these ritual designs or veves are described as "condensers of astral forces and ritual attractors of planetary powers."<sup>14</sup> Traced on the ground with flour or cornmeal the geometrical patterns of the veves give visible form to the etheric currents, attracting the astral planetary fluids and spiritual influences which the designer "captures" in order to accomplish the magical work.

Although the symbolism relating to Chokmah is generally phallic in nature there is an ever-fluctuating polarity within Neptune's boundless ocean; neither purely masculine or feminine but a continuous merging of one into the other.

According to Robert Graves, Poseidon originally had nothing to do with the sea and only acquired his rulership over the waters when the sea-goddess Amphitrite, the "all-encircling triad", was forced into marriage with him. Pallas Athene, the Greek goddess of wisdom attributed

to this sphere, was also originally a sea-goddess.

Even earlier, long before the Greeks formed their patriarchal hierarchy of gods, the trident signified the triple goddess of the new, full and waning moon worshipped throughout the Celtic world from pre-historic times. She was the Mare-goddess, the triple-Muse, inspirer of poets and bards, and the guardian of natural springs from which her creative power was conceived to flow. A deep understanding of her lunar and etheric rhythms was vital for the success of all magical operations.

Perhaps more than any other occult symbol the trident represents the plunge into the deepest levels of the unconscious mind to where Neptune's golden palace is concealed, the secret place of crossing over into the world of spirit. But this point of crossing over, or reversal from the known to the unknown worlds, is guarded in all traditions by frightening and wrathful deities such as the "mighty demon" called Choronzon. Occultist Kenneth Grant refers to this entity as a corrupted form of Chozzar, the ancient god of Atlantean magic, an earlier form of Neptune symbolized by "the triple-tongued flame of spirit". As the Guardian of the Deep, this fearful entity watches over the ultimate gateway through which extra- or ultra-terrestrial contact is established. This is the nature of the "hidden" or "forbidden" knowledge of Chokmah, forbidden because it points the way of access to other, non-human dimensions.

Neptune's sacred dolphins are symbolic of this other world contact, a memory of the half-human half-fish deities worshipped in the most ancient times, sea beasts such as Dagon and Oannes who were said to have come from distant star systems to give their knowledge for the evolution of the human race.

In modern times, the resurgence of interest in the etheric sciences has also coincided with an immense fascination for UFOs and alien contact. Back in the 1950s Meade Layne, the founder of Borderland Sciences, wrote extensively about flying saucers (or ether craft) as coming from the etheric worlds which interpenetrate our own world of matter.

In his extraordinary book *Contact With Space*, Dr Reich also documents the appearance of UFOs during his cloudbusting experiments involving the orgone energy ocean. The contact was overwhelming in its implications, and led many of his more orthodox followers to believe that he had gone insane. But as Reich himself wrote: "Earthmen had encountered space as it really was; not as science had conceived of it heretofore... I knew, we had without intending it, drilled a hole, as it were, into the wall which had for millennia separated man from the universe around him."<sup>15</sup>

The mysteries of Neptune take us far beyond any rational explanations or comfortable conclusions. What begins as a simple explora-

tion of the etheric worlds becomes an ever extending journey into the infinity of spirit. While certain of its qualities and processes can be described, the ether itself ultimately remains elusive and indefinable; it can only be experienced and understood by developing the higher organs of perception. To attempt to harness or manipulate the ethers without understanding the spiritual forces they embody is to fall into the same blind trap of our present materialistic science. But the future scientist like the alchemist of old will know that the transmutation of matter and consciousness, in the hyperphysical space of the ethers, are one.

As Eliphas Levi said: "The Great Magical Agent, by us termed the Astral Light, by others the soul of the earth, and designated by old chemists under the names of AZOTH and MAGNESIA, this occult, unique and indubitable force, is the key of all empire, the secret of all power."

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# THE GLOBAL GRID

## A STANDING 21 CM HYDROGEN WAVE

by Albert Zock

Up to and during the 70's, Curry and Dr. Ernst Hartmann postulated there is a global grid of standing cosmic waves, induced by sun rays. This grid is magnetic oriented, its bands have a width of 21 cm. and run from the magnetic north pole to the south pole, and in a right angle to it, from east to west. The distance between its beams, measured in Middle Europe, is from east to west 2.52 meter and from north to south 2.0 meter. This grid is everywhere, in the open as in buildings and its cross-points are pathogenic!

Ernst Hartmann's brother Robert, likewise a Borderland scientist, looked deeper into the 21 cm. Hydrogen wave. The grid and the hydrogen wave share the same wave length, but are both the same! Maybe the two 21 cm. wave lengths are only accidental, as the grid wave is a structural wave, whereas the hydrogen wave is known but the 21 cm. structural H-wave has not yet been discovered. Using the 21 cm. wave as a constant, he started mathematically to unravel its secret. First Robert compared the 21 cm. H-wave to the presumed measurement of the grid-structure. In the east-west direction, he divided the 2.5 meter or 250 cm. by 21 which is 11.9, also not complete 12 times. As a travel-distance of a wave can only be measured in whole wave-length or at least in half waves, the 2.5 meter had to be slightly corrected to 2.52 meter, as 12 wave-length, formula, of 21 cm. equal 252 cm., which means that the first measure-

ments, laid down by dowsing were only 2 cm. off, which proves that dowsing can be very accurate indeed. The north to south distance or length has been estimated to be 2.0 meter. Dividing 2.0 meter or 200 cm. by 21 cm. = 9.5238 or 9 1/2 waves. Counting it in reverse,  $9.5 \times 0.21 = 1.995$ , that means the dowsing of

### Grid spectrums North-South

$$d \cdot \sin \alpha = n \cdot \lambda$$

$$19 \lambda \sin \alpha = n \cdot \lambda$$

$$\sin \alpha = \frac{n}{19}$$

$$d = 3.99 \text{ m} = 19 \lambda$$

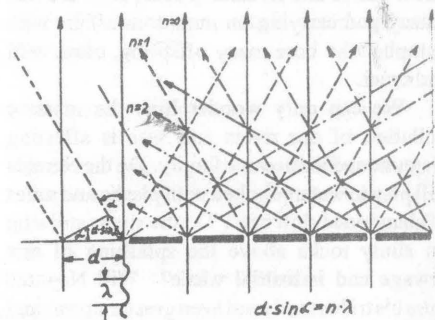
$\sin \alpha = \frac{0}{19} = 0$	$\alpha = 0^\circ$	0. order
$" = \frac{1}{19} = 0.05263$	$\alpha = 3^\circ 1'$	1. "
$" = \frac{2}{19} = 0.10526$	$\alpha = 6^\circ 2'$	2. "
$" = \frac{3}{19} = 0.15789$	$\alpha = 9^\circ 5'$	3. "
$" = \frac{4}{19} = 0.21052$	$\alpha = 12^\circ 9'$	4. "
$" = \frac{5}{19} = 0.26315$	$\alpha = 15^\circ 15'$	5. "
$" = \frac{6}{19} = 0.31578$	$\alpha = 18^\circ 24'$	6. "
$" = \frac{7}{19} = 0.36842$	$\alpha = 21^\circ 37'$	7. "
$" = \frac{8}{19} = 0.42105$	$\alpha = 24^\circ 54'$	8. "
$" = \frac{9}{19} = 0.47368$	$\alpha = 28^\circ 16'$	9. "
$" = \frac{10}{19} = 0.52631$	$\alpha = 31^\circ 45'$	10. "
$" = \frac{11}{19} = 0.57894$	$\alpha = 35^\circ 22'$	11. "
$" = \frac{12}{19} = 0.63157$	$\alpha = 39^\circ 10'$	12. "
$" = \frac{13}{19} = 0.68421$	$\alpha = 43^\circ 10'$	13. "
$" = \frac{14}{19} = 0.73684$	$\alpha = 47^\circ 28'$	14. "
$" = \frac{15}{19} = 0.78947$	$\alpha = 52^\circ 8'$	15. "
$" = \frac{16}{19} = 0.84210$	$\alpha = 57^\circ 22'$	16. "
$" = \frac{17}{19} = 0.89473$	$\alpha = 63^\circ 28'$	17. "
$" = \frac{18}{19} = 0.94736$	$\alpha = 71^\circ 20'$	18. "
$" = \frac{19}{19} = 1$	$\alpha = 90^\circ$	19. "

the north to south distance was only a fraction of 5 millimeter short.

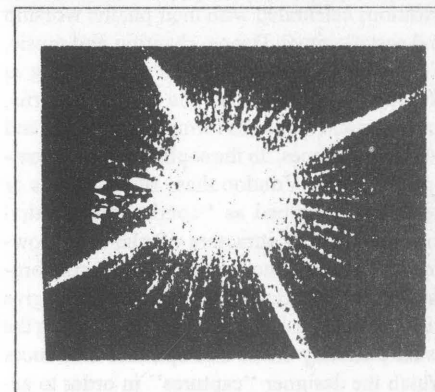
This simple calculation further proved how, on the earth's surface, the structural H-waves manifest itself! The early postulations that the grids are reflections of sun rays, cosmic imposed, is a shaky explanation, because how could cosmic influences, by our planets staggering rotation on its long journey around the sun, imprint such a fixed structure like the H-wave? On the contrary, such a regular global structure points to an ubiquitous, solid and terrene emanation, which by passing through the earth's crust with its different crystal formations, is forced to arrange itself as a grid. Such a hypothesis makes it easy to understand that all, so called "crossings", in reality are the points where this H-wave energy, from deep within the earth, columnar and vertically rises and emanates,

and as the "crossings" never show any a tenuation, there is every reason to believe that the flow is a constant one. In physics the concept of refraction grating understands a glass plate on which crisscross lines have been

### Grid spectrums



scratched to bend or refract light or electromagnetic waves, a procedure that creates a spectrum! The angle of refraction and wave length determines the direction the maximum refracted light or magnetic wave will travel as all minimum reflections will completely disappear. Hartmann further fancied, if refraction grating works on light and magnetic waves, it may bend the H-waves as well, and mathematically he proved that it does. Studied the refracted light beam on a dark background, it shows a light-cross very clearly. In the case of the light beam, it was the lens of the



camera that caused and impressed a cross image on the negative, whereas the H-wave gets its refraction as it rises through different crystallization in the earth's strata. Similar phenomena appear in telescopes, binoculars even by special atmospheric conditions. People who have cataracts often see street lights like stars, as the crystallization in the eyes causes refractions.

In other words, the global grid is not a grid at all, merely a net of right angled refraction and only the columns rising out of the

### H-wave spectrums East-West

$$d \cdot \sin \alpha = n \cdot \lambda$$

$$12 \lambda \sin \alpha = n \cdot \lambda$$

$$\sin \alpha = \frac{n}{12}$$

$$d = 2.52 \text{ m} = 12 \lambda$$

$\sin \alpha = \frac{0}{12} = 0$	$\alpha = 0^\circ$	0. order
$" = \frac{1}{12} = 0.08333$	$\alpha = 4^\circ 47'$	1. "
$" = \frac{2}{12} = 0.16666$	$\alpha = 9^\circ 36'$	2. "
$" = \frac{3}{12} = 0.25$	$\alpha = 14^\circ 29'$	3. "
$" = \frac{4}{12} = 0.33333$	$\alpha = 19^\circ 28'$	4. "
$" = \frac{5}{12} = 0.41666$	$\alpha = 24^\circ 33'$	5. "
$" = \frac{6}{12} = 0.5$	$\alpha = 30^\circ$	6. "
$" = \frac{7}{12} = 0.58333$	$\alpha = 35^\circ 41'$	7. "
$" = \frac{8}{12} = 0.66666$	$\alpha = 41^\circ 48'$	8. "
$" = \frac{9}{12} = 0.75$	$\alpha = 48^\circ 35'$	9. "
$" = \frac{10}{12} = 0.83333$	$\alpha = 56^\circ 28'$	10. "
$" = \frac{11}{12} = 0.91666$	$\alpha = 66^\circ 27'$	11. "
$" = \frac{12}{12} = 1$	$\alpha = 90^\circ$	12. "

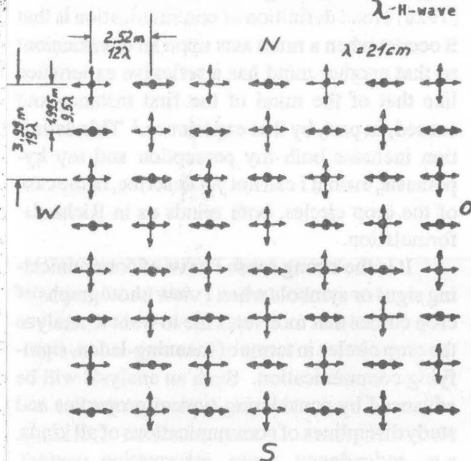


earth, carry the real energy, and wrongly thought to be cross-points. We may have to abandon our views, that every abnormal earth emanation we find, exists by itself. The question now arises, are all columns identical and it is presumed they are. However, their refraction differs considerably, because of the different distances to each other.

In the east-west direction, all distances are 2.52 meters, that is equal to 12 full H-waves, and Hartmann's table #1 shows that only a spectrum of the 12th order can produce a 90 degree refraction simultaneously in two opposite directions. Contrary to that, the constant grid distance in the north-south direction measures only 1.995 meters, allowing only 2 1/4 waves. As basically only complete

### Global - grids H - wave structure

● 4 fold  
● 2 fold  
— Direct.  
— H-wave



waves can produce a spectrum, the nearest cross becomes useless, making it necessary to reach the second point, adding another 1.995 meters, which now amounts to 3.99 meters and surprise, it fits exactly 19 full waves, with a spectrum capability of the 19th order which will beam the 90 degree bendings simultaneously into 4 opposite directions like a cross! Having seen that the global grid is calculable, let's review the whole H-wave structure.

It is conclusive, that in the east to west direction, only spectrums up to the 12th order occur, producing only two 90 degree refractions, one to the west and one to the east, therefore are called 2 folds, whereas the north-south orientation, because of a missing half-wave, one point is omitted and only every second crossing has a spectrum, but of the 19th order, producing 4 right angled refraction and consequently are called 4 folds. By reason of symmetry and stability, the energy-points are not in line but offset, like a chessboard, thus, that 4 folds only connect with 2 folds, and 2 folds with 4 folds. As the spectrum catapults,

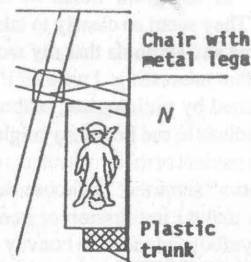
at least in two directions, also against each other, the identical refractions overlap, and the 4 fold refractions create the "Standing Wave"! The constant 21 cm. wide bands along with the H-wave, attain their pick-value, with each complete cycle.

During his calculations, Robert remembered, that the Old Egyptians built their pyramids, without knowing a compass, in an exact north to south direction. He searched in Philipp Vanderberg's book "The Curse of the Pharaoh's" as it lists the measurements they used. To his surprise, the Egyptian pyramid-ell measured 52.5 centimeter and consisted of seven hand-breadth measuring 7.5 cm. each, which in turn contained four fingers of 1.9 cm. apiece. There also exists a 3,700 year old papyrus documenting that all pyramids, measured in full ells, like that the Great Pyramid's base was 360 ells and the height 250 ells giving reason to believe that such an outcome was not accidental, but a clearly planned venture! How did they do it, as by such a great length the hundreds of adjoined ell-sticks or ropes, exposed to unsteady temperature and air humidity causing them to shrink and expand, making an exact measurement impossible, and how did the shape of the pyramid come about? As a start, Robert calculated a finger of the Ell. If you put eleven Egyptian fingers, with their 1.9 cm. together, you get 20.9 cm., that is almost one H-wave. Encouraged by this finding, he compared the Ell with its 52.5 cm. to the 21 cm. H-wave, and if we divide the 52.5 cm. by 21 cm., it fits 2.5 times, that means the Pyramid ell was exactly 2.5 H-waves long. Next he took the base with its 360 ells, and 360 times 52.5 cm. is equal to 189 meters. That is 189 meters in east-west, and 189 meters in north-south. Now that we know the Hartmann grid has in east-west direction a distance of 2.52 meters and 11995 meters in the north-south, we are able to determine how many grid-stands or crossings each direction has. If we divide the east-west 189 meter by 2.52 we get 75 grid-crossings. The north-south base of 189 m. we divide by 1.995 m. and we get 94.7368 or almost 95 gridstands. The height of the pyramid is 250 ells, converted into grid stands, we get in east-west 52 stands, a full number, but 65.78 in north to south. We should not go wrong, if we presume the Egyptians chose the east-west one with its 52 even grid-stands to determine the height.

Even the refraction grating was known to them. Vanderberg gave the Pyramids angle of inclination as 54.15 which corresponds with the 7th refraction order in east-west direction, and is a very close calculation for that time. The total of both angles is 89.56

degree, a deviation from 90 degrees by only 4 points. The same applies to the other sides which have a refraction-spectrum of the 11th order, the difference here is 23 points.

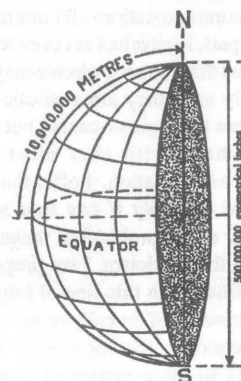
According to Robert, the grid-structure has no positive or a negative, nor any charging or discharging and no right or left oscillation. However, here I like to insert some not generally known findings about the unfavourable grid-stands. There can be long range effects, even into neutral areas, if furniture containing metal parts like coil springs, trim bicycles, lamp stands, chairs with metal legs, electric



heaters, and even plastic boxes like footlockers or other plastic items, if they stand on a crossing or close to one, as such accumulates the pathogenous waves and broadcasts them into, otherwise, safe places.

Robert Hartmann's discoveries clear up a lot of the mysteries surrounding the global-grid, yet, they also bring others.

As said before, these geographical findings were made in Middle Europe, partly above and partly below the 50th parallel. On the American continent that is somewhat above and below the US-Canada border with its 49th parallel. But what about further north into Canada, or deeper into the U.S., Mexico and the Equator? The length of the Globe, from pole to pole has been set at 20 million meters, or 10 million meters from the Equator to each pole. As the north to south grid-points are 4 meters apart, or 3.99 m. to be exact, there are over 2 1/2 million, four-fold-cross-points on each of their lines. A glance at the globe tells us, that the north to south grid-stands, with their 19th order of refraction will remain



continued on page 22

# A SEMIOTIC APPROACH TO CEREOLOGICAL INTERPRETATION: *SKEPTICISM AND PROSPECTS*

by James T. Westwood

When, in 1990, I first viewed photographs of the crop circles, I was struck instinctively and at once by what seemed to be the immediate, if not also dramatic, semiotic qualities of the crop circle "etchings" in the grain fields of the United Kingdom. They seem so clearly to take only the form of signs and symbols that my wonder was, "my, isn't that interesting. I wonder if they have been examined by philologists, anthropologists and semioticians to see how they might conform with known ancient or modern systems of signs?"

The term "semiotic" I choose deliberately to denote a mental impression or perception of signs and symbols intended to convey a communication of some kind, however simple or complex, semiotics being the science of signs and of systems of signs. The idea of pictographs or of ideographs springs to mind, but if crop circles are authentic (i.e. not hoaxes), they may be more abstract and connotative than typically are pictographs in particular or, less so, are ideographs.

For me it is difficult to imagine that any serious observer of the crop circles would not be affected, if only momentarily, by the articulation of what I am inclined to call these "cereographs." In using this contrived term, I do not imply that the crop circles necessarily are linguistic, i.e., that they are characters of any known or unknown language. They may be, but I think it facile at this early stage to begin with a premise that what we are seeing is, *per se*, a language.

In any case, I hypothesize that we are dealing with some kind of semiotic representation, and that we need to define, initially, the general system of representation being employed. It is easy to proceed to a conclusion that the crop circles could be messages made by an extra-terrestrial culture. Such speculation, whether awesome or re-assuring, provides no fixed basis for ascertaining the cause and meaning of the crop circles' communication -- if communication it is. For my part, I am reluctant even to advance the hypotheses that the crop circles may be studied effectively as if they are semiotic (initially without respect to origin or cause) but one must start somewhere with this most unusual phenomenon's explanation. I offer that one gets at cause more certainly if one first solves the comparatively easier problem of meaning.

Albeit with skepticism, I am prepared for a space to continue with this line of inquiry, proposing a framework of investigation. If the crop circles are semiotic "cereographs," then they should belong to some system of signification, and such a system may be part of another system. Semiotics is concerned with the uses, purposes

and the interplays of signifiers, signification and signified objects or object-ideas. Such structures and functions invariably form a system. A system of signs assembles sign elements that are organically related in order to serve communication purposes. Signs are components of one kind of communication called language. Unlike signs, symbols can be used independently, not necessarily as components of any particular, first-order system.

Eco (1976), the now well-known semiotician-novelist, discusses a broad comprehension of semiotics' subjects which include not just general kinds of languages and communications but also systems of objects, plot structures and cultural codes.<sup>1</sup> That is, if we should ascribe semiotic qualities to the crop circles, the possibilities are, to be trite, many and varied.

In setting up tests of the cereographic hypothesis, we legitimately may make certain assumptions, later to reinforce or eliminate them according to the falsity test of all science, *viz.*, that if any assumption (postulate) is false, an adjoining hypothesis can not be correct. One assumption might be that the crop circles are mnemonic objects to be manipulated in a semiotic system of objects such as the quipu writing of Peruvian Incas or as mussels are used by the Yoruba of West Africa. Dealing with an abundance of such uncertainty as thus far attends explanation of the crop circles, it is quite as important to reckon what the articulations are not as it is to reckon what they are. (Actually, it is more efficient first to reckon what they are not.)

The natural human tendency to infer particulars from generalities carries with it a strong assumption that the crop circles are some kind of logographic signs, thereby also assuming, by extension, a correspondence among signifiers, the signified and the interpreters, i.e., a complete language system, though one of an unknown number of logographs. Even though I resist the notion that the crop circles necessarily are language *per se*, I am willing to hang on to this assumption, realizing in advance that it may turn out to be disproven.

A British colleague of mine, Brigadier John Hemsley of Compton Martin, Somerset, instantaneously used the word "hieroglyphic" to connote his impression of the crop circles, i.e., individual signs readable as pictographs, as symbols for pictographs, even as symbols for sounds. This makes sense to me, though we have no basis of which I am yet aware to reckon on any kind of phonetization as being implicit in an interpretation of the crop circles. If we approach the

explanation of crop circles as we would approach interpreting a system of cryptic hieroglyphs, we see at once the larger issues of treating the articulations as comprising a system. In that case, though, we do not yet know if any parts of the system are not apparent or, conversely, if we have now collected all unique components or elements of the system. In any deciphering, it is critically important to collect the largest possible sample.

I submit only that the crop circles are communication using discrete symbology or signification, and that they are understandable by the principles of semiotics. I am not even asserting that such communication is necessarily intended to give a message, or messages, to those not inhabiting or visiting the locations of the crop circles. By communication I understand merely the transmission or exchange of meaning between or among "conversants," using a common system of signs or symbols which may be understood semiotically and that such understanding may be doctrinal or gnostic -- or both. Richard (1928) broad definition of communication is that it occurs when a mind acts upon an environment so that another mind has a reflexive experience like that of the mind of the first instance caused, in part, by that experience.<sup>2</sup> This definition includes both my perception and my hypothesis, even if I can not yet describe, in the case of the crop circles, both minds as in Richard's formulation.

It is the strong sense I have of communicating signs or symbols when I view photographs of crop circles that motivates me to want to analyze the crop circles in terms of meaning-laden, signifying communication. Such an analysis will be advanced by considering typical properties of study disciplines of communications of all kinds, e.g., redundancy, noise, information content, message value, coding, mathematical modeling and, interestingly, cryptography. I have to consider not only that the cereographs may not be communicating to any current viewers, but also that such communication may be hidden from intended recipients by some method of encryption. A most secure cryptographic system would be one which depends on anonymity rather than on randomness of key generation for security; that is, one which does not suggest that it is cryptographic in the first place. I would approach the solution of any cryptographic system on the basis of systematic alterations of sign values and of relative sign positions. As to information content and possible message value of cereographs, I do not yet know enough about the system to be able to distinguish between two in the system, but I would suspect that message value is high in proportion to information or data content, perhaps so high, indeed, that there is little or no data as such in the articulations. We may be dealing with the pure message value found in symbologies. This would be unfortunate because correct interpretation will be much more difficult if this is the case.

Cryptography apart, I come back to the issue



of studying the crop circles as a communication system. How do the positions of the circles interrelate? If they are to be read in some order, what reference determines that order? What can we adduce statistically concerning recurrences or repetitions of the "characters;" of their appearances according to time, season or astral references? I admit to holding strong convictions about the universality of general systems as based on observations of homology and isomorphisms; therefore, I suspect that our notions of order and structure will not be disturbed by the form and function of any system of which the crop circles may be a part. This prompts me to ask if we can yet say anything of interest about the linearity or the non-linearity of the crop circles? I continue to hue to the notion that all assumptions we might make must be subjected to rigorous falsification tests prior to accepting assumptions which otherwise can not be invalidated.

The problem of finding out what meaning the crop circles might have if they are semiotic is extremely nettlesome when we do not yet know the semiotic system that might be represented by these very articulated forms. In the 1960's Lilly, Bateson and others faced such a problem when trying to understand cetacean communications, e.g., of dolphins as pre-verbal mammals. In that case, the mammals did not know homo sapien communications, and we did not know theirs, yet each were affected that meaningful communications were occurring. Bateson (1966,1972) says that the point of the investigation was not to discover a cetacean language, nor to teach a human language to dolphins, but was to expand on theory by studying a system, simple or complex, "almost certainly of a totally unfamiliar kind."<sup>3</sup> In such an investigation one looks at communication as aggregated behavioral data meaningful to members of a specie or of a larger social order.

When one thinks about communication in general, it will be appreciated that a large share of communicating time and sign usage are taken up with establishing and maintaining relationships of many kinds; that communications articulate patterns and contingencies of relationships. Cetacean communication was found to be pre-occupied with the patterns of the creatures' relationships -- with what Bateson termed "function of the message."<sup>4</sup> Functionally, languages are digital, and communication signs are systematically manipulated according to algorithmic rules.

Where interpretation of any kind is seen to be a potential, all phenomena are coded to allow both for interpolation and for extrapolation. Communication necessarily involves coding natural phenomena, message phenomena and sign phenomena. It is precisely this coding which allows that pattern recognition should play a decisive and fundamental role in systematic relationships as reflected and interpreted. Coding necessitates iconic learning, and I would not be surprised to one day learn that crop circles are found to be coded icons.

Why do I become suddenly so bold? I hazard this speculation intuitively because the crop circles look like icons to me -- like symbols as much or more than like signs. Also, I suspect that the "characters" we have seen are not all those that comprise the total system. Eventually, we may be able to infer elements of the system that are not used -- or are not yet collected. Here, I readily apply Lilly's (1967,1968) concept that if we are to sort out the present mystery of the crop circles we must interact heuristically and existentially with the system of the signs -- if signs they are -- being sensitive to fundamental goal-distance computations inherent in all living and non-living systems.<sup>5</sup>

Further casting about for a beginning as to the meaning of crop circles, I think that if they are intended to be understood by their present viewers, some of the cereographs could be just addressing or hailing signals; others might be more abstract signs or symbols. This is why it seems important to first investigate the overall system of these articulations. (Yielding to pure speculation, I accept the notion that an ET would not necessarily ring us up on the telephone, but, in any case, probably would begin with some form of "hello.")

One sees how easy come resummptions masquerading as assumptions. Hall (1959) reminds us that in the study of any language "one can safely assume nothing."<sup>6</sup> Still, language communications contain signs, symbols, syntax, patterns -- and messages. Even apart from language, dimensions of time and space both confine and optimize communications. Hall lists ten Primary Message Systems (PMS) that are rooted in any cultural behavior: interaction, association, subsistence, bisexuality, territoriality, temporality, learning, play, defense and exploitation. Almost all of these PMS have to do with establishing and maintaining relationships. Hall's point is that culture itself is communication. In this sense, if crop circles are communication, they may be signs or symbols about some kind of relationships that are part of a culture.

I have come to the end of a problematic discourse in an area of intrigue where so little is yet known. Realizing that others probably have considered already my hypothesis and approach, I may expect that something here still might initialize a productive train of thought leading eventually to an interpretation of meaning of the crop circles and subsequently of their causes. Something that Lilly wrote about his dolphin research thirty years ago strikes me as a particularly worthwhile experiment for testing the hypothesis of this paper. It is this:

"...if one is to be convincing in regard to showing...a wish to communicate, one mimics the other end's signals even though (temporarily) the signals make no sense, and one insists on having one's own signals mimicked on the same basis."<sup>8</sup>

Blundell and Boar (1983) report a case of responsive communication mimicry that occurred in New Hampshire (U.S.) on July 27, 1967 when

two men exchanged various combinations of flashing light signals with a UFO.<sup>9</sup>

Within the framework of communication by or with extra-terrestrial intelligence (CETI), the meanings of the cereographs almost certainly are not foreign nor bizarre. Recent work in CETI over the last two decades emphasizes simply propositions of probably universality such as binary codes, prime numbers, diagrams of interstellar locations and the like -- signs not easily misunderstood. Cross-culturally and trans-culturally, simplicity, redundancy and repetition are the fundamental principles of effective communications.

"Beings" from elsewhere in the Milky Way galaxy (origins from other galaxies somehow defy all space-time limitations of the physical universe) are likely to be somewhat to rather like ourselves. After all, if they and their semiotic representations are too odd, the chances of recognition in either direction are sharply reduced. Reasonably, ETI's search strategies and techniques, templates and signals, means and methods of investigation and inquiry, should be homologous with their own systematic structures and functions, therefore with those of the universe. That one even supposes or intuitively that crop circles could be CETI suggests that semiotically the cereographs will act like filters, admitting and being a barrier to various intercourses as between ETI and earth dwellers. Accordingly, decryption, possibly to be accomplished via an intermediate system, ought to be most effective as based on the most general propositions and isomorphisms rather than with the expectation of encountering bizarre and unfamiliar signs.

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1. Eco, Umberto, A Theory of Semiotics (Bloomington: Indiana University Press, 1976) pp. 9-14.
2. Gordon, George N., "Communications," Encyclopedia Britannica, vol. 16 (Chicago, 1985) p. 685.
3. Bateson, Gregory, Steps to an Ecology of Mind (New York: Ballantine Books, 1972) p. 365.
4. Ibid., p. 372.
5. Lilly, John C., Programming and Metaprogramming in the Human Biocomputer (New York: Bantam Books, 1967,1968) pp. 96-105.
6. Hall, Edward T., The Silent Language (Greenwich, CT: Fawcett Publications, 1959) pp. 96-98.
7. Ibid., pp. 42-62.
8. op. cit., Lilly, p. 104.
9. Blundell, Nigel and Boar, Peter, The World's Greatest UFO Mysteries (New York: Berkley Books, 1983) pp. 13-14.

#### ETHER CORRECTION!

The formula in the May-June Bulletin Board, page 21, should have the square root symbol around it. This is the correct equation:

$$df = \frac{-fvdv}{c^2 \sqrt{1-v^2/c^2}}$$

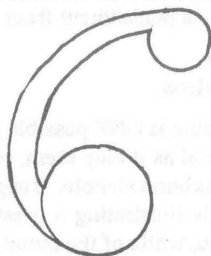




presented. It is noted that various persons researching these phenomena have described colors seen, and 'electro-magnetic' sounds. Metaphysically, the union of light and sound is reality.

The Wiltshire crop 'scroll', is reported in detail in William Corliss' *Science Frontiers* No. 73, page 3. Credit is given to R. Flaherty, and G.T. Meaden's reporting in the *Journal of Meteorology, U.K.* The following table analysis, and generated vocabulary in the Gaelic speech will demonstrate the pictograph of a lesser Sun spinning off the parent Sun.

## WILTSHIRE CROP 'SCROLL'



## ANALYSIS OF FORM & MEASURE

### Given and Derived Measures:

Small circle: Aver. Diameter: 27.477 ft.

Circumference: 86.318 ft.

Large circle: Aver. Diameter: 50.016 ft.

Circumference: 157.125 ft.

Outer arc: Length 41.63 ft.

Inner arc: Length 24.187 ft.

FOUND	DIVISOR	RESONANCE	HARMONIC	CANON REFERENCE	ERROR
86.318'	60 (R)	1.4386'	5/4	Philetarian foot	.09%
	40 (O)	2.1580'	5/4	Royal cubit	.37%
	8 (I)	10.7890'	9/4	Chartres Ell	.26%
	100 (A)	.8632'	1	1/2 Royal cubit	.37%
157.13'	60 (R)	2.6188'	8/3	Egyptian foot	.22%
	40 (O)	3.9283'	4	Egyptian foot	.22%
	100 (A)	1.5716'	4/3	Black foot	.25%
41.63'	20 (M)	2.0815'	1	Sacred cubit	.09%
	70 (S)	.5947'	5	Valencia Vara	.37%
24.187'	20 (M)	1.2094'	1	1/2 Roman Pace	.09%
	70 (S)	.3455'	10/3	Philetarian foot	.22%

## HARMONIC CORRESPONDENCES:

NB: The note DÓ on the scale is UD in the old nomenclature.

(Factor): 5/4 5/4 10 9/4 1 8/3 4 4/3  
 (Gaelic): MÍ MÍ MÍ 'RE UD FÁ UD FÁ  
 (English): Concerning evil; an evil alternate that under yonder it is,

1 5 1 10/3  
 UD MÍ UD LÁ  
 that evil a beginning, a current time:

The substitution of DO for UD is more expressive of the evil. DO in the Gaelic connotes burning or scorching, and is derived of the verb DOIGH. Applying licence, the Canon references by number value yield interesting correspondences:

### Philetarian foot:

1.152  
 L AEB

LAE B'=BA  
 Of current time it is.

### Royal Cubit: 1/2 Royal Cubit:

1.72 .86  
 A SB IR

AS=ÓS B'=BA IR=FIÓR  
 Above it is. An image

### Chartres Ell:

2.4212  
 M OBAB

MÓ BÁB  
 A great baby  
 (A younger Sun)

### Sacred cubit:

2.083  
 M IN

MIN=MION  
 Mean, broken fine

### Black foot:

1.1816  
 L ATAR

LAT ÁR AM IG=EANG  
 Heat a slaughter Concerning a progeny

### 1/2 Roman Pace:

1.2083  
 A M IG

### Egyptian foot:

.98424  
 CIOMO  
 CI=CIOCH Ó MÓ=MÓR  
 A protuberance from the Sun

## Valencia Vara:

2.96265

M URBFE

M'=MÓ ÚR B'=BA FÉ  
 Of me a slaughter it is before/under

## 2 Egyptian Feet:

1.9685

L URTE

LU=LE R'=RÓ TE

With great heat

The foregoing is one selection of a significant number or permutations available. The examples used are in accord with the crop circle pattern under study, which pictorially suggests a younger Sun issuing from a larger Sun.

## LETTERS PROVED BY RESONANCE & HARMONY

Geometric form:   
 Alphabet letters: R,O,I,A S,M R,O,I,A S,M

### Several permutations; left to right:

AMAS / A SÓ S=SIN  
 An attack / One younger here

AMA M' / AM AM OM  
 A yoke of me / A time / concerning raw flesh

R'=RÓ SÓ S=SIN  
 An abundance younger here

### Permutations; right to left:

MÍ MÓ SÓ MÓ=MÓR  
 An evil great / A younger Sun

SÁM A  
 Rest/repose out of

MÁ ÍR=FIÓR  
 Concerning an image

SÍ 'SA=IN SAN  
 It is in THAT.

The implication of color is found in the harmonic factors given in the table of data. These are as follows:

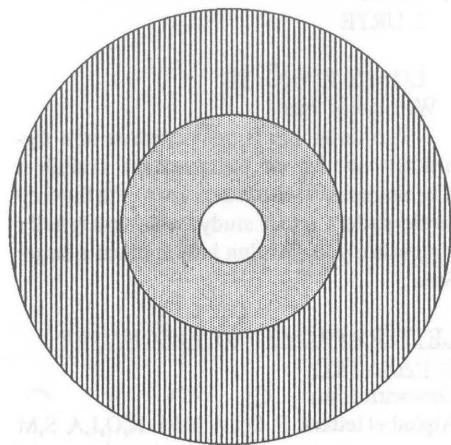
Factor: 5/4 5/4 10 9/4 1  
 Note: MÍ MÍ MÍ RE DO/UD  
 Color: Yellow Yellow Yellow Orange Red  
 8/3 4 4/3 1 5 1 10/3  
 FA DO/UD FA DO/UD MÍ DO/UD LA  
 Green Red Green Red Yellow Red Indigo

No opinion or conclusion is given at this time regarding the colors found.

The Xenia, Ohio concentric circles which follow were reported by a hired hand working on the Gene Eck farm in that community. It was reported on by Williams in the National Illinois Agri-News, Nov.9,1990. The present source is from Wm. Corliss' Science Frontiers, No.73, page 3.

The Xenia formation is a central circle of standing grain. The next area, circled, is of burnt stubble, the outer area is flattened grain, with no directional information.

#### XENIA, OHIO, USA



Outer circle: Diameter 80 ft.  
 Mid circle: " 40 ft.  
 Inner circle: " 14 ft.  
 Outer circumference: 251.32 ft.  
 Mid circumference: 125.66 ft.  
 Center circumference: 43.98 ft.  
 $251.32 \times 1/12 \times 1/10 = 2.0943$  ft.  
 $125.66 \times 1/12 \times 1/10 = 1.0472$  ft.  
 $43.98 \times 1/12 \times 3/4 = 2.7488$  ft.  
 2.0943'~2.083' Sacred cubit E .53%  
 1.0472'~1.0415' 1/2 Sac. cub. E .56%  
 2.7488'~2.75' Celtic yard E .04%

Factors: 1/12 1/10 1/12 1/10 1/12 3/4  
 Musical note: (Gaelic) SOL MÍ SOL MÍ SOL FÁ  
 English translation: The Sun evil, the Sun concerning, the Sun below, or it is.

FOUND	DIVISOR	RESONANCE	HARMONIC	CANON	REFERENCE	ERROR
251.32'	60 (R)	4.1887'	1	4.166	Sacred Yard	.54%
	40 (O)	6.283'	3-1/3	1.8946	Pyk Belady	.51%
	8 (I)	31.415'	16	1.9586	2 Egypt. Ft.	.26%
125.66'	60 (R)	2.094'	1	2.083'	Sacred Cub.	.53%
	40 (O)	3.1415'	3	1.0415	1/2 Sac. Cub.	.54%
	8 (I)	15.708'	16	.98424	Egypt. Ft.	.27%
43.98'	8 (I)	5.498'	1	5.5	Raman	.04%
	100 (A)	.4398'	2-1/4	.98424	Egypt. Ft.	.54%
	Cosmic					

NB: DŌ in old musical notation was ŪD.

Harmonic: 1 3-1/3 16 1 3 16 1 2-1/4  
 Note: ŪD RĒ ŪD ŪD SOL ŪD ŪD RĒ

The sequence of musical notes indicates a thought form or statement.

ŪD -- that, yonder, a beginning or a front is implied

RĒ -- as 'RE connotes a second or an alternative.

RĒ -- as preposition, before

RĒ -- noun, a distinguished person; also a Moon name; also connotes a whirl or loop.

SOL -- a Sun name; The Sun.

Putting the possibilities together, one can derive: 'A beginning before that yonder Sun, that yonder a loop or whirl'. Should the purist insist on the note DŌ, DŌ in Gaelic means burning or scorching. One then has, 'A scorching loop, a burning, scorching Sun, a burning scorching second.'

To pursue possibility, each Canon unit found has by correspondence a letter for each number in the unit. One set of correspondences is given herein:

4166 18946 19686 2083 10415 98424 55 98424  
 OLR F ATUOR ACFIR M IN L OLE CTOBD PE UIOBO

The findings are then projected by syllables/words into the Gaelic and then translated into English.

ŌL R'=RŌ F'=FA A TŪ ŌR  
 Immersion great it is. Out of It is a voice

AC FIR MÍ 'N=IN LŌ LE C'=CA  
 alas of man evil in, of life with, whence

TOB D'=DO PĒ UÍ  
 a torch from, a punishment from

Ō BŌ  
 a younger wanderer.

The foregoing is ONE possible permutation. As illogical as it may seem, recall that the center ring is burnt stubble. It appears that the crop plan is illustrating a greater truth. The implication, while of the mundane, conveys a metaphysical truth.

Juxtaposing other letters, one can extend the context. The material derived conforms to the Gaelic syntax and rules of speech. Pictorially, a circle within a circle, within a circle suggests a sun within the Sun within the Sun. From Metaphysics, the Sun is two, Father Mother, yet produces a sun/son without benefit of the biologic union, truly a virginal birth.

The arithmetic resonances produced the following letters. Each circle produces the letter I. The outer ones also produce the letter R and O. The inner circle is an A. There are many permutations available for the letter found. The flow may be read from center outwardly, or from the outer to the innermost circle.

R'=RŌ R'=RŌ Í  
 Great abundance It.

R'=RŌ 'RA='RE  
 Great a second or alternate

OR A  
 A fringe out of

Ō 'RA='RE  
 A younger second

RŌ A RŌ Í  
 A great one, Abundance it

#### Reversing the above:

IR=FĪOR R'=RŌ  
 An image great

AR R'=RŌ  
 Husbandry great

AR R'=RŌ  
 Slaughter great

A RŌ  
 One great

AOR ÍOR  
 A curse, A burst of rage

R'=RŌ RÍ  
 A great ruler



My last exposition for this work is the Longmeadow Estates configuration near Winchester, England. It is presented in detailed drawing in the Mufon Journal, page 4; and in the Cereologist; No. 1, page 6. It will not be illustrated herein.

The configuration is a central circle surrounded by pairs of arcs at increasing radii from the center. These are contained by a full circle at the outer limit. It is noted that the arcs are not of equal length at their respective radii. Directionally, the surveyor, Richard Andrews indicates compass headings of 20, 105, 203, and 290 degrees.

20 degrees falls on BEITH; 105 on FEARN; 203 on MUIN, and 290 falls between RUIS-SAIL. On a positive note, BEITH pertains to existence; FEARN divided, or man in; MUIN is affection; RUIS-SAIL meaning of Knowledge a guard. Negatively, BEITH divided BE plus ITH conveys; "it is consuming". FEARN, as FE plus AR plus 'N indicates, "a source slaughter in". MUIN may mean "above". RUIS-SAIL interprets as "of redness that of the Sun".

#### LONGMEADOW ESTATES -- ANALYSIS OF MEASURES:

	DIVISOR	RESONANCE	HARMONIC	CANON REFERENCE	ERROR
Outer Circle	60 (R)	5.0073'	1	Double Sacred rod	.15%
	40 (O)	7.511'	1	Phoenician fathom	.15%
C=300.44ft.	8 (I)	37.555'	10	Phoenician yard	.15%
Outer Arc, top	20 (M)	2.2966'	1	Mir cubit	.22%
	70 (S)	.65614'	2/3	Egyptian foot	NIL
L=45.93'					
Outer Arc, bottom	20 (M)	2.559'	1	Austrian Ell	.23%
	70 (S)	.7311'	5	Triple Remen	.17%
L=51.18'					
Outer Arcs, sum	10 (L)	.9711'	5	Dbl. Chartres Ell	.27%
	90 (U)	1.079'	1	Babylon Foot	.40%
L=97.11'					
Inner Arc, left	20 (M)	1.5749'	4/3	Black foot	NIL
	70 (S)	.4499'	1/10	Double Dutch Ell	.02%
L=31.49'					
Inner Arc, right	20 (M)	1.4765'	1	Egyptian Cubit	.01%
	70 (S)	.4218'	5/2	1/2 Palestine Cubt	.09%
L=29.53'					
Inner Arc, sum	10 (L)	6.102'	1/4	Mir foot	.14%
	90 (U)	.678'	1	1/4 Megalithic Yd.	.29%
L=61.02'					
CenterCircle	60 (R)	2.0527'	4/5	Austrian Ell	.03%
C=123.16'	40 (O)	3.0791'	3/5	Dbl. Austrian Ell	.04%
	8 (I)	15.395'	1/6	Austrian Ell	.03%
	100 (A)	1.2316'	5/4	Egyptian Foot	.11%

A detail of the harmonic factors seems unnecessary. The color sequence is simply: Red, red, yellow, red, blue, red, yellow, yellow, red, green, yellow, red, yellow, red, red, yellow, indigo, blue, and yellow.

The outer circle proves the letters R, O, and I. The outer arc, top, may be M or S; and the bottom arc also as M or S. Combined, they may be L or U. The inner arcs likewise produce M or S, and together L or U. The inner circle is alphabetically R, O, I, or A. Several permutations will be illustrated, reading from the outer to inner letters, and a reversal of this order. As harmony prevails, the directional order of interpretation may alter the wording but not the context.

R'=RÓ S=SIN M'=MO M'=MO 'SÍ  
Abundance here of me my It is.

ÓS S=SIN M'=MO 'SA  
Above here my Issa

ÍM S=SIN M'=MO SÓ  
Concerning that of me younger

R'=RÓ 'UL=DUL A  
Great death out of

Í LUÍ  
It a prostration  
ÓL UA  
Immersion from

#### Reversed Order of Letters:

Í 'S M'=MO M'=MO S=A FIOS R'=RÓ  
It is of me my prophecy great

AS M'=MO S=SIN S=SIN O  
A sign of me here that younger

ÓS M'=MO S=SIN MÍ  
Above of me that evil

ÁL ŪR  
The Sun slaughter

ÍUL I=Eadon  
Knowledge indeed

A'=AN 'UL=DUL Ó  
The condition (or death) from

It is noted that there are many more possible interpretations. A further exploration seems un-necessary. Issa connotes the Sun, and in the Tibetan lore was their name for the Nazarean who died on the cross.

The collective information from this paper reveals that there is more to Canonical measures than finger joints, barley corns and the like. It is concluded from this study that the measures reflect Solar harmonics, as well as being descriptive of the Solar condition. The crop circles reflect an increasing awareness of the end of the present cycle, 2001. As messages, one can reflect on the adage, 'As above, so below'. As it appears to this writer, the phenomena are formed of energies generated both above and below. They may very well originate from the lack of balance in man's use of the Earth. Further ruminations would be purely speculative. Being too close to the work, my interpretations could become un-scientific, and modify the evident facts scientifically proved.

Of interest is the construction of Stonehenge. Accepted are the various writings and scholarship. What appears to have been over-looked is the geometric form: Circles, arcs and line: Sarcen and Blue stone circles, Trilithon and Blue stone arcs, and the altar stone. By arithmetic resonance and musical harmonics one can prove letters of the alphabet.

Sarcen circle: letters R, O, I, A

Bluestone circle: letters R, O, I

Trilithon horseshoe: letters M, S

Bluestone horseshoe: letters M, S

Altar stone: letter S

Bluestone horseshoe & altar: letter A

From this assemblage, words are generated: IÓSA -- Gaelic for Jesus; and connoting continued on next page

**Word On...** continued from previous page  
 'indeed a younger in that; or indeed a younger Issa'. Also, 'It a younger That out of'. ARMA indicates 'slaughter out of'. ROS M' S, or a 'cemetary of me here'. ORMA for 'a fringe concerning'. Is it possible that the greater intent of Stonehenge was to calendrically prophesy repetitive Solar activity and storm? This writer believes it to be so. The Heel (HELE) stone connotes 'your It with'. Is it a co-incidence that the angle at which it tilts, 27 degrees, is the sum of the letters in HELE?

Other verifications are too numerous to mention. Suffice that an archaeologist, Daniel Haggert, finds Serpent mounds in the USA to be oriented 320 degrees. 320 degrees is the angular value of T, or TEITNE. TEITNE reduced yields 'heat consuming the person'. The serpents are found to be consuming an egg. In the Gaelic, 'nathair ite uig'. In English, through the reduced syllables, one has; 'the swelling upon it consuming a younger progeny'. In New Hampshire Ray Coulombe photographed a rock sculpting of a large fish consuming a smaller fish, which is descriptive of itself. In the Gaelic it is, 'IAC MHOR ITE IAC BHEAG'. Reducing to syllables, 'It alas

of the Sun, indeed heat of it is death'. The sculpting has inscribed lettering which supports and amplifies the pictorial warning.

So with the content a partial look at a larger scenario, this work is ended. Of over 15 crop circles redacted, none vary from the central theme of Cosmic/Solar intervention in the affairs of man. By all outward appearances it is a cyclic happening of worldwide devastation. Is it possible that the younger Sun is the sun of binary hypothesis put forward by some astronomers? At this point, we have ten years left to discover whether the findings are fact or fiction.

In closing, it seemed appropriate to borrow from the patois, the tale 'Jack be nimble, Jack be quick; Jack jump over the candlestick.' In Gaelizing this ditty, one has a Solar storm story remitted by societal amnesia to a children's rhyme. It reads, 'Of death it is a penetrating force with, of death it is of the Sun progeny; of death upon them of it is a great heat condition from a law yonder'.

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#### GLOBAL GRID... continued from page 15

constant anywhere around the globe, as all north to south lines retain their length. However, the east to west spaces between the grid-stands, will be squeezed together, as the peripheries, or parallels, get shorter toward the poles, consequently narrowing the space between the stands. Should the 2.52 m. of the east to west lines shorten less than a half wavelength, such points will be excluded and the new, double-long distance will create stronger refraction, even become a four or more-fold spectrum, like in the north to south lineage! In such case, the energy emitting from the earth still exists, but has no significant refraction.

It is known that bodies of water, like lakes and oceans, disperse, neutralize, earth emanation, that is why people feel good on water. It would be interesting to know, what influences, if any, each pole on the planet's environment has, as the Arctic Ocean neutralizes H-waves emanation, contrary to the Antarctic, as its rocky strata, and the meeting points of all North to South grid-lines, may augment his unfavourable H-waves?

In 1950, scientists Born & Hertes, proved that microwaves of one centimeter wavelength, resonating in a pyramid-like funnel, can accelerate rotation of waterdipol molecules, leading to dehydration even of micro cavities, which is known as electromagnetic

dehydration, a process that also takes place in small cardboard pyramids, as electromagnetic dehydration sharpens razor edges!

We all know about the experiments with



Pyramid models, may they be open or covered and most of the claims are true. However, all are nothing more than only hollow resonators like a satellite dish, responding to many short waves, whereas the Pyramid of Giza is not, as it almost consists of solid rock and as such is a part of the strata. Only one report in all the books comes close to its secret. A British inventor, a Sir. W. Siemans who stood on top of the Great Pyramid and heard ringing sounds, as he raised a hand, and when drinking wine

from a bottle, a frail shock went through his body. To experience more of this phenomenon, he wrapped wet newspaper around the bottle, converting it into a crude "Leyden Jar", and lifted it up. Now the accumulated energy gave off sparks, and when his native guide accidentally touched him, he received cattle-prodder like shock and ran away.

Prior it was said, the Great Pyramid base has 75 grid-stands east to west and 9 stands north to south. As each stand is a part of the whole, it stands to reason, the Pyramid rests on 7,125 pathogenous crossings. In addition, its solid structure makes it a part of the strata it stands on and its upside down funnel shape, causes multiple refraction which in turn creates spectrums of many orders, then in a laser beam manner, dash out through the apex, as Sir Siemans experienced it.

However, the Pharaohs had much higher aims, than sharpening knives and tools, dehydration is good for storage, as it "kills" bacteria, even mummifies small animals have been found within the Royal Chamber. The good credits of the Cheop Pyramid lie in a completely different field than presumed.

Former books about it have to be rewritten as they only deal with half of its use, but that is another story.

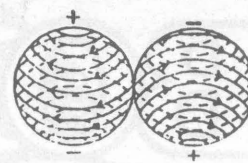


# IF OUTER SPACE IS EMPTY THEN SO ARE YOU

by Larry Spring

225 Redwood Ave., Ft. Bragg CA 95437

LARRY SPRING'S ELECTROMAGNETIC SPHERES



Using approximate figures of sizes for protons, electrons, atoms, molecules, and photons or light as determined by physicists using various methods, we find that a proton is a very heavy tiny bit of mass occupying about 1/500,000,000 the space in an atom. Said another way it would take about five hundred million protons to fill the space occupied by an atom. Now let's say silver has about 100 protons and neutrons in its nucleus which would occupy about 1/5,000,000 the space in a silver atom. Using simplified figures, we could figure an equal space in the atom is occupied by electrons, so all the true particles in a silver atom would occupy 1/2,500,000 of the interior of the atom, or .00025%, which is a negligible volume and yet the protons and neutrons contain all the true weight. Electrons are only .05% of the weight so we can ignore them for the moment.

If each atom is almost empty of true mass then your whole body is almost empty and the total protons occupying a space smaller than a BB shot would contain your total weight. What keeps your atoms from collapsing? It is the repulsion of like charged negative electrons that repel each other. The like charged positive protons in the nucleus would also separate if they were not so heavy, which is a measure of gravity toward each other and toward Earth. The nucleus is also weighted down by neutrons with neutral charge so they are not repelled or attracted by charged protons or electrons. A proton or neutron is approximately 1840 times as heavy as an electron and, if our silver atom has 100 protons and neutrons, the nucleus would weight 184,000 times as much as one electron. That is why magnetic energy passing through an atom only drives electrons. Heat being one of the electromagnetic energies must therefore drive only electrons into alternating movement better described as a vibration and does not drive the whole atom as currently imagined. Furthermore, magnetic fields drive electrons in one direction and protons the opposite way, 90 degrees to their own direction of travel.

When we introduce heat (magnetic energy) to the atom the electron activity increases and the whole atom expands. The existing space is electric fields which remain with the electrons and protons plus the added

magnetic energy we call heat. This heat is always moving driving electron which create opposing magnetic fields which are themselves radiated. Mass gets hotter when it receives more radiated heat than it radiates and colder when it radiates more than it receives.

It appears to me that heat being a frequency range in the electromagnetic spectrum called infrared, would try to separate the negative electron from the positive nucleus rather than drive the whole atom into increased movement. Heat expansion would increase the space in the atom rather than the space between atoms. The photoelectric effect shows dense energy ultraviolet units of magnetic energy driving electrons right off the surface of bare bright metal. From this point of Larry Spring logic, the original space in the atom would be the electrical field repulsion of electron to electron and heat would simply increase electron activity which would demand even more space. The more heat passing through the more atomic expansion. If expansion was restrained in a confined area, added heat would result in a faster electron drive in a shorter distance, which would be a higher frequency with increased pressure on the container.

All this empty space in your body like outer space is full of moving magnetic energy. It only appears to be empty as energy does not require a space of its own. Two molecules or two automobiles cannot be in the same space at the same time without causing a wreck. Energy can occupy the same space at the same time.

Atoms and molecules, with their electrons driven rapidly back and forth by passing magnetic energy, do insist on a space of their own. Visible light is given off by atoms whose electrons are being driven back and forth about 600 trillion times a second. The electrons must be confined to their own atom by repulsion of the electrons in neighboring atoms. If the confining pressure is reduced atoms will expand and become cooler due to more room and path length of the electrons which results in a lower frequency. Compressing the atom results in less distance in which the electrons can travel making for a higher frequency of electron travel and a hotter atom.

Outer space therefore only appears empty.

It is really full of gravitational fields surrounding the mass including sun, planets and moon.

Outer space is also full of spherical units of magnetic energy traveling at the speed of light. When you absorb this energy in the visible range of the spectrum through your eyes you have vision. When you absorb and reradiate this energy in a less energetic form of infrared we call it heat.

Your body is composed of mass (protons and electrons), so are all other heavenly bodies like sun, Earth and moon. They all have force fields surrounding and only associated with protons and electrons and that is the electrical field of attraction and repulsion which gives you size larger than a 150 pound tiny BB air rifle pellet regardless of the amount of heat expansion passing through your body.

So you see space is not empty and neither are you. Space just seems empty and you knew all along that you were not empty. You are full of water. It is inside the water molecules, carbon and mineral atoms where all that empty space is full of electric and magnetic energy fields held together by gravity.

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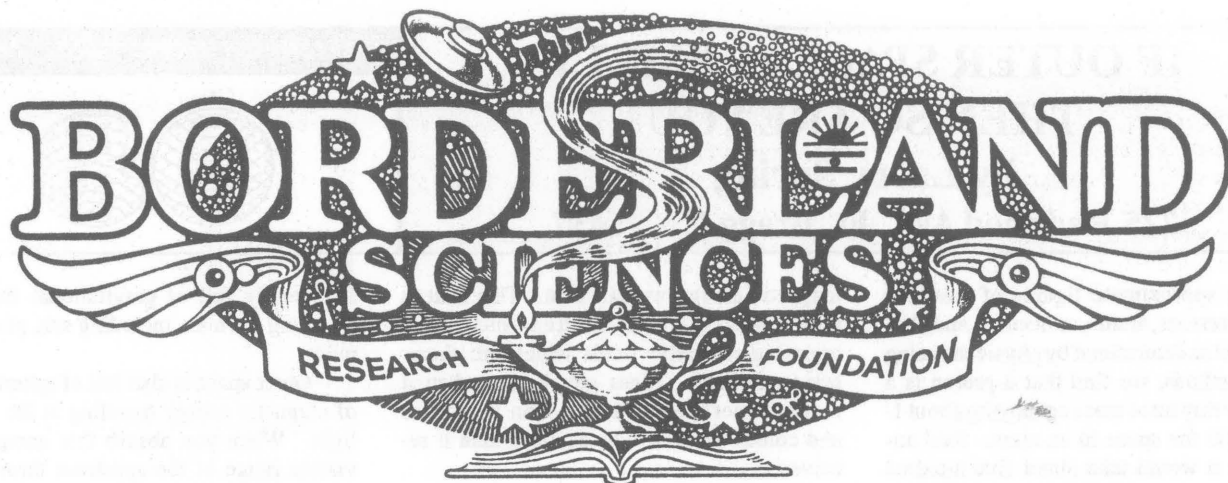
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### LETTERS

#### OPERATION CLINCHER

I thought I would add a few other "real world" parameters to TJC's Operation Clincher data. The map in the 1991 May-June Journal on page 7 shows a string of vortices on the west coast of the U.S. Using astroclimatological projection techniques for the period from May 6 to May 10, 1990 it can be seen that the 135° aspects (which generate low pressure) run through the areas in which the lows have emerged. As the moon made its transit it generated these disturbing aspects (double lines) with its angular relationships to Uranus, Neptune, Saturn and its own node. Significantly, for May 1990 two of these aspect lines cross geovortex points on the world grid. One line which starts the sequence describes a 135° angle between the moon and Uranus. This line connects the geovortex in the Bering Sea with the geovortex in the Sonoran Desert. The resulting line can be found at the center of the low in S. California on the surface analysis map in the article by TJC. As the moon continued its counter clockwise transit three other 135° aspects were generated. Each one comes extremely close to the centers of the lows depicted in the article. The effect of this influence moving "up" the state of California would be to enhance greatly the northward flow of the southern monsoon. The final event in this lunar transit was a 135° aspect between the moon and its own north node. This aspect projected a line which crossed the northern vortex point in B.C. This, in effect, amounts to a cosmic "stroking" of the etheric envelope in a south to north axis between two

major power vortices over a four day period. From the accompanying diagram it can clearly be seen that the string of lows are being "stroked" by both terrestrial and cosmic engineers during the time of this experiment and during the entire spring and summer.

This being the case it seems prudent to evaluate the scientific view that "only results count." In this instance the effect was beneficial. However, these events in the etheric go on in time. Great care should be exercised to make certain beyond reasonable doubt that experiments so powerfully effecting the ether would be framed by celestial concerns. The widespread use of scalar devices triggered in rhythms which are employed solely to make a scientific point has Faustian overtones. The great etheric magicians of the past always looked heavenward, first, before employing a spagyric manipulation. Without this it was considered that the mage was in danger and the magic might just get out of hand. To know, do dare, to be silent, and to wait are the four great identifying marks of the true adept. Let us hope that the magicians of the future can rise above the temptations to get results. If they don't the cost we may all have to bear may be too dear to imagine.

P.S. Is there any info available on Victor Schauburger's work with the Repulsator? I already have *Living Water*. Also, did he do any work with stone and diamagnetism? I am thoroughly enjoying your publications and the incredible forum which BSRF provides. Blessings on you and your work.  
Dennis Klocek  
6603 Lincoln Ave.  
Carmichael, CA

Thank you for the complementary data on CLINCHER. Trevor is aware of astrological influences on the etheric forces underlying the functions of the weather organism. Next issue will contain Trevor's response to your valued input. We have already received number of requests for full disclosure of the construction details -- but not one for information on how to understand what the astronomically regulated etheric process is behind the weather organism (the most essential component of this 'equipment'). Trevor recommends that the place to start is where he started with *THE ETHERIC FORMATIVE FORCE IN COSMOS, EARTH AND MAN* by D. Guenther Wachsmuth -- a rare book we are making available in photocopy form. (The book contains color charts and we are redoing them in B&W for lower cost reproduction. Those desiring a copy with color photocopies -- about \$75-- can check in with Donald Hosier, archivist at the Rudolf Steiner Research Foundation, 1753-D Appleton St., Long Beach, CA 90802, (213) 437-5438. The RSRF also has a lot of excellent information on the etheric on audio cassette. Call Don and discuss your needs. He has been of invaluable help to us at BSRF.) Equally important are the works of Wilhelm Reich, available from Natural Energy Works, Box 1395, El Cerrito CA 94530. Those interested in Astroclimatology are encouraged to contact Dennis about his *Aeolian Outlook Newsletter*.

Yes, events in the etheric go on in time. all our activities are tied in at some level. Just copying the physical equipment does not give access to the operation manual which Trevor's 20+ years of direct experience with the etheric forces. I always tell the would-be weather engineer to spend a few years looking at clouds and studying meteorology, or going



Trevor has shown his spiritual side as he bares his soul on his search for knowledge to help humanity in his book **COSMIC PULSE OF LIFE**. He applies this knowledge in order to bring forth new technologies for the betterment of humanity, not simply to make scientific points. Whether one fully agrees with Trevor's world view and his manner of operation, I think it clear that he operates with the highest intentions. He files advance reports with the National Oceanic and Atmospheric Administration (NOAA) before his operations and has written in the past on the legal aspects of weather engineering. Trevor knows, wills, dares, and is silent about exact operational detail. He is a revolutionary in the sense that he wants new knowledge to spur positive change in our societal structure. When it comes to engineering for a purpose it should go without saying that only results count. A

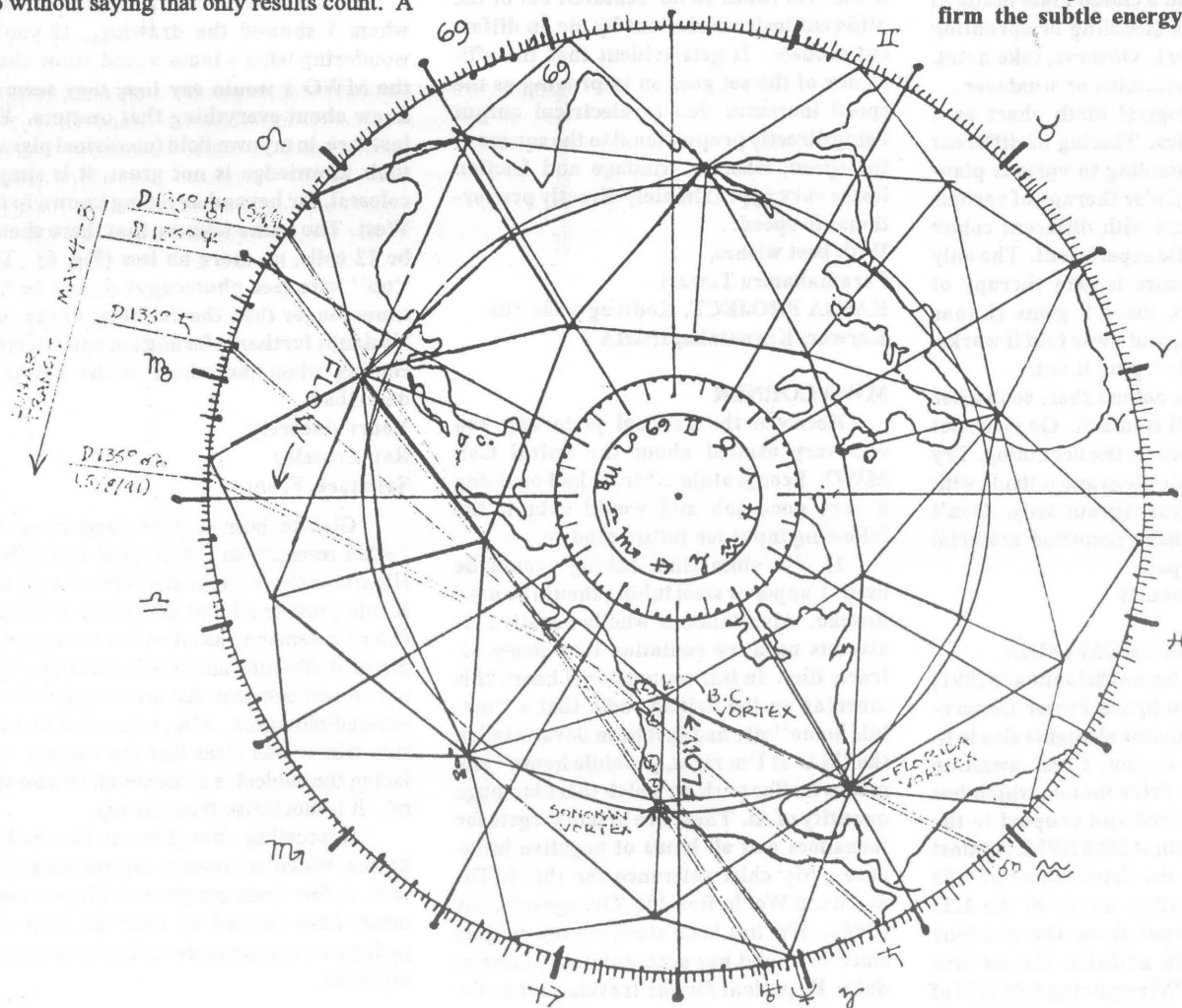
bridge built halfway allows no passage. Trevor is working with bridges into forces that control and shape the weather and it is important to question the overall impact. If one wants to bring forward this new technology, which has been developed out of both scientific and spiritual researches, they need to present the real world side for acceptance by the people who are in a position to use it.. Considering the status of the planet I feel that what Trevor is doing is of utmost importance and we present information on his work, not to get everyone to build these devices, but because Trevor is an active researcher producing concrete results in a tenuous field. As to the use of this equipment for financial compensation, Trevor has never been paid for an operation though he certainly has sought out pay to cover time and expenses -- a normal consideration in real world work. Would Red Adair engineer the extinguishing of the Kuwaiti oil fires for free? Trevor has donated his royalties from *Cosmic Pulse* to BSRF for general operations and receives no financial compensation for that book at all. His actions have described that he is motivated by higher impulses than money in making new knowledge available.

On the news (TV) this last week was a short segment on medical quackery. It was the morning news, I forget which network, but they showed a color therapy device orgone box, and..., I didn't catch it all. — The blind leadeth the blind.... It was a put-down, but we know the end of it all. — Name withheld by request.

## ANCIENT BIOCURCUITS

It may be worthwhile experimenting with bio circuits connecting the top 4 chakras, one at a time, or all at one time. This can be done with a copper coin welded or connected to a wire connecting crown/brow chakra, crown/throat chakra, crown/upper lip (why?), crown/heart chakra. Source ritualistic ornaments in India: The way the teachers touch the heads of their students with thumb on the crown and index finger on the brow, and some type of acupressure wherein 2 points are touched, pressed at the same time.

**One simple exercise one can do to confirm the subtle energy effects of certain**



# SPACE POWER GENERATOR - MOTOR (SPGM) TEST

Dt: 19-1-1991

	I	II	III	
MAGNET POWER	OFF	ON	ON	
OUTPUT POWER	OPEN	OPEN	CLOSED	
SPEED	2800	2800	2800	RPM
MAGNET POWER	0	1320	1320	WATTS
MOTOR ARMATURE POWER		4440	7585	WATTS
RISE IN MOTOR INPUT(INCREMENT)			3145	WATTS
OUTPUT CURRENT	0	0	3146.6	AMPERES
GENERATED VOLTAGE (SPG)	0	2.525	2.525	VOLTS
GENERATED VOLTAGE (SPM)	0	1.74	1.74	VOLTS
GENERATED POWER ( $I^2R$ )	0	0	$3146.6 \times 2.525$ $= 7945$	WATTS
GENERATED POWER (ELECTROMAGNETIC) FED TO SPM AND NOT CONVERTED TO MECHANICAL POWER			$3146.6 \times 1.14$ $= 3587.124$	WATTS
TOTAL GENERATED POWER			11532.2	WATTS
EFFICIENCY			$\frac{11532.2 \times 100}{3145 \times 0.82} = 447\%$	

Note: SPGM has one generator element (SPG) and two motor elements (SPM).

SPGM is driven by direct current 10 KW variable speed dc motor of 82% efficiency.

drugs such as chemo-therapy, antibiotics, etc. is to keep one in a closed glass bottle in a plant's root zone (seedling or sprouting plants will be better). Observe, take notes, repeat with some vitamins or whatever.

Use of Astrological birth chart as a witness in Radionics. Placing of different gemstones corresponding to various planets over the chart. Color therapy of various sections of the chart with different colors may be a worthwhile experiment. The only thing I know for sure is gem therapy of astrological charts, using 9 gems (Lunar Hindu Horoscope), and I was told it works. May be worthwhile trying it out.

Vitic Rods: Do not use them soon after eating or with a full stomach. Go slow, not more than 15 minutes in the beginning. Try them without crossing legs and outside with bare feet on the grass (grounded). Don't keep the magnet near recorded material such as cassette tapes.

Submitted anonymously

## ENERGY REPORT FROM INDIA

I am enclosing herewith [January 1991] latest results of the Space Power Generator, which has two motor elements also in it. As I had written to you, I was awaiting arrival of a larger drive motor, which has been recently received and coupled to the SPG. The set was run at 2800 RPM. Against an input power to the drive motor of 7.58 KW and the excitation power of the 1.32 KW electrical output from the machine was 11.53 KW. In addition the set was rotating at 2800 RPM requiring 4.44 KW of

power towards windage and friction. This is the best result so far achieved out of the different tests carried out by me on different models. It gets evident that the efficiency of the set goes on improving as the speed increases due to electrical output being directly proportional to the square of the speed, whereas windage and friction losses vary approximately directly proportional to speed.

With best wishes,  
Paramahansa Tewari  
KAIGA PROJECT, Kodibag - 581 303  
Karwar, Karnataka, INDIA

## MWO CORNER

Received the Journal yesterday and was very excited about the Spiral Coil MWO. I congratulate Mr. Schad on doing a very good job and would submit the following input for future models.

1) No aluminium tubing should be used. Copper or steel tubing should be used instead. Aluminium is wholly negative. It attracts negative radiation like honey attracts flies. In this connection, I heard this morning on the British radio that a "mobile home" site had just been devastated in the USA. If I'm right, "mobile home" site means trailer park, in which there is a huge quantity of Al. These are prime targets for tornadoes and all kinds of negative influence. My chief reference for this is Dr. Starbard Webb, Box 200, Orangevale, CA 95662. She has been studying the subject since 1956 and has accumulated a mass of data. Be patient for she travels a lot in the

States doing seminars etc.

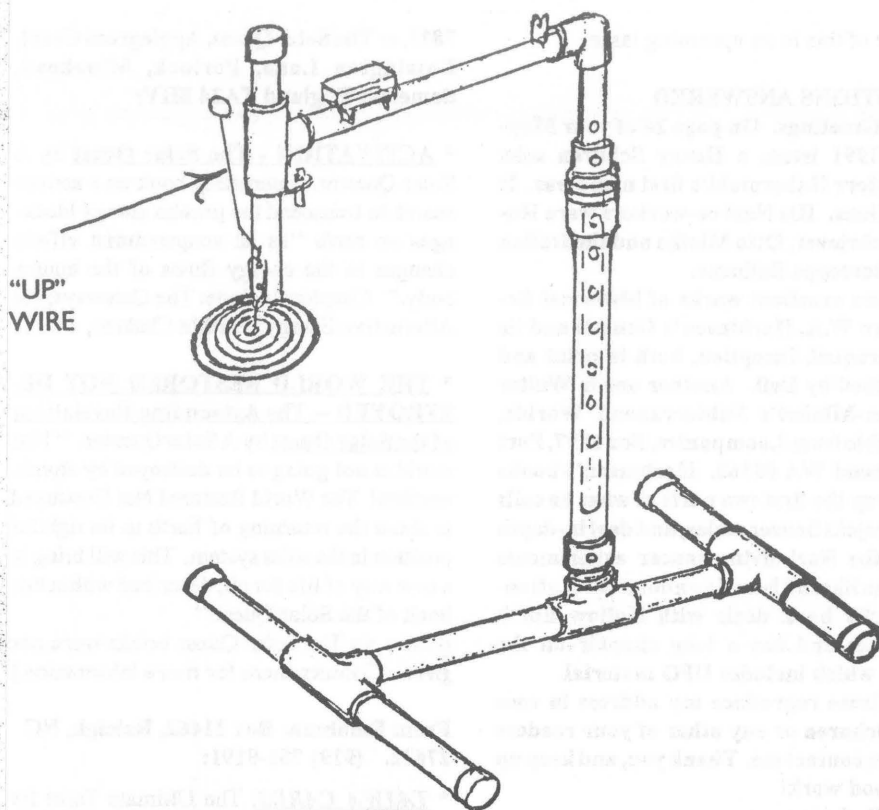
2) The rest is from a Tibetan lama whom I showed the drawing. If you're wondering what a lama would know about the MWO I would say that they seem to know about everything that matters. For instance, in my own field (medicinal plants) their knowledge is not great, it is simply colossal, far beyond anything known in the West. The Lama tells me that there should be 12 coils, no more no less (Fig. 6). The "up" wire (see photocopy) should be five times longer than the diameter of the coil. No doubt further information will be forthcoming when the whole of the MWO is described.

Yours sincerely,  
Ron Crossley  
Solesmes, France.

Glad to hear of your suggestions for further research on Lou's spiral coil MWO. His articles have stimulated a lot of work that should provide a lot of new ideas over time. Peter Lindemann has taken Lou's concept of physical vibration and is experimenting with phi ratioed antennas that are stimulated with sub-audible sound. Also, Lou called to make sure that it was clear that the antenna surface facing the subject is a counterclockwise spiral. It is clockwise from the top.

Interesting thoughts on the mobile homes, which are reverse orgone accumulators. A few items congruent with your comments have showed up over the years and perhaps we can get more on that in an upcoming issue.





## SPIRAL COIL MULTI-WAVE OSCILLATOR

The following was forwarded to us from Health Research, Box 70, Mokelumne Hill CA 95245: **IMPORTANT MWO INFORMATION**

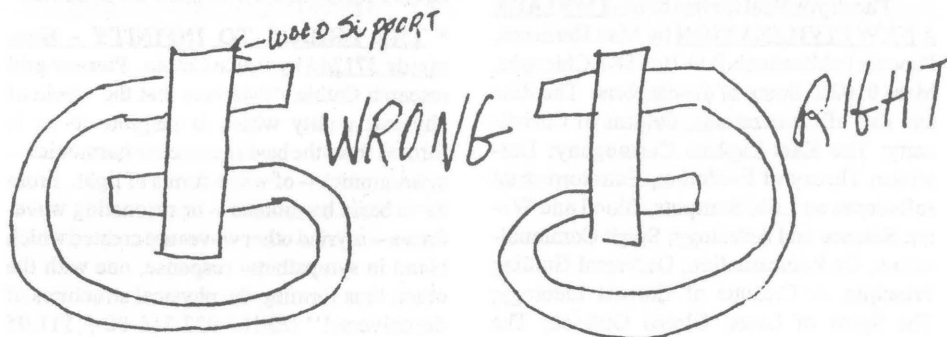
On your [HR'S] green colored flyer of The Handbook of Unusual Energies, your artist shows the copper wire positioned incorrectly through the wood support.

I have made a number of discoveries which I even find hard to believe by using this **COILED COPPER WIRE**. I expect to write a booklet on my findings and you may want to represent it in your sales catalog. I have proven over and over again what I have done but, to date, have not shared anything with anyone else. I had to be **ABSOLUTELY CERTAIN** before I 'went public'.

When I first received the books **THE SECRET OF LIFE** and **THE WAVES THAT HEAL** from you about 4 years ago, I noted carefully just how the copper wire was **COILED** around the plant. Please note that the copper wire **STARTS** from **INSIDE THE EBONITE** and **MOVES COUNTER CLOCKWISE** and then ends **ABOVE** the ebonite... This is shown on page 14 of **THE WAVES THAT HEAL** and page 110 of **THE SECRET OF LIFE**.

In the past four years I have made dozens of experiments — and I've gone far

beyond what even Lakhovsky did or thought of. **NOW**, to prove my point about the proper way the copper **MUST** be coiled, I deliberately experimented by coiling the wire the way you have shown it — and **NOTHING HAPPENED** in all my experiments. That's why I **KNOW THAT I AM RIGHT** and it is imperative that you change your picture to show the correct way. I am not a scientist of a professional person, but I **KNOW** what I have done and you will have to take my word for it — unless you



~~SSSSS~~ want to **YOURSELF**, conduct the same experiments I have and **PROVE** it to yourself... I have not the slightest idea **WHY** the copper wire **MUST** be coiled this way but I **DO KNOW THAT IT MUST**.

You know as well as I that **EVERYTHING** in the **COSMOS** is perfect, exact, precise and absolute — that the **LAWS, FORCES, ENERGIES, POWERS, FREQUENCIES, RAYS...** and all the rest function flawlessly and cannot allow any variations even for an instant. Life as we know it will cease forever if even an **INSTANT** change is made by whatever cause.

I would dearly love to see one of Lakhovsky's **BELTS, COLLARS, BRACELETS** — he calls them **OSCILLATING CIRCUITS**, of course, and although the picture on page 63 of **WAVES THAT HEAL** is interesting, I am wondering if there is more to it that what this artist concept shows. I have yet to experiment with a **HUMAN BODY** as I will need to be very careful to use the **RIGHT PERSON** who will not think that I have gone off the deep end and headed for the 'funny farm'. But Lakhovsky certainly has plenty of evidence to show. If you know of anyone who has one of the **ORIGINAL** Lakhovsky oscillating circuits, let me know. It is imperative that the 'human' circuits **MUST** be done, and applied, correctly.

Allan Pickett,  
Papillion, NE

### HELPING FELLOW HUMANS

Your Journal, along with Resource catalog sent with Foundation information gives ample reason why your publication and lifetime efforts are denied by the **U.S.A.** system and the materialistic mentality which is its God. Mind you, I did not say the **U.S. Government** or the **Citizens of the U.S.A.**, I said the **Economic/Political power**

along with the Corporate/Academia who control this self-destructing system.

With that said I'm enclosing two books whose subject matter are incipient sources of human kind's true reality.

Anything you may do to promote these works will be your lasting personal effort to help yourself and your fellow human.

Robert Broda

St. Paul, MN

Thank you for these two books, **ASTROLOGY OF INNER SPACE** by Carl Payne Tobey, Omen Press, Tucson, Arizona, 1973, ISBN 0-012358-25-4; and **THE WAY TO SELF-KNOWLEDGE** by Gopi Krishna, F.I.N.D. Research Trust, R.R. 5 Flesherton, Ontario, Canada, NOC 1E0; and **The Kundalini Research Foundation**, P.O. Box 2248, Noroton Heights, CT 06820, ISBN 0-917776-01-1. The Astrology book is excellent and not what you would think. Tobey discusses how the ancient astronomers were also the mathematicians and goes on to delve into the reality of the astrological forces. The preface invokes Charles Fort and Immanuel Velikovsky among other incidents to show that real events exist despite their denial by the status quo. The Gopi Krishna book is a guide to self-knowledge written in quatrains.

#### NEW CIVILIZATION

Please renew our subscription. Your publication continues to be great — some articles are a little over our heads, so to speak. However we need the re/educational material. We are sending you a book that you might review for your readership. This man has compiled a mountain of information along with a well written documentary of many of our failing systems. Thanks for your consideration.

Paul E. Little

Pyramid Press

5494 Raleigh-LaGrange

Memphis, TN 38134

Thank you Paul for this book, **TOSTART A NEW CIVILIZATION** by Max Hermann, Phoenix Publications, P.O. Box 884, Chicopee, Mass 01020. Some of the chapters: The Rise and Fall of Civilizations; Origins of Christianity; The Kant-Laplace Cosmogony; Darwinian Theory of Evolution; Extraterrestrial Influences on Life; Sunspots, Blood and Water; Science and Astrology; Spirit Communication; On Reincarnation; Universal Guiding Principle; A Critique of Current Ideology; The Spirit of Laws; Global Outlook; The Approaching Epoch of Double-Pisces; A word on Calenders. Price unknown, but a good book for researchers. Perhaps we can get a

review of this in an upcoming issue.

#### QUESTIONS ANSWERED

"Greetings. On page 24 of your May-June 1991 issue, a Henry Schuren asks what Herr Habermohl's first name was. It was Klaus. His Nazi co-workers were Rudolf Schriever, Otto Miethe and the Italian Dr. Giuseppe Belluzzo.

Two excellent works of historical fiction are W.A. Harbinson's **Genesis** and its new prequel, **Inception**, both in print and published by Dell. Another one is Walter Kafton-Minkel's **Subterranean Worlds**, available from Loompanics, Box 1197, Port Townsend WA 98368. Harbinson's books make up the first two parts of what he calls the **Projekt Saucer** series, and deal in-depth with the Nazi flying saucer experiments and the like, all heavily annotated. Kafton-Minkel's book deals with **Hollow Earth Theories** and has a long chapter on the Nazis which includes UFO material.

Please reproduce my address in case Mr. Schuren or any other of your readers wish to contact me. Thank you, and keep up the good work!

Paul Rydeen

P.O. Box 537VA, Tuskegee, AL 36083

Thank you for the information. **Subterranean Worlds** is an excellent book that we hope to get reviewed soon. It would be quite interesting to know what really went on in top secret experiments on all sides of the second world war.

#### RECEIVED

A listing of books received at BSRF HQ.

From America West Publishers, P.O. Box 986, Tehachapi, CA 93581 (805) 822-9655:

\* **THE ENERGY GRID** -- by Bruce L. Cathie This is the revised and up-to-date (as of 1990) combined edition of Bruce Cathie's books **HARMONIC 695** and **PULSE OF THE UNIVERSE**. ISBN 0-922356-20-3, \$13.95

\* **THE BRIDGE TO INFINITY - Harmonic 371244** by Bruce Cathie. Pioneer grid research Cathie "theorizes that the whole of physical reality which is tangible to us is formed from the basic geometric harmonies -- or harmonics -- of wave-forms of light. From these basic harmonies -- or resonating wave-forms -- myriad other waves are created which blend in sympathetic response, one with the other, thus forming the physical structures of the universe!" ISBN 0-922-356-00-9, \$11.95

From The Solar Quest, 11920 Cragwood Way, Potomac, Maryland 20854, (301) 299-

7837, or The Solar Quest, Applegreen Court, Bossington Lane, Porlock, Minehead, Somerset England TA24 8HV:

\* **ACTIVATION - The Solar Quest** by Solar Questor. Interesting book on a series search to transcend the present energy blockages on earth "as an acupuncturist effect changes in the energy flows of the human body." Chapters include: The Gateways; Alternative Energy; Earth's Chakras, etc.

\* **THE WORLD RESTORED NOT DESTROYED - The Astounding Revelation of the Solar Quest** by A Solar Questor. "The world is not going to be destroyed by atomic warfare! The World Restored Not Destroyed is about the returning of Earth to its right position in the solar system. This will bring a new way of life for all, described within the book of the Solar Quest."

(Prices on The Solar Quest books were given. Contact them for more information.)

From Emahmn: Box 31462, Raleigh, NC 27622. (919) 781-9191:

\* **TATWA CARDS: The Ultimate Tarot Self-Mastery & Maximum Utilization of Personal Power.** Tatwa symbolism is a direct means of communication between self-conscious (left brain) awareness and the subconscious (right brain) mind and has been used in ancient civilizations since time immemorial to both communicate and transcend our physical reality. By employing a number of geometric designs you can invoke a desired state of consciousness. The Tatwa deck "SUPRAVISION" contains 87 cards and comes with an easy-to-follow book which explains each design. You provide the intuition. \$25.00.

\* **CHAKRA BALANCING** is an exercise workbook that helps you achieve and maintain good health, complete happiness and prosperity. Unlock your inner power through Chakra Balancing. 90pp, \$24.00.

\* **THE COLORING BOOK OF MAGIC DESIGNS** contains 40 positive transformational designs which you color for your own personal development and meditation. Printed on heavy stock. \$22.00 (Add \$3.25 shipping for each item from Emahmn).

\* **BASHAR: Blueprint For Change** -- message from Our Future, Channeled Material from an Extraterrestrial by Darryl Anka. New Solutions Publishing, c/- Luana Ewi, 4838 50th Ave. S.W., Seattle, WA 98148. ISBN 1-56284-113-0, \$15.50 postpaid.



\* **SMART DRUGS & NUTRIENTS** by Ward Dean, M.D. and John Morgenthaler. How to Improve Your Memory and Increase Your Intelligence Using the latest discoveries in neuroscience. B&J Publications; P.O. Box 483, Santa Cruz CA 95061, 800-669-2030, ISBN 0-9627418-9-2, \$9.95

\* **DEATH OF IGNORANCE** by Dr. Frederick Bell, Pyradyn, 1278 Glenneyre #255, Laguna Beach, CA 92651, (800) 729-2603. Interesting and extensive compendium of a number of borderland type researches such as, Electricity and You; Ions; Air Pollution; Nature's disposal of Air Pollution; Common Energies; The Four Ethers; Kirlian Photography; The Cell; Blood - True Elixir of Life; The Vagus Nerve; Vitality Globule; Passing of the Piscean Age, and more. This group is also the source for a number of interesting subtle energy devices. Write or call for a catalog.

\* **TOTAL ECLIPSE GUIDEBOOK** July 11, 1991 -- Hawaii and Mexico by Raymond Mardyks, Box 330806, Kahului, Hawaii 96733. While this booklet is geared toward the big eclipse this summer it is an excellent little sourcebook for solar motion in general. Also covers Legends and Folklore; Planets and the Eclipse; Earth Energy and Sacred Sights, Horoscopes of the Eclipse. \$5.00 + \$1 postage. An informative read.

\* **NATIONAL SIGHTING YEARBOOK 1989** -- Data on 759 UFO Sightings from 1986-1989 by Paul Ferrughelli & Bob Sylvester, National Sighting Research Center, 60 Allen Drive, Wayne, NJ 07470. This book is a statistical analysis of data relating to UFO sightings. Graphs, charts and maps represent frequencies of sightings, locations, common factors in sightings, and other specific data. Quite a useful tool for getting a feel of the phenomenon. \$7.00 + \$1 postage. The NSRC is trying to obtain as much UFO sighting data as possible to allow for a healthy sample for analysis

\* **A SHORT COURSE IN VIBRATION PHYSICS & PHILOSOPHY** for the non-physicist developed as a Certification Course in Sympathetic Vibratory Physics, Level I - Basic Theory, prepared by Dale Pond, Delta Spectrum Research, 1309 N. Chestnut, Colorado Springs, CO 80905, (719) 473-8852. Dale has been doing a lot of good work over the last few years working on trying to understand the nature of substance through acoustics and vibrations. His concepts are gelling well and he is offering his material in a coherent form for people pursuing this knowl-

edge. There is a 230+ page glossary of terms as part of the package. \$150 includes a one year subscription to the monthly Sympathetic Vibratory Physics.

\* **NEXUS NEW TIMES**, PO Box 912, Artarmon, NSW 2064, Australia. This is an interesting magazine that we exchange. Covers the Australian alternative energy and medicine scene, as well as covering far out news from around the globe. A\$15/year in Australia, A\$26/yr overseas surface, A\$32/yr air-mail, bi-monthly.

\* **NATURAL SCIENCE** - The Newsletter of BioPhysics from Michael Thau, Higher Dimensional Science, 405 Davis Court #2208, San Francisco, CA 94111, (415) 296-1124. This is the first issue of what looks to be a promising source of good information. Articles on Super-Luminal Radiation; Negative Ions and Health; Electro-Medicine & AIDS; Body Hydration; Energy & Geometry; and, BioPhysical Effects of Vibrations.

### CONTACTS

*A resource listing and nexus for researchers who wish to contact each other.*

\* **ELECTRIC POWER GENERATION METHODS**: Data exchange including experimentation on vast file of working devices. Alexander Peterson, 11,200 Gravois-C, St. Louis, MO 63126.

\* **SPAYCE FLYTE RESEARCH NEWSLETTER**: The words "SPAYCE FLYTE" are coined words that mean: Astral Projection, Out-Of-Body Experience (OBE), Psychic Projection, Etc. This Newsletter is Vol. 1, #1, Sept. 1991 and is an OCCASIONAL PUBLICATION that, for the present time, is FREE; obtainable by sending us an S.A.S.E. (large envelope) for each issue.

The main purpose of our group named: SPAYCE FLYTE RESEARCH is to do research and networking in the area of spayce (astral projection) flyte. Everyone is encouraged to send us letters, including their complete name and address, a brief biographical sketch, their various experiences, etc. All letters will be published in our newsletters, within the prerogatives of editing, available space, etc.; unless requested to do otherwise. Participants are encouraged to connect and communicate with others for the exploration, exchange and experimentation among themselves. One of our aspirations is that "SPAYCE FLYTE" will be utilized as an effective supplement to conventional space programs.

My name is FONG LEE YEE, age 74;

served in the US Army Infantry, the US Air Force and Merchant Marines during WW II; occupation: Radiation Protection Consultant (retired). Member: Rosicrucian Order, AMORC, San Jose, CA; American Soc. of Dowsters, Danville, VT; Borderland Sciences Research Foundation, Garberville, CA; Midwestern Epigraphic Soc., Columbus, OH; Ohio Ecological Food & Farmers Assn; Psychic Research Soc. of San Jose, CA; Ohio Soc. for Psychic Research, Columbus, OH. My first experience in the Spayce Flyte occurred when I was about 13 years of age and I recalled being very scared, as I was dealing with the unknown and did not have the vaguest idea with whom to talk about the incident; since then I've had various similar experiences over the intervening years. Sometime ago I became aware that the Laplander reindeer herders who inhabit the northern regions of Finland, Sweden, Norway, Denmark and Russia use astral projection (doppleganger) techniques to communicate with the loved ones when they (the herders) were about to return home shortly from their reindeer herding activities. I phoned the Finnish Embassy in Wash., DC and talked about wanting more information concerning the doppleganger (OBE) activities of the Laplanders. She said that it was a fact that they used the doppleganger method to communicate with their distant loved ones and that, also, during WW II the Laplanders used the technique during their "underground" contacts with one another. She graciously consented to try to get me more information from one of the Scandinavian universities. I am awaiting a response.

FONG LEE YEE,  
SPAYCE FLYTE RESEARCH  
PO Box 12083, Columbus, OHIO 43212

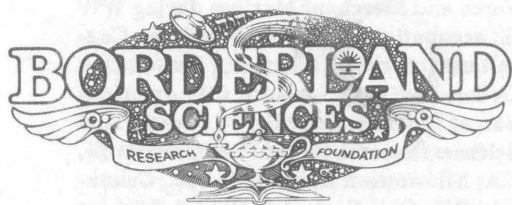
### CONFERENCES

\* U.S. Psychotronics Association, July 17-21, 1991, Dayton, Ohio. Contact Bob Beutlich, 2141 Agatite, Chicago IL 60625

\* Extraordinary Science Conference, July 25-28, 1991, Colorado Springs, CO. Contact Steve Elswick, Box 5636, Security, CO 80931 (719) 475-0918

\* Global Sciences Conference, August 1991, Denver CO. Contact: Dean Stonier, 3273 E 119th Pl., Thornton CO 80233, (303) 452-9300

\* The UFO Experience, Oct. 12-13, 1991, North Haven, CT. Contact: Omega Communications, PO Box 2051, Cheshire, CT 06410. (203) 272-2151.



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## NEW RESEARCH REPRINTS FROM BORDERLAND SCIENCES

**THE ETHERIC FORMATIVE FORCES IN COSMOS, EARTH AND MAN** by Dr. Guenther Wachsmuth, 1932. A Path of Investigation into the World of the Living. Absolutely essential reading for the Borderland Scientist. This is a brilliant exposition of the Four Ethers and their functions in forming the life processes on our plane of existence. Includes: New Theory of Motion; Organic and Inorganic World; Etheric Formative Forces; Earth Organism; Breathing Process of the Earth Organism; Circulatory Process of the Earth Organism; Rotation of the Earth; Etheric Currents in the Earth Organism; Gravitation and Terrestrial Magnetism; The Sun; The Planets and their Spheres; The Interior of the Earth; Metamorphosis of the Etheric Formative Forces in the Planetary System; Etheric Organism of Earth and Man; Ontogenetic Origin and Disappearance of Substance; Relations between the Worlds of Spiritual Being, of the Etheric, Of Substance, and of Force; Space and Time - Genesis and Disappearance; New Theory of Light and Color; Tone; The Dissolution of Substance, and Radioactivity; Shape-Building Forces and Archetypal Forms in Nature; Threefold Human Organism; Etheric Formative Forces & the Art of Healing. The many color charts are redone in black and white to allow for lower cost duplication. #B0118, 250pp, staples ..... \$20.95

**ATOMS AND RAYS** by Sir Oliver Lodge. 1924, In this important work the great ether researcher Oliver Lodge explains the ABC's of the atom in layperson's terms. It is an excellent introduction to the then modern views on atomic structure and radiation. Investigates the possibility of harnessing the atom and the relations between matter, energy and the ether. #B0114, 208 pp, staples ..... \$16.95

**ELECTRICITY AND MATTER**, J.J. Thomson. 1904 This book encompasses the exposition on advances in electrical science at the turn of the century, from the Silliman lectures at Yale University. In these lectures, Thomson disclosed many of his facts leading up to his discovery of the electron. #B0115, 162pp, illus, staples ..... \$12.95

**HANDBOOK OF MEDICAL ELECTRICITY**, Herbert Tibbits, 1873. This in-depth treatise on the medical uses of electricity concentrate on the electro-medical apparatus and the professional application of electricity, along with the diagnosis. Contains woodcuts of rare and unique historic electro-medical apparatus. #B0116, 204ppp, 64 illus, staples ..... \$16.95

**MAN, MOON AND PLANT** by H.E. Staddon, 1943. A profound pioneering effort into establishing the laws of planetary influence on earthly life. Chapters include: The Plan for the Plant: Evolution; Astrological Inferences; Man as Creator and Protector; Occult Biological Principles Processes and Powers; The Melody of Mutants. #B0117, 75pp, illus, staples ..... \$7.95

**JOURNAL OF BORDERLAND RESEARCH**, bundle of all available back issues going back to around 1971, a few gaps but quite a mass of articles, projects and information. Available Now -- while they last. .... \$100pp

Release date for these reprint research titles is August 31, 1991.

All BSRF Members's orders postmarked before that date receive a 20% discount off the retail price.

**POSTAGE & HANDLING: Add \$2.75/first, 75¢/additional, Californians add 6% sales tax**