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TABLE OF CONTENTS

ULTRAVIOLET RADIONICS
Ed Skilling (1-3)

THE TRANSMISSION OF ELECTRICITY, Part I
Eric P. Dollard (4-7)

ECLIPSES....AND YOU!
William H. Hossick (8-12)

SPECTRUMS OF DARKNESS AND LIGHT, Part II
Tom Brown (13-17)

UNDERSTANDING RADIONICS
Roger Calverly (18-23)

THE CONSTITUTION OF THE SUN AND STARS
Carl Frederick Krafft (24-25)

CLIPS, QUOTES & COMMENTS

- * UFO BREAKTHROUGH? * BOOKS RECEIVED *
- * HYDROGEN A COMPOUND * FULL SPECTRUM LIGHTING *
- * GROWTH OF PLANTS UNDER COLORED LIGHTS *
- * AUTHORITIES * RESEARCH INTO THE BORDERLANDS *
- * OUR PATH THROUGH THE ETHERS * THE FOUR ETHERS *
- * BORDERLAND BUSINESS * MAIL ORDER UPDATE *
- * BORDERLAND GRAB BAG * CONTACTS *
- * PUBLICATIONS FOR SALE * BOOKS FOR LISTENING * (26-36)

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ULTRAVIOLET RADIONICS

By Ed Skilling

"Black Boxes" used in psychotronics networks throughout the world in the past 65 years have used variations of radio type components as tuning devices, mostly resistance decade boxes that change values by 10. Capacity tuners that change capacitance by rotating plates are in vogue at present but are now being replaced by digital electronics in computer type devices. The newer devices using digital systems appear to give faster data and with greater accuracy in the readout. It is quite difficult to argue with the value of a digital number displayed in the reading.

The variable capacitors for building copies of the older devices are becoming scarce. The capacitance tuners cannot compete with digital numbers in accuracy. The weakest point in all the hardware is the detector that tells the operator the final result. A rubplate or pendulum is not viewed as scientific by the scientific community whose acceptance is needed to get the recognition it deserves. It is a known fact that a box with nothing but numbered dials will perform if the user "believes" and uses the hardware as a concentration intensifier. The computer device simplifies the task for the operator by its storage ability for the large number of rates used as reference. The computer still requires training for a beginner in the art. The computer is still beyond the means for the average person who may be interested in this field.

My belief is that most people desire to see the world rid of the crippling diseases. Many good people get in trouble with these devices by treating ill people and this is considered to be practicing medicine without a license. Keep in mind that one can still treat themselves without a license. Keep in mind that one can still treat themselves without getting into trouble with any method.

In my personal experience of many years in fabricating devices of all types including devices using these subtle energies we have found that almost any type of radionic device will work if one has the "belief", or faith in whatever one desires. A great desire of mine for many years is to build the ultimate unit with an automatic readout. At the start of this year 1987 we have been involved in the development of a device using the light spectrum for the carrier frequency of the radionic signal. In doing this research we also are working to achieve the ultimate detector with digital readout. The area of greatest interest is the ultraviolet spectrum in the wavelength of 50 to 3900 Angstroms. To make clear what we are about to discuss in this spectrum we will define some terms taken from a book titled "OPTOELECTRONICS" by Robert G. Seippel.

1. Infrared--Band of light wavelengths that is too long to be seen by the human eye.

2. Visible--Band of light wavelengths that the human eye responds to.
3. Ultraviolet--Band of light wavelengths that is too short for the human eye to see.

WAVELENGTHS

1 Micron = 10,000 Angstroms

ULTRAVIOLET:	0.005	to	0.39 Microns
VISIBLE:	0.39	to	0.75 Microns
INFRARED:	0.75	to	4000.00 Microns

OPTICAL COLORS AND THEIR WAVELENGTHS IN MICRONS - VISUAL RESPONSE:

VIOLET =	0.40 - 0.45
BLUE =	0.45 - 0.50
GREEN =	0.50 - 0.57
YELLOW =	0.57 - 0.59
ORANGE =	0.59 - 0.61
RED =	0.61 - 0.70

ACTION OF LIGHT ON MATERIALS: All material does not "see" light in the same manner. There are basically different light-receptor materials. These are opaque, transparent and translucent. Opaque = no see, transparent = all see, and translucent = see partially.

RADIANT ENERGY = Photons--the higher the frequency the higher the radiant energy which means the maximum photons that will be produced.

In 1985 we spent a great deal of time and effort in exploring beyond microwaves. We used the infrared band by using the heat produced by the vasodilation of the capillaries in the palm of the hand. The detector would respond to a mental thought but was a few milliseconds slower than the mental response. SO!!!----- Back to the drawing board. Now we are into the ultraviolet band. To begin in this part of the spectrum we chose to use the low end of the band that we could see with the normal human eye response.

To test our intuitive hunch we designed a glass tube in the shape of a U to accommodate a sensor in the center of the U shape. To produce the desired bandwidth in ultraviolet it would require a tube using argon gas. This gas gave us the plasma to produce the carrier signal. A local neon sign glass blower fabricated our design. To ionize the gas requires 1500 volts at 9 Milliamperes which is well within the capacity of a small neon sign transformer.

The next task was the need for a light-tight box to eliminate all light except the ultraviolet. The UV is used to reflect the photon energy from a photograph. This box now becomes a unique "well". The well in this concept is actually a sliding drawer that any type of material can be analyzed by converting the signal produced by the reflected UV light. The light energy photons are sensed and converted into digital pulses and then read by a digital display. The signal, along with the subtle energy of radionics carried by the UV photon energy, is processed by additional circuits to indicate the final reading of the resultant action produced by the photon energy of the ultraviolet.

After construction of the completed assembly with the UV tube and associated electronics it was ready for the first test by a person other than myself who would not be influenced by my predicted thought processes of the results. (Our policy in testing this type of equipment is to use the best experts in the field to determine if the device will perform to the design criteria which by-passes the designer. Our person spent the better part of the day putting the equipment through the test operation and we were excited to learn that it met all the design expectations. Our expert associate used a digital SE 5 to check the results. Many hours of testing indicated that we were on the right track in using ultraviolet for a carrier frequency. The new equipment was fast in producing the desired results.

The first testing was accomplished in the early part of the month of June, of this year 1987. A second unit was constructed and sent to our expert associate who has been using the unit daily since then. At the present point in time continued testing indicates that the UV unit is working at a cellular level rather than the conventional devices that work on the organs of the body.

All reports indicated that this concept in the field of radionics is superior to any device in the marketplace today. Our desire is to be able to make this technology available to the serious researcher who desire to experiment with this type of equipment for their personal use, keeping in mind that it is not approved by the medical profession.

We would like to share the information with the Associates of the BSRF group by publishing the information as it develops and to make available the components required to fabricate a complete instrument to research this radiant energy field.

The current plan is to produce the device in a modular form. As an example the first phase will be to provide construction information to fabricate the UV section in a container that can tie into existing radionics devices.

Complete assemblies can be made available if the Associates are interested in this concept.

END OF PART ONE

TRANSMISSION OF ELECTRICITY

Eric P. Dollard

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Part I - Electro-Magnetic Energy

A) When electro-magnetic energy is conveyed from one point in space to another point in space a closed loop is required to connect the point of generation with the point of utilization. This closed loop is called the electric circuit and consists of a boundary formed by what have become known as electric conductors. This boundary encloses a definite quantity of space.

When electro-magnetic energy flows through the space enclosed by the electric circuit phenomena take place inside the circuit material as well as the space outside this material.

Within the circuit conductor material, during the passage of electro-magnetic energy, this energy is continuously being consumed within the molecular space and converted into thermo-dynamic energy (heat). This may be represented by the passing electro-magnetic wave dragging into the electric circuit material. This drag is analogous to frictional losses and is called the resistance of the electric circuit, R.

In the space outside the circuit conductor material, during the passage of electro-magnetic energy, a condition of aetheric stress exists, which is called the electric field of the electric circuit. The energy contained by the electric field is continuously being transferred through this space from the point of generation which supplies energy to the electric field to the point of utilization which abstracts energy from the electric field.

The electric field of the circuit exerts physical magnetic and dielectric actions. The magnetic action is orientated parallel to the surface of the conductor material (in its immediate vicinity). That is, a needle shaped magnetic body tends to set itself in a direction parallel to the surface of the conductor material.

The dielectric action is orientated perpendicular to the surface of the conductor material (in its immediate vicinity). That is, a needle shaped dielectric body tends to set itself in a direction perpendicular to the surface of the conductor material

Thus, the electric field of the circuit, over which passes the flow of electro-magnetic energy, has three fundamental axes which are at right angles with each other:

The dielectric axis, perpendicular to the conductor surface,

The magnetic axis, parallel to the conductor surface,

The electro-magnetic axis, co-axial with the direction of the electric circuit.

The space outside of the conductor material, bounded by the electric circuit, has the property of propagating a wavefront of light at a definite velocity, C. This velocity is a characteristic property of the aether in which the electric circuit exists. The inverse square of this velocity is called the capacitance of the electric circuit.

$$C = \frac{1}{c^2} \quad (4\pi \cdot 10^{-9} \text{ p}) \text{ farads}$$

The capacitance is a measure of the ability to store energy in the dielectric field of induction, of the electric circuit.

The quantity of space enclosed by the bounding electric circuit is proportional to the total length of the electric circuit, l_1 , multiplied by the distance between the bounding conductors, l_2 ,

$$l_1 l_2 = l_0^2 \quad (\text{centimetre})^2$$

and has the dimensions of an area. This area in square centimetres defines what is called the inductance of the electric circuit.

$$l_0^2 = L \quad 4\pi \cdot 10^{-9} \text{ p Henrys}$$

The inductance is a measure of the ability to store energy in the magnetic field of induction of the electric circuit.

Together, the capacitance and the inductance representing the dielectric and magnetic fields of induction of the electric circuit, serve as a measure of the propagation characteristics of the electric circuit for the transmission of electro-magnetic energy.

$$- LC = t^2 \quad , \text{ natural period}$$

$$- \frac{L}{C} = Z^2 \quad , \text{ natural impedance}$$

B) The popular conception of electro-magnetic energy transmission as it exists today is; energy is transmitted through the interior of the conductor material, that is, electricity flows through wires like water flows through pipes. This transmission is said to involve the flow of charged sub-atomic particles called electrons.

According to this theory the materials possessing the most "free electrons" serve as the best conductors of electro-magnetic energy. Conversely, the materials possessing the least "free electrons" serve as the poorest conductors of electro-magnetic energy. These materials are called insulators. Insulators are said to block the passage of electricity.

The conclusion drawn is that electricity is the flow of electrons and that the space outside of the conductor material is empty and dead. It follows that a superconductor is that material which offers no opposition to the flow of electrons and hence no opposition to the flow of electricity. Conversely, free space devoid of matter offers total opposition to the flow of electricity. Nothing could be further from the truth, yet this is the concept of electricity propounded by the scientist of today.

The real actions of the conducting material presents itself when it is in the so-called superconducting state. If a section of a superconducting material is suspended in space, free to move, and a magnetic field of induction is made to approach this material, it is found that the material is repelled by the approach of the field. If the material is indeed superconducting it will maintain a definite distance, l , for an indefinite period of time $t \rightarrow \infty$, from the source of magnetic induction. Any tendency for the material to sink into the magnetic field, $l \rightarrow 0$, indicates the material is not perfectly superconducting but has a finite resistance R .

It may be concluded that the so-called conducting material does not so much conduct as it does repel or reflect magnetism, or electro-magnetic energy in general.

If an electric circuit is conveying electro-magnetic energy as previously discussed it is found that a force or pressure is exerted upon the circuit material. This pressure tends to repel opposing parts of the circuit material and cause the circuit to expand. The quantity of this pressure in the space bounded by the circuit is called the magneto-motive force of the circuit.

It can therefore be seen that the conducting materials serve as the walls of a container holding magnetic pressure. If the conducting material is in the so-called superconducting state and the ends of the circuit are shorted the electric circuit will hold this magneto-motive pressure indefinitely, in analogy with compressed air stored in a tank. In order for this to be the result of electron flow requires that this flow be in perpetual motion, an unlikely proposition.

It may be concluded that materials called electric conductors might best be called electric obstructors and serve not to conduct electro-magnetism but serve to reflect it back on itself. The flow of electro-magnetism is conducted by the aethereous space bound by the obstructing material.

The character of this aethereous space is represented by its inductance L and its capacitance C . Since pure space is considered a perfect insulator by atomic theory is it not ironic that it offers the least resistance to the flow of electro-magnetism? It is then the insulators that are the true conductors of electricity.

ECLIPSES....AND YOU!

by William H. Hossick
Clinical Psychologist (Certified)

Eclipses occur when the positions of sun, moon and earth are such that the moon comes between earth and sun, or the earth's path intercepts sunlight normally cast upon the moon's surface.

The moon has four monthly phases: last quarter, new moon, first quarter, and full moon.

What takes place in each of these phases is the same as that which occurs at the time of lunar eclipse: earth comes between the sun and the moon. However, in order for a complete eclipse to occur there must be a straight-line relationship between earth, sun, and moon. The same is true of a solar eclipse: the moon's path must take it in such a way that sunlight is partially or totally blotted-out from the earth's surface.

In the past and even today, astronomers and astro-physicists spend much time and money preparing to photograph and record these eclipses which are fully predictable in advance.

The question I now raise is: WHY ECLIPSES?not HOW? WHEN? or WHERE?

Hard-thinking, insight, and patience all helped me to arrive at a rational and understandable explanation concerning the symbolism to be found in eclipses.

First of all, examine my Figure "A"..it is a diagram of a solar eclipse. Solar eclipses are of relatively short duration and cover, perhaps two or three minutes of time in the over-shadowing process. They may either be total or partial.

Let the sun represent and symbolize human "MEI" (from Latin "MEUS" = "ME")
Let the moon represent and symbolize human "EGO" (from Latin word for "SELF")
Let the earth represent and symbolize human "ID" (from Latin word "IT")

"ID" is a Freudian term used to describe that portion of human personality that stores and controls instinctive physical energy. ID IS AMORAL!

"EGO" is a Freudian term used to identify a part of human personality that tries to control and direct the energy of ID and is basically emotional in nature

"MEI" (or once termed "super-ego") comes from Latin word "MEUS" or "I" and is the highest level of activity a person can operate upon. It is moral-ethical, social in its makeup.

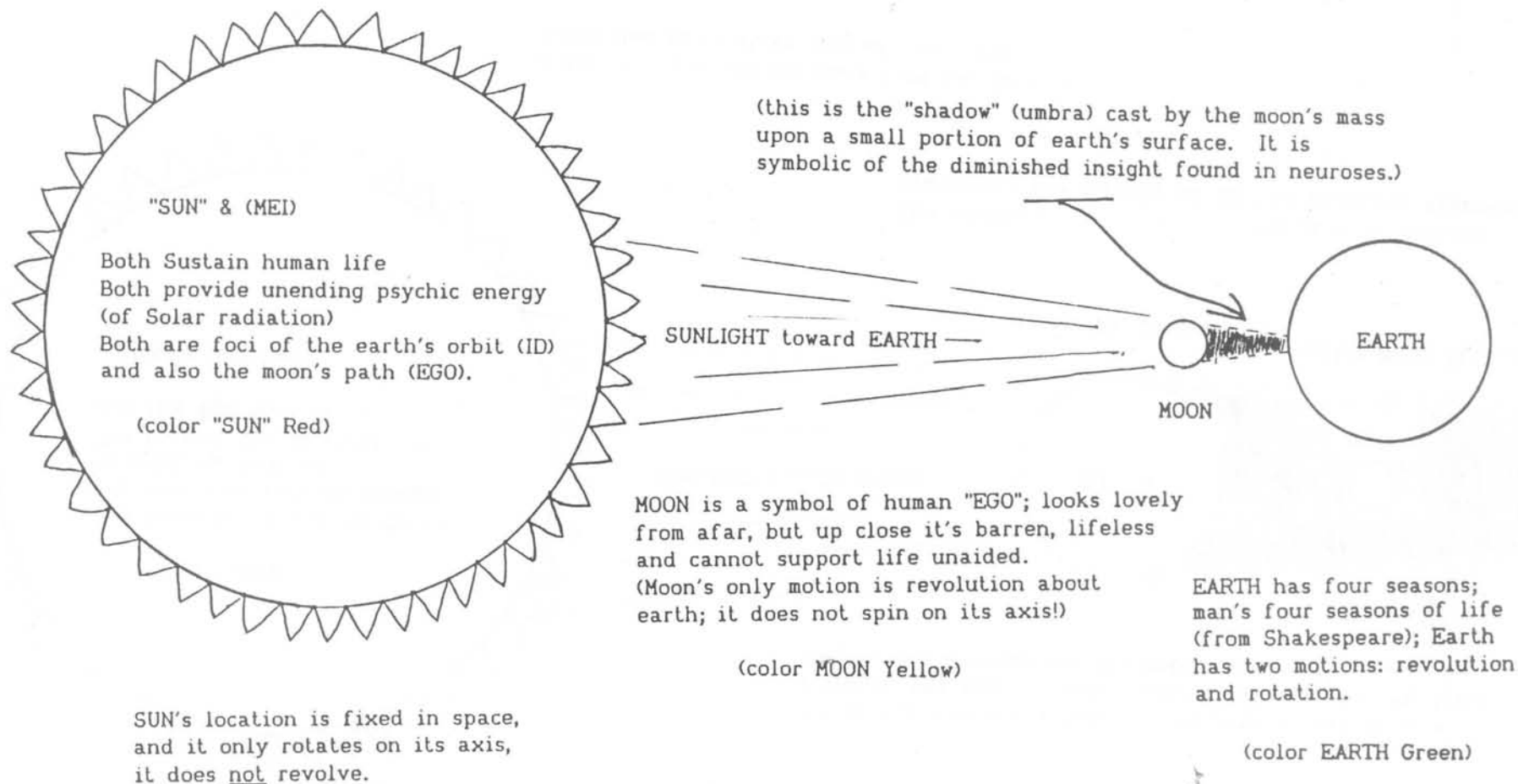
Now think of the three components involved in a solar eclipse then go beyond the mere physical experience using your insight, not merely your eyesight!

Each solar eclipse serves as a model (or PARADIGM) of what may happen when you permit your self-serving EGO to come between your physical being and your conscience-intellect.

Whenever you allow this overshadowing to be cast upon a small portion of your ID-earth, you will experience various symptoms called "Neuroses". They may affect any of your senses, your muscles, create loss of appetite (anorexia), and even some unreasonable fears called "phobias".

Figure "A"

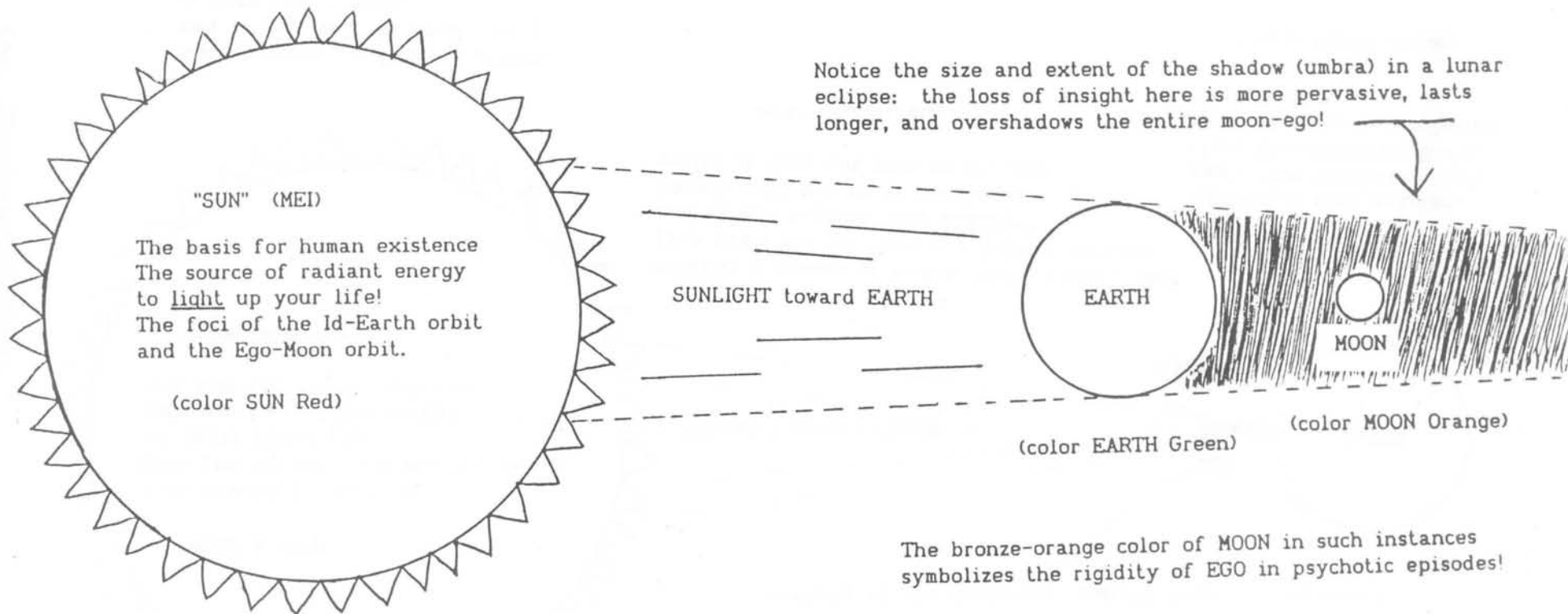
DIAGRAM OF A SOLAR ECLIPSE IN WHICH THE POSITIONS OF THE SUN, THE MOON, AND THE EARTH BECOME SYMBOLIC OF HUMAN "MEI", "EGO", AND "ID" IN NEUROTIC MENTAL PROBLEMS



Note: Period of Solar Eclipse runs about a minute or so due to small size of Moon and Earth's movement about Sun as well.

Figure B

DIAGRAM OF A LUNAR ECLIPSE IN WHICH THE POSITIONS OF THE SUN, THE MOON, AND THE EARTH BECOME SYMBOLIC OF HUMAN "MEI", "EGO", AND "ID" IN PSYCHOTIC PROBLEMS



The bronze-orange color of MOON in such instances symbolizes the rigidity of EGO in psychotic episodes!

Note: A lunar eclipse lasts from two to three hours due to relative size of the three orbs.

GENESIS 1:14 ..."and GOD said, "let there be lights in the firmament of the heavens to divide the day from the night; and let them be for SIGNS, and for seasons, and for days and years."

Many of these tend to be temporary, or periodic and some disappear in time. But many are also chronic and may last a lifetime.

These fall under the nomenclature of "psychosomatic illnesses" and may defy therapy.

Among the many types of neuroses I may include obsessive-compulsive disorders, anxiety, chronic fatigue, and sexual dysfunctioning.

Most of the neuroses are highly localized and do not incapacitate the entire body.

One critical difference I must stress between solar eclipses on the earth and this array of physical dysfunctionings is that the eclipse-time is relatively brief, but the impact of neurotic stress is often severe and longer-lasting.

During the period of a neurosis your insight is often fairly good, but you find it difficult to relieve the symptoms without professional help and/or medications.

Now, look at Figure "B". This diagram shows the relationship of sun, earth, and moon at the time an eclipse of the moon occurs..

The ancients were terrified of solar eclipses thinking that some unseen great beast was devouring the sun. They viewed it as the end of the world!

In Figure "B" the earth's size makes it possible for its shadow to cover the entire moon and at the time of full lunar eclipse the moon's color changes from white or silvery to a dull bronze hue...symbolic of what takes place in your EGO-system when you sustain a psychotic episode or a full psychosis.

The time of a lunar eclipse often runs more than two hours which transfers over to the usual length of a full-blown psychosis. Many suffer for the remainder of their lives in spite of chemo-therapy or psychoanalysis.

The light that fails in these cases is the light of INSIGHT!

Need I point out that "lunacy" is NOT caused by the light of the full-moon? Nor do I hold with the myth of moonlight turning people into "werewolves".

It's all based upon personality dynamics and maladjustments to social pressures.

These are difficult times for anyone, especially an unknown, to attempt to draw the interest of the publishing world to some of his works.

Our pride and intrinsic egotism makes each of us believe that we, alone, hold the "TRUTH" in our grasp. In this respect I am no different than the rest.

I, too, hold deep longings for recognition, for fame, and for acceptance of my discoveries about the make-up of the universe. I ask myself "how may I breach the bastions of indifference?"

Without contacts, pressure cliques, and "pull" the independent, and unknown, writer stand very little chance of moving off dead-center.

In 1818, Gordon Lord Byron wrote:

"What is the end of Fame? 'tis but to fill
a certain portion of uncertain paper:
Some liken it to climbing up a hill
Whose summit, like all hills, is lost in vapor.

For this men write, speak, preach, and heroes kill
And bards burn what they call their "midnight taper".
To have when the original is dust
A name, a wretched picture, and worse bust..."

When I first began working on this thesis back in 1974 I'll admit I had ideas of greatness but not as great as Lord Byron whose name is now immortal.

IDEAS, more than reinforced denim, are able to withstand many washings and still retain their original shape and fit.

But..what IS truth? When we examine Nature in all her complexities and diversities we find Her filled with all manner of mysteries and unknown quantities. Some are simple to find and understand; others take years of scholarly research and effort.

YES! Mother Nature is a jealous and protective matriarch in preserving Her treasures, but She is also honest and those who follow the correct pathways are often rewarded.

Back in 1946 while attending the University of Michigan (Ann Arbor, Mich.) I bought a book, "Generation of Vipers" written by Philip Wylie. I found many solid truths therein and was saddened by his death in 1971. What I remember most from his essays was one he did on "HYPOCRISY". It went like this:

"Hypocrisy is a condition of the EGO brought about use of the brain for the subjective repression of truth instead of its recognition. A hypocrite is a caught liar. He maintains his hypocrisy by denying, through his behavior, the lie of which he has been convicted. Hypocrisy is the most vicious mechanism of which the brain is capable, and the one against which Christ brought the full and continuing pressure of His arguments. Hypocrisy is, indeed, the only vice man is capable of."

In closing this essay I wish to extend my best wishes to Borderland Sciences who provided the opportunity for me to display some of my ideas in this publication

..and in the words of Feodor Dostoevsky..."man needs the unfathomable and the infinite just as much as he does the small planet which he inhabits."

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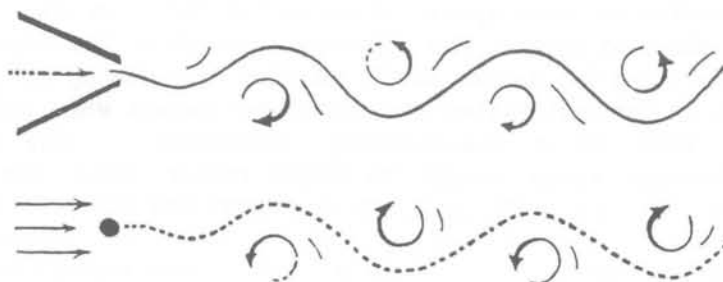
SPECTRUMS OF DARKNESS AND LIGHT, Part II
Tom Brown

"An error in thinking can lead centuries astray." --Goethe

It is essential that we reference our understanding of light and color to experience, otherwise we will be wallowing in a myriad of conflicting systems. To speak of two spectrums goes against what the science of today accepts. The theories of orthodox science state that white light is composed of the seven colors of the rainbow. The rainbow must be understood as a special case. Newton's experiment wherein he allowed a beam of light through a slit is also a special case and such actions are generally not found in nature. If we take our prism and look at a field with trees and fences, or a city scene with much contrast we will find that the color Goethe termed Purpur is more predominant than Green. We can see this and experience it. It matters not what is taught when our experience allows for our soul to grasp the reality.

Color is a border phenomenon! The slit through which Newton let in the beam of light provided two borders. When these two borders of light and darkness pass through the prism at the proper angle they come together and make Green in the center. The rainbow shows us the border between the cosmic and the terrestrial, with green as the balancing color between the two poles. The reverse spectrum can be projected by putting a dark object in front of the prism and allowing light in on the two sides. It is quite easy and this author has done it by placing a cardboard strip across the middle of the prism when held in the sunlight. With no slit or obstruction color appears only at the borders of the light projected through the prism, Violet (outer) and Blue (inner) at one end, and Red (outer) and Yellow (inner) at the other, with a broad band of White in the middle (projected on white cardboard). Green appears only when the prism is rotated to bring the two borders together. This indicates that color is manufactured in the prism by the interaction of the borders with the refractory action of the prism. On the reverse spectrum Magenta appears when the outer border colors, Yellow and Blue are brought together by rotation of the cardboard obstruction from wider to thinner.

Dinshah said that light is composed of two opposing oscillations in the ether. The flow patterns of water give us a clear analogy to understanding this and the process of projecting the two spectrums. This diagram (1) shows that the vortex trains from opposing causes form the same pattern, but the inner motions move in opposing directions. The pattern on the top is formed by water glowing through a slit. This is like the experiment of Newton. The pattern on the bottom is formed by water moving around an object. This shows us the projection of the reverse spectrum.



To understand the prism let us look at the sky. When we see the blue sky we are not seeing the color of the air, but the effect of a turbid, opaque medium (atmosphere stimulated by sunlight) covering a black field (outer space). The yellow sun is the opposing effect in which a turbid, opaque medium (atmosphere, light but darker than the sun) is in front of a light source (sun). As the atmospheric medium becomes more dense, the sky turns a lighter blue and the sun turns toward orange into red. When the atmospheric medium becomes more rarified the sky goes toward purple into black and the sun becomes more white. We see here that the violet-blue pole of color phenomenon arises out of black and the red-yellow pole arises out of white.

In the prism we do not get the splitting of light into its components but rather a shifting of images wherein a dual image of the view field is slightly overlapping itself. Where light crosses dark we see blue and violet, and where dark crosses light we get yellow and red. Newton partially based his theory of the light being split by refraction in the prism by viewing a red and a blue square side by side on a white card through a prism. When viewed in this manner the red will shift one way and the blue will shift the other. Science accepts this as graven in stone that the prism will shift colors in one direction because it views the phenomenon as a splitting of reflected light rays and the rays will split in one manner only. This can easily be disproved by placing a red and blue square on a black card and viewing through a prism--the colors will shift in the opposite direction! We won't say that Newton was wrong--he was only half right. Closer examination of this simple experiment will show that the colors do not shift but that the prismatic color phenomenon manufactures the colors at the borders of the red and blue squares. White manufactures them in one direction and black in the other. Forget the theories and take a look!

Let us take a card which is half black and half white and view it through our prism. We see color only at the borders and not in the black or white sections, just like the white middle field in the above mentioned projection experiments. The border colors are two opposing poles, Red and Yellow at one end and Blue and Violet at the other. The black field and the white field are in themselves inert as there is no color in them, which is plainly seen. It is only on the border regions where the action of the prism overlaps the images where the colors appear. In this case while we see that the overlapping of inert black and inert white create color we are also cognizant of the entire card being stimulated by the light ether.

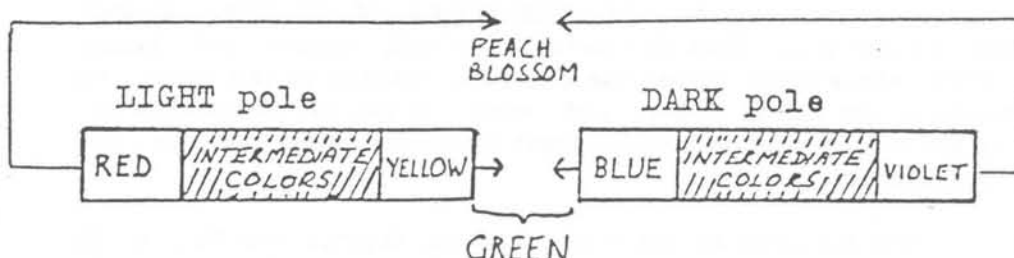
It appears we are actually dealing with a trinity. The light and dark sides of the card are in opposing activities, through stimulation of the light ether. In actuality we are dealing with a four quadrant phenomenon. We have the etheric action of the sun (solar wind, etc.) and we have the little understood space in which it acts. This is the cosmic pair of activity generators. On the terrestrial side we have the card with light and dark which we view through our prism. All phenomena in nature have their polarities and we see this in the dual activities of light.

The stars do not twinkle in outer space. When we get far from civilization we see a brilliant sky full of stars at night. The astronauts report on the blackness of space. At the time of this writing the author could not find any photographs taken in space which show any stars, or for that matter the sun either except when reflected on some surface such as the moon or a spacewalking astronaut. The atmosphere manufactures the light otherwise space would be bright rather than the darkness experienced. The sun does not cast light in space, it exudes the etheric. When the light ether from the sun and stars strikes the atmosphere then we perceive light. Dinshah stated that the sun cast no light, but creates light in the atmosphere. Visible light is a localized, secondary phenomenon and we find indications of this by

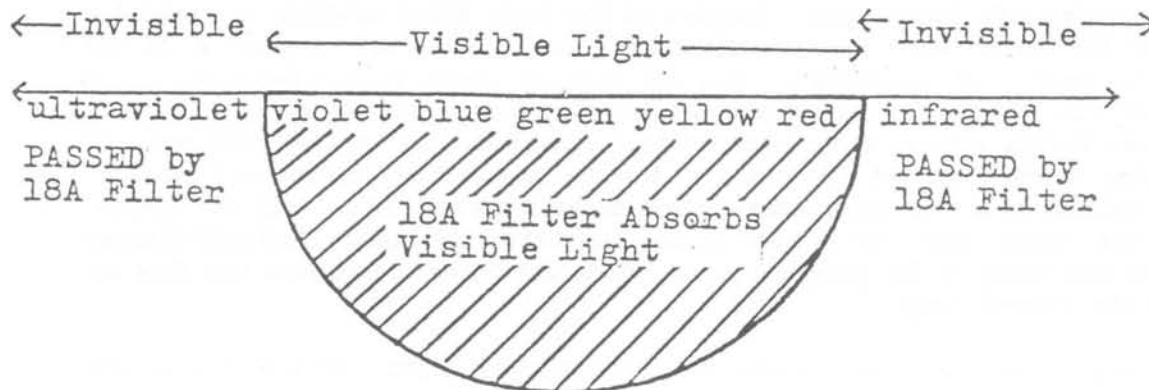
looking at the observations which Wilhelm Reich points out in his paper ORGONOTIC LIGHT FUNCTIONS (2). Reich states, "It is to be assumed that the phenomenon of light is itself a function of lamination of the atmospheric orgone." Reich distinguished between "light" and "electromagnetic" light waves. Since we know that light isn't electromagnetic we use the functional term "ether".

Trevor James Constable has shown a process wherein the reverse spectrum may be photographed. Since the 1950s Trevor has been photographing etheric entities in the atmosphere by using infrared film with an 18A filter. The 18A filter blocks out all visible light thereby providing two borders to allow in the reverse spectrum by creating borders at the low end of red and the high end of violet. The infrared film allows in light outside of the visible spectrum and picks up what the eye can't see. The 18A filter cannot pass visible light so that any color appearing on the film is a process of the reverse spectrum. It is important to note that the etheric UFOs photographed by Trevor are not infrared entities but reverse spectrum manifestations. UFO researchers with linear thought patterns cannot and will not accept the tremendous contribution to understanding the UFO phenomenon that Trevor Constable's reverse spectrum photography provides.

In past ages sensitive people could see and experience these etherians with extended vision. The 18A filter and infrared film give us a mechanical extended vision but the entities and forces are the same. Trevor has filmed full color etheric UFOs using this process with a motion picture camera, and gave a write-up of it up in HIGH ALTITUDE UFO PHOTOGRAPHY (3). This diagram reproduced from that article explains the action of both the forward and reverse spectrums as well as giving a solid groundwork for further verification of the etheric activities on this plane of manifestation.



Straight-line depiction of how light/dark polarities produce the two central colors: green and peach blossom.



GRAPHIC DEPICTION OF ACTION OF Wratten 18A ULTRAVIOLET FILTER

We can see how the Peach Blossom (or Magenta or Purpur) is formed by the wrapping around of the outer boundaries of the spectrum. This is precisely what Dinshah shows in his diagram of the interlocking triangles. Magenta is produced by the superimposition of the Red and the Violet slide. Trevor's diagram clearly shows the workings of Dinshah's symbol of light and color. Dinshah stated that Green and Magenta were on the same oscillatory wavelength. By being able to project the reverse spectrum this concept can be brought to the test with the proper equipment. Magenta and Green can be seen to be the median colors in their respective spectrums by applying the prismatic slit-obstruction experiment mentioned earlier in this article.



With intuitive study Dinshah's diagram of the interlocking triangles will reveal many secrets of light and color. The Red-Green-Magenta triangle is the physical spectrum relating to the structure of the elemental body and to gravity. The Yellow-Magenta-Blue triangle is the etheric spectrum relating to the etheric body and to levity. Our physical existence comprises of the interlocking of our elemental and etheric bodies, animated by our soul. This is true in the plant, animal and human kingdoms of nature. When the etheric leaves the elemental returns to the earth. We are the interlocking triangle, the living light, and when we get out of balance in body or spirit color is the most potent balancing agent available--the creative and regenerative power of the Creator.

Dinshah saw the reverse spectrum as the colors Scarlet, Magenta and Purple. He attributed all other colors to the rainbow spectrum. The forward motions of light provide us with the physical vehicle wherein resides our etheric body. Green is the governor just as green is the dominant color of the plant world which lives in a symbiotic relationship with light. The ingestion of Green vegetable matter is essential for proper life functioning. Magenta is the color which controls the sexual functioning of the body. Westerners usually cannot comprehend that sexuality is the gateway to the soul and understand and use only its lowest animal functions -- for pleasure, procreation, and little else. Magenta is also used to equilibrate past life karmas attached to the etheric body. Scarlet is a sexual builder in the subnormal and is also the circulatory stimulant. Purple is the circulatory depressant and builds the sexual functioning in the supernormal. This shows a direct link with the sexual functions of the body and the process of the circulation of blood. Rudolph Steiner indicated that the blood is not pumped by the heart, but rather it follows the flow of the spirit in the etheric body.

Dinshah discovered a thorough system of healing with light. This is not to say that other systems won't work--they will. Color is color and it will affect us at any time. Dinshah presented a most powerful manner for tapping the potency of light and

color, in rhythm with the movements of the universe. It stands as a thorough, workable system backed up by decades of case histories, something no other system can say. The Dinshah system stands on its own and we seek not to change it but in the light of further research we are most interested in comparison between other systems which have shown promising results. For example if one's eyes were underfunctioning Dinshah would recommend the sensory stimulant color of Red. This Red color would be projected on the eyes during the correct time, according to tidal actions of the sun and moon, and the aura would absorb the necessary energy to stimulate and balance in the direction needed. This definitely worked and the results are recorded in history. However, indications given by Steiner's teachings show a different approach. According to this system: "Colour treatments are more potent if contrast re-actions are used. For example, red and blue may be used to correct short or long sight by a rhythmic succession of contrasting experiences of first one colour, then the other, ending with the one most needed. Blue lures the vision outwards, and so helps short sight; red drives us back into ourselves, so can help to correct long sight. Activity in the eye can be increased by a rhythmic and balanced alternation." (4)

We give Dinshah credit for producing equipment which will provide the twelve main points on the oscillatory spiral of light and by providing us with the color's relationship to our body's form and function. Dinshah like Goethe was a great Scientist who blazed a trail for others to follow. We must always be aware that advancement can be made on all fronts. There is no stasis in this pulsating universe.

This manifestation we find ourselves within has the property of appearing predominantly physical. The needs of the physical body usually come before the needs of the spirit. This is true as far as our immediate incarnations are concerned. On the paths we tread through space and time the spiritual will be seen to be predominant as it survives death, whereas the physical body does not. We must give up our misconception of relating light to good and dark to evil. Evil, or disease, is a situation of imbalance. The physical plane is grounded, we deal with hard realities. In the light we can see, in the light we absorb the energy to grow. In the darkness we rest and rejuvenate. With darkness we are dealing with an abstract space and it is quite easy to project our fears and uncertainties into this ungrounded abstraction. The power of the etheric is such that the fears will take real form and eventually manifest in the physical. The rampant evil in our world today (war, thievery, slavery, deforestation, uranium mining, etc.) emanates from an imbalance of the planetary mind of which we are all a part. It is a direct result of the disconnection of the physical and the spiritual such as the fact that we have science and religion working in opposing directions, and both opposing progress. When these two disciplines are able to reform and interlock like the triangles of color then we will find ourselves on the spiral path of planetary harmony, flowering in the Clear Light of the Creator.

(1) SENSITIVE CHAOS - The Creation Of Flowing Forms In Water & Air, by Theodor Schwenk; Schocken Books, New York.

(2) ORGONOTIC LIGHT FUNCTIONS by Wilhelm Reich, M.D.; Orgone Energy Bulletin, Vol. 1, No. 1; Orgone Institute Press, 1949.

(3) HIGH ALTITUDE UFO PHOTOGRAPHY by Trevor James Constable; Journal of Borderland Research, July-August 1976, Vol. 32, No. 4; Borderland Sciences Research Foundation.

(4) COLOUR AND HEALING by Gladys Mayer; New Knowledge Books, Sussex, England.

UNDERSTANDING RADIONICS

Roger Calverly

Radionics is sometimes defined as "a form of healing using an instrument and the sensitivity of the practitioner to detect and rectify any imbalance in the energy fields which are associated with all forms of life." During the analysis stage of radionic work, the sensitivity of the practitioner is amplified by the use of a pendulum or stick pad. A series of questions is posed about the patient, using a blood spot or hair sample as a 'witness' and the practitioner's own neuromuscular reactions when amplified by the pendulum will indicate the answers "yes" or "no". The radionic analysis is not a medical analysis in the strict sense as it is assessing the energy-body of the patient, not the physical organs. By identifying energy imbalances and disease patterns at the pre-physical level, radionics is able to recognize the underlying causes that later manifest as physical conditions.

A radionic instrument is used by the practitioner, and it often has a series of dials on which the vibrations characteristic of various parts of the body and various diseases are expressed as numerical values. In some instruments, a geometric symbol on a card is used rather than a numerical rate. In both cases, the instrument is used rather than a numerical rate. In both cases, the instrument helps to fix and hold the thoughts which the practitioner is using during the analysis stage. When the time comes for treatment, the practitioner may set up other rates expressing the healing energies which he wishes to direct to the patient. The healing is done at a distance, and this aspect of radionics is one of the most difficult aspects to understand theoretically. To understand how healing at a distance can be effected, the concept of a "field" has been developed, and it is now an essential part of the theory of how radionics works.

It is a proven fact that an action at one place may trigger a happening at another location without any known intermediary. To the logical mind this seems impossible, and so the concept of a field has been developed, a field being an intermediary connecting the two phenomena. The simplest example of a field is seen in the pattern formed by iron filings under the influence of a magnetic source of energy. This suggests that a field is not only an arrangement or configuration in space, but also an energy pattern. The fields which have been investigated by science are mostly associated with electro-magnetic phenomena such as wireless waves, X-rays and light rays, including infra-red and ultra-violet. These waves all vibrate in a medium other than air, and can be demonstrated to occur in its absence. The term "ether" has been used to designate a medium capable of carrying such vibrations, and pervading all of space.

As early as 1935, in his Electro-Dynamic Theory of Life, Professor Harold Saxton Burr proposed that all living organisms have electric fields which govern their growth and decay. Since these fields control life, they are called life fields, or simply, L-fields. Like the fields already known to physics, the L-fields obeyed the laws of nature and were influenced by various forces and energies. Dr. Leonard J. Ravits, the well-known research psychiatrist, discovered that strong emotions can cause a voltage rise of as much as from 15 to 50 millivolts in the L-field.

According to Burr, thoughts which induce emotion are more important as stimuli to the human nervous system than other types of stimuli, and L-field voltages reflect mental and emotional states which can actually be plotted in graph form. Burr argued and proved that one field cannot exist within another field without an interaction between them. Detailed research done on a number of trees over a 30 year period revealed that the L-fields of the trees changed with sunlight, darkness, sunspots, magnetic storms and cycles of the moon. The key point for radionics is that human L-fields also exist within the larger fields of the earth, and are affected by changes in these larger fields. It has been known for millennia that the mind affects the body, but Burr's work provides us with a convincing model of how the mind affects the body.

In his Report on Radionics, Edward Russell has argued that we see all around us evidence of organization in time or in space, and that all organization is "the product of some intelligence or mind." He cites the evidence of how thought at one point can produce an effect (usually another thought) at a distant point, and shows that thought behaves like a field. The term "T-field" was used in his work Design for Destiny (1971) to designate this behavioural aspect of thought, which he finds to be "as much a reality as an electromagnetic field, though quite different from it..For T-fields are non-physical, non-spatial, and can traverse space. They can assume any shape - from that of a microscopic dot attached to a brain cell to that of a field which can extend indefinitely in space." Russell describes Nature's archetypal patterns of creation as being her 'blueprints of thought' which maintain organization and pattern in matter. The human body has its O-field (organization-field) and within that O-field, it has sub-O-fields for the various organs and cells.

The theory of fields is basic to understanding radionic diagnosis, because the patient's 'witness' puts his various fields in touch with the practitioner's fields, so that the practitioner may use his radiesthetic ability to find out where energy imbalances exist within his patient. During radionic analysis, the practitioner asks a series of questions, and when the answer is in the positive, his energy field registers a subtle neuromuscular response which is made evident to the conscious mind by an amplifying device like a pendulum or stick-

pad. The analyst's field comes into resonance with the patient's field, and with accurate questioning, focused by the help of the rates set up on a radionic instrument, an unlimited amount of information may be transmitted. The healing process is also conditioned by the existence of fields linking the practitioner and the patient. The "action at a distance" is actually the introduction of a message or signal into the fields of the patient reminding the body of how to adjust its own energy imbalances. The practitioner, through the witness, is in resonance with the patient's field and can instruct it as needed, no matter how far away the patient may be. Again, radionic instruments are used to set up a configuration of the healing instructions using numbers or "rates" on dials, or geometric patterns encoded on cards. These serve to fix and to hold the instructions. Some healers who have unusual powers of concentration or special E.S.P. development are able to dispense with instruments altogether, which suggests that the instrument is a model of the thought and energy-makeup of man himself.

The signal sent out by the practitioner is an encoded reminder of what the patient's body should do to heal itself. All healing is really self-healing. The radionic means which the practitioner uses, including his numerical rates or geometric card patterns are simply triggers which put the self-healing process to work in the patient. A wide variety of healing energies are used by radionic practitioners, including the vibrations of homeopathic medicines, the twelve biochemic tissue salts, Dr. Bach's flower remedies, the energies of gems, and colour - in a wide variety of shades. Sometimes the numerical rate or the card pattern which represents perfect health for an organ or system is used as the 'message' or 'healing instruction.' But the radionic practitioner may recommend other therapies such as diet adjustment, physical manipulation, fasting, or an exercise routine, and he may refer patients to specialists in these areas as the need arises. The key factor about radionic analysis and treatment which makes it a superior form of healing is that it sees the patient as a whole, not as a series of unrelated parts. It sees symptoms as being clues about the nature of underlying causes, and attempts to get at these underlying causes and to eliminate them. The same symptoms in different patients may be indicative of different underlying causes - a fact which conventional medicine usually does not recognize, and usually is unable to deal with. By working on the energy body, it is frequently possible to discover illness before it has made itself obvious in the physical body, and treatments given to the energy-body leave no harmful side effects such as we frequently find in allopathic medicine. Radionic treatment may be used in conjunction with other forms of treatment, and may be given to animals and even to crops, which adds up to a tremendous scope of application.

Modern medicine has for the most part kept pace with modern scientific thought and practice. But radionics goes one step beyond both and studies not merely the physical body, but the

interface of physical reality with thought and energy. Science itself has, of course, come to the point where it regards matter as solidified energy. We know that energy organizes itself in different ways, and behaves in different ways, and so does matter. Each of the physical organs within the human body has its own shape and function and its own energy-level. In fact, there is an energy-body which surrounds and interpenetrates the physical body, and this energy-body, sometimes called the etheric body, or the etheric-double has its own anatomy which is quite important to radionic theory and practice.

For information about the etheric body of man, and other subtle bodies which are composed of still more refined substance, such as the astral body (corresponding to the emotional life) and the mental body (corresponding to the thought capacities), we rely upon the evidence of clairvoyants who are able to perceive dimensions of reality not normally visible. Here radionics parts company with science and conventional medicine, where the evidence of the senses is considered the final validating factor. Radionics draws on a very ancient body of teaching associated with mystical experience in the East and in the West, as well as on the experience of those who can perceive at the etheric level, and finally on the practical validation of experience itself, when it accepts the existence and functioning of the subtle bodies of man. Many radionic phenomena must be accepted simply because they work.

There are three principal channels through which life energy flows in the etheric body: ida, pingala and sushumna. The sushumna is the most important of the three channels, carrying the life current in the middle of the spinal column. Other subtle nerves channel the prana or life energy throughout the entire etheric body, and thence to the physical body. The subtle nerves are called nadis, and when they are unblocked the energy of the etheric body is maintained in a state of equilibrium and the health of the physical systems and organs is sustained at an optimum level. Where energy is blocked, a condition of congestion may result behind the impediment. This may build up and create erratic energy patterns or overstimulation. Blockages may be caused by the physical pathology, or by chemical pollutants, or they may be a result of miasms, or taints in the subtle body which predispose it to certain kinds of disease. Subjective conditions such as inhibition and repression may also create unhealthy energy patterns which can cause the endocrine glands to malfunction.

The way a person thinks is largely responsible for the harmony of his emotional life, and disharmony of the emotions is a prime cause of disruption of energy in the etheric body, or as Burr would term it, the L-field. Radionics must take such factors into consideration both at the time of analysis and at the time of treatment. Emotional and mental disturbances may be the prior causative factor in many energy imbalances and in many

resulting physical ailments, and if these pre-existing conditions within the astral or mental bodies are not treated, they may continue to disrupt the energy flow and the energy-balance of a patient even after healing has been brought to bear at the physical-etheric level. In such cases, complete restoration of health at all levels is less likely than would be the case where the energy irregularities in the higher bodies had been cleared up with the right corrective vibrations in one form or another. The Bach Flower Remedies in particular are useful in treating emotions and states of mind.

Ida, pingala and sushumna meet together at six different places along the spinal axis. Each meeting place forms an energy centre, called in the traditional Sanskrit terminology, a chakra. The chakras are circular in shape, resembling whorls of energy. There are centres at the base of the spine, in the sacral region, at the solar plexus, at the heart, throat, forehead, and above the crown. When the chakras are functioning properly, they are taking in energy in the form of prana and colour and distributing it to the various organs and systems of the physical body. It is not only the etheric body which has chakras, but also the higher bodies, a point not often considered in conventional radionics, because most healing centres on the etheric body. Once the prana enters the chakra, it is transmitted from this point by a process of differentiation into secondary energies which travel along the nadis, and cause responses in the physical nervous system. From here, impulses are passed on to the endocrine glands, each of which is related to a particular chakra. The wellbeing of the chakras affects the functioning of the endocrines and they, by the regulation of hormonal activity, affect the physical and emotional state that a man will be in at any given point.

In radionics, it is possible to treat a disorder of the physical system through the chakra involved. If, for example, the lungs require a certain colour or gem-energy, this may be directed to the throat chakra which governs them, and thus the energy will be registered in the appropriate portions of the physical anatomy. Diagnosis of the chakras and the subtle anatomy helps the practitioner to understand why the physical body is working the way it is. Frequently one finds that the physical pathology present in a patient relates directly to those chakras which are not functioning properly, either because of blockage at the entry or exit points of energy, or because of overstimulation or underactivity.

Radionics has come a long way from the time when Dr. Albert Abrams began to use the human body as an energy detector. Ruth Drown gave it a decisive shaping influence when she developed the use of the stick pad, originated the characteristic dials of radionic instruments, and began to treat at a distance through the medium of a witness. To the work of George de la Warr and his wife we owe the standard of excellence which has become normal in modern radionic instruments, the

refinement and enlargement of the numerical rates, and a great deal of enlargement in the theoretical outlook of the field. David Tansley has produced the most widely read literature on the subject, and has popularized the modern approaches to treating the subtle anatomy and the chakras, while Malcolm Rae, with whom he worked at certain periods of time, has originated a whole new line of instruments which use geomagnetic patterns instead of rates. Rae and Tansley have given considerable refinement to the process of radionic analysis through their theoretical work, and through the development of instruments such as the Base 44 instrument, and the Centre Therapy instrument.

Radionics will continue to grow and develop in the future. And this will be necessary to keep pace with the changes which man himself is going through. The pace of modern life brings numberless pressures to bear on the average citizen, particularly in the West where technology is changing and living patterns are being disrupted. The new technologies have put us into contact with substances and energies whose subtle effects on health are only now being glimpsed - the risks from low-level radiation, and the noxious rays of television and fluorescent lighting being only a few. But beyond this, it is the evolutionary nature of man which necessitates constant growth in the healing art, and constant widening of the philosophy underlying healing.

Human awareness is constantly growing and expanding, individually among those who seek to expand awareness through such disciplines as meditation and yoga, and collectively as a result of the scientific revolution which constantly widens the way men think. Radionics is at the frontier where science and E.S.P. meet and intermingle, and its practitioners must be abreast of developments in both fields. Never has there been such a need for comprehensive, holistic remedial approaches to balance human energies at all levels from the physical to the emotional and mental. Radionics holds out the promise that man may be able to develop and apply the healing faculty within him with a scope which is proportional to the imbalancing energies which he has unwittingly unleashed through his new technologies. Radionics provides hope that the challenge of the future can be met, and that a better, healthier world can be created from the roots of our present health crises.

THE CONSTITUTION OF THE SUN AND STARS

Carl Frederick Krafft

According to the accredited science of today, the sun and stars are gaseous bodies with temperatures of millions of degrees inside. The scientific profession is so sure of this that anybody who thinks otherwise is simply not given a chance to be heard, although a simple calculation under the gas laws will show that any celestial body similar to the sun, and with a density approximately equal to that of ocean water, would explode immediately if heated to a temperature of millions of degrees centigrade.

Our sun is just an average star, and a mere glance at it should be sufficient to convince anybody that it cannot be gaseous inside. A ball of gas would not have a sharp circular outline like the periphery of the sun. Gaseous clouds do exist elsewhere in the universe, but they do not appear as suns or stars. The periphery of the sun does, however, bear a remarkable resemblance to a horizon of ocean water. This conclusion is further corroborated by the density of the sun which is just slightly greater than that of ocean water--exactly what would be expected if the sun consists mainly of water, but with a solid core at the center.

If the heat from the sun really came from a hot interior, then as the late Dr. Hermann Fricke of Germany has pointed out, sunspots should be incandescent and not dark. Numerous photographs have been taken of sunspots from all angles, and these photographs show beyond any possibility of a doubt that sunspots are nothing else than splashes in the luminous layer. The luminous material is thrown to the sides, leaving a wide open hole at the center through which the dark interior of the sun can be viewed--perhaps not absolutely dark, but much darker than the luminous surface with its temperature of 6000 degrees. According to all authentic science of today, we are supposed to believe that within this dark interior there is raging a temperature of 50,000,000 degrees! It is just too much for the writer to swallow.

The heat of the sun is probably generated by bombardment of its outer atmosphere by cosmic rays consisting of subatomic particles drawn in by the gravitational force of the sun. We have a similar heated layer in the upper atmosphere of our earth where cosmic ray intensity is much greater and the temperature is hundreds of degrees higher than at the surface of the earth. Since the gravitational force at the surface of the sun is thirty times that at the surface of the earth, it is not difficult on this basis to account for the 6000 degree temperature at the surface of the sun, without making any fantastic assumptions of interior temperatures of millions of degrees.

A hot outer atmosphere would not necessarily heat up the interior of the sun, as has often been argued. Heat can travel only by radiation, conduction, or convection. Radiation is stopped immediately by even the thinnest layers of opaque material, and conduction through thousands of miles of poorly conducting material is a very slow process. There remains then only convection, and in a gravitational field the effect of convection is always to produce stratification--the hotter masses rising to the top and the cooler masses sinking to the bottom. If now we make the reasonable assumption that the effect of convection is greater than the combined effect of radiation and conduction, then any large celestial body with sufficient water on it should act like an automatic refrigerator--its interior remaining cool indefinitely notwithstanding the generation of heat on its surface. Some of the water on the

surface of the sun will undoubtedly be evaporated by the intense heat, and may even become dissociated into oxygen and hydrogen, but the reverse of these processes will also occur, until a condition of equilibrium has been established. The ultimate result will be a gigantic turbulence on the surface of the sun, such as can be observed any time, but which will leave the interior of the sun unaffected.

The cosmic rays which are drawn in by gravitational force consist mainly of subatomic particles such as protons, electrons and neutrons. If these are clusters of vortex rings which were produced in the interstellar ether by the turbulence of light and heat waves, then we have here a cyclic process which could go on indefinitely. The energy which leaves the sun and stars in the form of light and heat radiation is again returned to them in the form of cosmic ray particles, and any matter which is annihilated during this process is similarly returned from interstellar space.

Annandale, Virginia

February, 1961.

NOTE: Sunspots are not caused by explosions from inside the sun because they would then be covered by huge clouds similar to the mushroom clouds of atomic explosions.

FURTHER COMMENTS:

Recent photographs taken from a high altitude balloon have shown most clearly that sunspots are definitely splashes, and a well defined splash cannot be produced in a gas but only on the surface of a liquid. The surface of the sun, except for its gaseous atmosphere, must therefore be liquid.

The darkness of sunspots has at times been attributed to large masses of condensate plunging into the hot gaseous surface of the sun and cooling the gases locally. If this were the true explanation, then it would be difficult to explain, not only the splash itself, but also the granular formation of the luminous material which has every appearance of clouds in the sun's atmosphere. If the heat and light of the sun really does come from its interior, then it would be the spaces between the clouds which should be luminous, and not the clouds themselves. Photographs however have clearly shown that whenever adjacent clouds (luminous granules) leave tiny openings between them, the space behind them thus exposed is always relatively dark--never luminous or incandescent.

The luminosity of these cloudlike granules is probably produced by cosmic protons and neutrons drawn into the sun's outer atmosphere by gravitational force and condensing into helium ions or atoms. We do not need to assume that such cosmic protons and neutrons are in every respect identical with the protons and neutrons that have been produced in physical laboratories, and the extreme conditions of temperature, pressure, electrification and neutron concentration that exist on the surface of the sun have never been duplicated simultaneously or even approximated artificially. Let us therefore not be so rash as to say the formation of helium in the atmosphere of the sun from cosmic protons and neutrons would be impossible.

From THE STRUCTURE OF THE ATOM by Carl Frederick Krafft, BSRF, 1987.

Clips, Quotes & Comments

by Tom Brown

UFO BREAKTHROUGH?

"There is no proof." --Wilhelm Reich

Researcher William L. Moore has sent us a series of photocopied documents which appear to be Top Secret National Security documents indicating that our government had, in the 1950s, full knowledge of a crashed flying saucer in Roswell, New Mexico. If these documents are real then it is a solid block of evidence indicating a government coverup in the UFO field. If they are fakes, manufactured to misdirect attention or whatever, then they are probably part of a government disinformation campaign. Who needs solid evidence of the government coverup? The very basis of modern government is suppression, otherwise we really would live in a free world, and not in just a consumer oriented world with the product name "FREE." Of course, if the government has UFOs they would cover them up to the public. Since they tell us nothing it means they probably have everything. That is the rule of thumb when figuring out what the forces in control are up to. Too many people have seen UFOs, too much mysterious activity has been going on in our planet's skies since our species began recording their observation of this planetary environment.

Do we wish to make our living chasing ghosts or is there some more important work available at this point of space-time on our planet? William Moore is certainly to be commended for his dogged determination to uncover the facts and we will all certainly benefit from his work--it is good to know the facts. But, someday Mr. Moore and all the other "hard-fact" researchers will have to face the fact that there is more to the universe than material substances. How about Trevor Constable's UFO critters? No one seems to believe in that aspect of the UFO field or to be willing to face the tremendous possibilities it presents. Borderland has presented the world with the Etheric origin of UFOs since the 1940s, and it is fully possible that craft from other planets visit us at their discretion, using etheric energy such as orgone for propulsion. With proper researches the etheric, living side of the universe can be found, but not in the Library of Congress or in an unmarked package delivered by people of dubious origin and purpose.

William Moore publishes FOCUS the Newsletter of the Fair-Witness Project (\$20/year), 4219 W. Olive St., Suite 247, Burbank CA 91505. Focus is a most interesting newsletter and is recommended to researchers everywhere who wish to know the facts of UFO research. Past issues have included some very interesting information including an update on the Edwards AFB landing in 1954 indicating that President Eisenhower did make an undercover trip to the Air Force Base at the time, covered up by a supposed trip to the dentist.

BOOKS RECEIVED -- We get a lot of mail and can't answer it all but we will start listing interesting books and magazines received so our members may check them out. *** From Japan we have received MERIDIANS AND KI - Measurements, Diagnoses and Treatment Principles with the AMI by Hiroshi Motoyama. The AMI appears to be a radionic oriented, computer controlled instrument for testing the energy levels of the acupuncture meridians in the human body. This book presupposes a certain knowledge of the AMI, but contains quite a bit of interesting info on energy levels of the acupuncture system of the body. The book is published by The International Association for Religion and Parapsychology, 4-11-7 Inokashira, Mitaka-shi, Tokyo 181, Japan. Or contact the California branch of I.A.R.P. at 399 Sunset Drive, Encinitas CA 92024. Write for prices and a list of books.

*** From Lindsay Publications Inc. (PO Box 12, Bradley IL 60915-0012) comes THE PERPETUAL MOTION MYSTERY - A Continuing Quest by R.A. Ford. This looks like a most interesting compilation of files and data concerning the search for perpetual motion. It has info on theories, natural anomalies and other information which is hoped will stimulate further research into this area. It contains reprints of the old Perpetual Motion Journal which includes articles by Gaston Burrige who wrote some interesting material for Borderland in Meade Layne's day. List price is \$9.95 plus postage. Write Lindsay Publications for their current catalog. They publish some very interesting do-it-yourself books on subjects like machining, drop forging, electrical generation, etc. Many are reprints of old manuals.

HYDROGEN A COMPOUND

"Scientists now find the atom a compound, and they are studying its thousandth part. Prof. Pickering, of Harvard, as the result of an intricate study of the spectrum of lightning flashes, has come to believe that hydrogen, instead of being a simple element, is made up of at least three components. This and other recent discoveries lends new probability to the old theory that the chemical elements are not fundamental, but that they are themselves made up of various primary simples combined in their different proportions."
-(Popular Science News)

Hitherto, hydrogen has been regarded by modern chemists as the original element. It posses the least weight of all so-called elements, and the atomic weights of all other elements are usually calculated relative to the atomic weight of hydrogen, which is, arbitrarily considered, =1, or one unit. During recent years, a few pioneers of science have expressed their doubts in regard to the integrity of the hydrogen atom; and Prof. Pickering is one of these men. His researches will no doubt substantiate the views of occult science, and lead up to the acceptance of the truth of etheric atoms of lower or higher degrees or vibrations.

(Source: The Temple Artisan, Vol. III, No. 1, June 1902 in an article titled "The Borderland of Science.")

FULL SPECTRUM LIGHTING

In light of the knowledge gained by studying Goethe's color science I am beginning to wonder about the so-called "full spectrum" fluorescent lights now becoming more popular. Which spectrum are they using? As far as my researches show, there is no color in light unless filtered or manufactured in some way, such as by a fluorescing gas. The spectral lines seen in the spectroscope do not show the component of light, but merely activities creating the light, or being created by the light. It would appear that the media excited to produce the light would promote a predominate spectral line. I may not be right but that is how I see it now. I have a personal dislike for fluorescent lamps of the variety usually found in offices and I have never felt good around them. However, it seems that "grow-lights" will make plants grow quite well.

Jim DeMeo wrote an excellent article on the subject in the Journal of Orgonomy (Vol. 9, No. 1) titled THE EFFECTS OF FLUORESCENT LIGHTS AND METAL BOXES ON GROWING PLANTS. In this article he relates experiments done by growing plants in sunlight with a fluorescent source nearby and shielding the plants with cardboard and lead. The light was not used, just the energy from the fluorescent source. The plants did not grow in a healthy manner, with the cardboard shielded plants doing worse than the lead shielded plants. He relates this to an oranur (orgone-anti-nuclear-reaction) type effect, possibly

accelerated by the experiment's proximity to a nuclear power plant. DeMeo's article reports that Dr. John Ott was able to eliminate most of the life-negative effects of the fluorescent bulbs by placing thin lead shields around the cathodes of the tubes. DeMeo found that the oranur effect from the fluorescent lights apparently came through the lead also, accelerated by the nearby nuclear reactor.

In conversation with Sarosh Dinshah Ghadiali he provided me with a spectral analysis of two lights--a cool white fluorescent and a Durolight (tm) Full Spectrum fluorescent. He indicated that the two bulbs had basically the same spectrum with predominant Orange, Green and Violet spectral lines, though the full spectrum bulb had a wider Violet section in its spectrum. In 1947 Sarosh's father, Dinshah P. Ghadiali, answered an Allentown PA member's question about working under fluorescent lights saying thus, "Fluorescent Lights do not have the complete seven color Spectrum as in Nature. All such lights are doctored and deficient in some division of the full color Spectrum. They are financially economical, but, are on the human body like drinking drugs. Take your choice--either money or health. I do not use them. When I am through with lawsuits I shall give you the perfectly Natural Light--as close to the Sunlight as possible." Dinshah never got his full spectrum bulb together and it would have been incandescent rather than fluorescent. The tuned glass slides of Dinshah's color projector will not match under fluorescent light, but are tuned to a tungsten filament incandescent.

As this information is being typed we have just received a package of material from Dr. John Ott concerning his researches with various fluorescent lights. Last issue's ROLE OF LIGHT IN HUMAN HEALTH GIVEN NEW IMPORTANCE article gave a brief report on Dr. Ott's work and we are most appreciative for receiving a more complete view of these researches. Preliminary observation of the material shows it to be a series of controlled experiments with full spectrum fluorescents versus pink fluorescents. These researches document the fact that the full spectrum lights have incredible benefits over the regular fluorescents, though I still have questions concerning the ionizing radiation. Perhaps this material will answer the question once I get through it all. Next issue we will report on more of Dr. Ott's experiments with lighting and its effect on health.

I have read that video terminals, such as the one that this Journal is typed into, produce an ionizing radiation which is detrimental to the human body. The video screen apparently "sucks" the charge out of the body, an effect easily felt after 6 hours of typesetting. I also recall, but cannot find the source, that Wilhelm Reich indicated that fluorescent lights decalcify the body. According to Dinshah Calcium is on the Orange color wave. Perhaps something in the bluish appearance of the bulbs in combination with positive ionization will "suck" the calcium and/or other energies from the body. Go to a big city and watch all the people leave the big buildings after work. You will see a sea of blank faces, void of natural energy. Perhaps fluorescent full spectrum lights are a step above the regular fluorescents, and Dr. Ott's well documented researches show this to be the case, but what are the long term effects of the ionization of the gas? Can shielding the cathodes prevent all of the radiation effects? As Jim DeMeo indicates in his article, the proximity to the deadly side of orgone energy (oranur or DOR), such as is found near nuclear plants and large industrial conclaves and big cities, will further excite the health damaging effects of the ionizing radiation, even to where they will penetrate a lead shield. There is certainly room for more research here. Light is health and a healthy body is a great home for an inquisitive soul. This is something we should all be concerned about.

This information only opens up more questions and if any Borderlanders have any input on this subject it is most welcome. I would appreciate any and all relating information to be sent in to BSRF headquarters for publication. If you can put together an article on the

subject then all the better. There are several full spectrum fluorescent lights on the market and I'm sure that many of the questions raised by the above information can be easily answered. We may not know unless you tell us. For the sake of progress send the info in. We are not looking for sales pitches on full spectrum lighting but verifiable researches answering the information presented above or clearing the matter by further elaboration. If you want to send a bulb for testing we will certainly do some controlled experiments, such as indoor versus sunlight for growing food.

GROWTH OF PLANTS UNDER COLORED LIGHTS

"M. Camille Flammarion has made many interesting experiments on the growth of plants under different coloured rays. In one experiment he took young lettuces from the same plot of ground, and all the same size. His results showed that--

Under red glass lettuce grows four times as quickly as in direct sunlight.

Under green glass lettuce grows slightly quicker than in sunlight.

Under blue glass lettuce becomes very stunted.

In another experiment he worked with Indian corn:

In sunlight one plant grew to 25 inches.

Under red glass one plant grew to 18 inches.

Under green glass one plant grew to 8 inches.

Under blue glass one plant grew to 6 inches.

Beans flourished under white and red glass.

Beans perished under green and blue glass.

From the above it seems that blue glass is bad for plants; but this is not always so, as is seen from the experiments of General Pleasanton, where he grew the best grapes in his district by using alternate white and blue glass in his greenhouses. Babbit states that blue light develops germination of plants, while red and yellow develop animalculae. Yellow rays cause carbon to deposit from the air, and so form the woody fibre of plants. Red and yellow cause seeding and fruitage."

SOURCE: The Symbolism of Colour by Ellen Conroy, M.A.; Wm. Rider, London, 1921.

AUTHORITIES

Research into the Borderlands of Science requires an open mind and a willingness to go beyond one's belief system. It seems that once one is an "authority" in their field they end up defending a position rather than allowing further breakthroughs. We should be ready to learn every day. One field where there is no definitive authoritative stance is Radionics, though many feel that they have produced such a center. There have been gifted and insightful workers in this field but it seems that in our present times radionics is seemingly pawned off as some sort of psychic ability or wild talent emanating from the mind. While this may be true in a sense it only covers spurious activity and not a graded level of learning based on spiritual principles. This is not meant to judge all workers in the field because the dedicated ones will progress--perhaps impeded by the side shows--but progressing none the less. I feel that there is a solid basis on which radionics functions. This is for detection of the vibrational rates of elemental or etheric substances, or their myriad of combinations.

In Borderland's recently reissued paper WILL CANCER AND POLIO YIELD TO RADIONICS, the author Norman K. Edgars points out the awareness of many of the early workers in radionics who withdrew their equipment from the public because they saw in it the potential for misuse. A solid code of ethics is needed in the Borderland fields of research. Suggestions and comments are most welcome on this and the Journal can act as a bulletin board for further ideas into this area. This is needed for several reasons. One is that the various groups and organizations working in this field will have the respect of professional integrity as a basis of relationship. Second, those with unverifiable and wild claims and questionable practices will stand out and be seen for what they are. Third, the searching people will not be misled. All of these together will provide a respectability needed to further the research into radionics. I am not saying that we have the answers, I am just suggesting that which will benefit the work of all serious searchers and researchers.

RESEARCH INTO THE BORDERLANDS

In many ways we are aware of unseen forces controlling our various level of environment. These unseen forces control the growth of life and are an integral segment of reality. These forces are interpreted with various methodologies and belief systems and it appears as though very little progress is made toward an integration into a workable, expandable system. Researchers who have produced definite results have attached their own name to the unseen energy. Wilhelm Reich discovered the orgone energy, and had his share of solid scientific breakthroughs which have yet to be appreciated by the mainstream. However, the energy was there long before Dr. Reich's observational capabilities rose to the proper level. Dr. T. Galen Hieronymous, a true pioneer in radionics, has termed the energy--Eloptic--for electrical-optical energy.

Can there be any difference between the energies of these two researchers, especially in light of Trevor Constable's COSMIC PULSE OF LIFE wherein he shows one how to develop the capabilities to discern this energy in its natural state? Trevor has related the Orgone energy to the chemical (or sound or number) ether. This ether controls the formation of chemical substances, the direction of atmospheric chemistry and is the basis for carrying sound. In Cosmic Pulse Trevor shows the direct relation between the number ether and the radionic instrumentation of Dr. Ruth Drown, thereby allowing us to understand the direct cosmic connection between the rates used by the instrument and the form and function of the body. Reich, Hieronymous, Drown and others are all dealing with the same living energy, though in different manners. Constable uses this living energy in his researches and the fact that he produces real results with further indications for progress gives his observations credibility. He has already referenced all of his work to the ethers.

The concept of the ethers and elements has been with us for thousands of years. Why do we need to attach new names to the energy. We already have enough names for it - chi, prana, od force, orgone, eloptic, etc.--names all derived from real demonstrative practices. Nowadays we get new names for the etheric with purely theoretical and no experimental backup--names like "scalar waves", "soft particles" and tachyons. Why don't we drop these names, other than for particular reference purposes and individualized or particular activities, and adopt the time honored concept of the ethers. They are easy to understand (just try!), they are directly relational to real phenomenon and they are a gateway to further breakthroughs in Borderland Sciences. This will give us all a solid groundplan to work from and by interacting with the same terms we can build a solid body of material for future generations to understand and use. If the current trend of new names for each discoverer continues we will have lots more names and little understanding of the whole manifestation we all find ourselves within.

OUR PATH THROUGH THE ETHERS

Our culture has evolved a science and philosophy which views the world through a single color-blind eye. To study the nature of manifestation science dismantles living forms to understand their components parts and somehow hopes to eventually find the final "building block" of Nature. Orthodox medicine follows suit by treating symptoms of disorder rather than cause. Neither of these disciplines allows for a grasp of "the whole," nor do they allow for subjective methods of observation. This trail of "progress" has led to the manifestation of nuclear power plants, chemotherapy and a myriad of other unnatural forms and forces. The telescope and microscope serve as blinders to the process of the universe, though they are quite useful in their place. Science is insistent on being an observer rather than a participator. Participation is essential as we are an integral part of the universe and therefore an integral part of scientific inquiry.

We are here concerned with direct experience of our manifestation whereby we may find the natural forces and forms essential for a beneficial society. We begin with a view of the ancients who were in much closer touch with nature. The ancient elements Earth, Water, Air and Fire were directly experienceable to our forebearers. Earth and Water were considered manifest while Air and Fire were considered unmanifest. Earth was considered manifest because it was the cosmic foundation for all solids. Water because it was the foundation all fluids. Air was considered unmanifest because the ancients didn't think of the air they breathed as a gas. The clouds were considered an extension of the watery element. The air they breathed was the living force of the creator and as such came from the unmanifest realm. Fire was also unmanifest because it was a liberation of a cosmic principle from the Earth element, an idea more true than you might think right now!

The four elements, though, are considered central, that is, they are environmentally placed in our earth sphere and are relational to gravity. The four ethers are the peripheral forces, from the outermost reaches of the universe and are relational to levity. The Four Ethers are given as the Warmth, Light, Chemical (or Tone, Number), and Life (or Word) Ethers. As humans we walk the balance between the ethers and the elements. We observe that the lower forms of life, animals, plants and minerals, each in succession, have less and less of the full etheric and elemental mixture. The lowest element (Earth) contains the highest ether (Life) therefore the minerals of the earth hold life in its latent, but potent stage. The plant kingdom is seen as the elemental forces, flowing in the plant liquids (Water) being drawn toward the periphery by the ethereal forces of the Light Ether. When a plant dies the ethers return to their unseen realm while the elements return to the earth and we can see them disintegrate into the basic components if we spend the time. This happens also in the animal and human kingdoms. Humans have the most developed spirit which animates the physical and ethereal bodies and depending on the persons life one or the other or both may become more developed. When we die we lose the elemental body to the earth for renewal and likewise the ethereal body returns to the periphery for renewal but in a different manner.

THE FOUR ETHERS

Knowledge of the ethers exists in the method of observation. The study of material which has guided others to achievement will open the mind to becoming a participant in research rather than an observer. Observation will show the mind the ethers as a component of our makeup. To provide Borderlanders with the tools to use the mind in gaining real results we are expanding our selection of books available from other publishers. One book we are quite pleased to make available is THE FOUR ETHERS by Dr. Ernst Marti. This covers contributions to Rudolph Steiner's science of the ethers.

Chapters include: Concerning the Necessary Distinction Between The Etheric Formative Forces and the Ethers; About the Four Ethers; and The Working Together of the Four Ethers. The book is \$7.95 plus \$2 P&H. Translated from German by Eva Lauterbach and James Langbecker.

BORDERLAND BUSINESS

Keeping Borderland running is quite a job. Correspondence is increasing at a rapid pace, though orders aren't increasing proportionally. We do not have the time to answer all the letters and requests for information from our files. When I took over from Riley Crabb he told me that he barely had time to stack up the incoming material and our volume of input has increased greatly from that time. We do what we can and go on. We are working on more books to publish and we are searching other publishers for books which will provide real progress in research. It would be nice if the flow of cash would increase proportionally with the work load (Meade Layne wrote about the same thing in the 1950s).

Part of our strategy in moving was to do all our printing in house. We leased out a new Ricoh 7060 high speed duplicator to do this with. The machine has caused incredible problems and we may be forced into litigation with corporate responsibility-shirkers who blame the poor printing quality of the machine and the incredibly high misfeed rate on us! This situation has bled the BSRF account dry and we are figuring out how to get around this situation (which we will). We have completely documented our side but we don't have the resources or time to go on the defense. To compound this situation a portion of our bulk mailing of catalogs got bogged down in the U.S. Postal Swamp for several months after printing delays because of copier problems. We have about \$10,000 (retail value) worth of books in inventory and if we could sell a few it would help to ease our situation. If you like to read, then now is the time. If you haven't received a catalog let us know now and we will get one out to you immediately.

If the tide doesn't turn in time you may see a reforming of Borderland. My main interest is in keeping the Journal going as a newsletter for members and as a beacon for progressive researchers worldwide. It costs more to run the Journal than we take in on membership fees and that is the reason for running the publishing end of the business--to subsidize the Journal. We may have to begin taking advertising for the Journal (yuck!) which I don't care to do because in research we are always updating and taking theories apart. We would then be reliant on income from sources we are publicly checking out and sometimes refuting--that is biting the hands that would be feeding us. I am all for taking on advertising for upcoming conferences and such, but we will print that info for free anyway if submitted in time. I feel that the subsidizing of the Journal with the mail order business is the only way to keep it going, unless someone out there has a better idea. I just don't feel that advertising should support research, but maybe we have to.

We could do with grants and donations but the average Borderlander doesn't have the extra cash and for many the \$20/year is a sacrifice, and we thank everybody for the support they have given. I know that there are people out there who could help, and we have had people offer and then drop the offer when they found they couldn't get a tax write-off or make a quick profit on us. Well, we could spend even more money getting a Federal exemption but that is just more time-consuming paperwork to do. We need no-strings-attached money but that is a rare item these days. While we have observed big-time dollars go to people with questionable (and non-productive) researches Eric has lived in the back of his car, occasionally working in an overcrowded garage, after abandoning the Integratron due to the steady flow of interrupting energies there. The pictures of the Cosmic Superimposition patterns in the May-Jun 87 Journal were produced with the deck stacked against even having a place to set up equipment. Talk about color on the border!

It is important that I point out that neither Eric, Alison or myself have received any compensation for the work we do here other than a little over \$2000 in rental income last year. Last year we accrued \$1000 per person per month. (Accrual means that it adds up the but doesn't go into our pockets until available.) We stopped doing the accrual this year as there is no need to add up numbers on the books with no cash to back them up. When we have the money to pay for work then we will pay. Till then I guess we work for free. I'm happy with just having the bills paid and keeping the lights lit (even though we have low quality fluorescents until we can afford better), but it would be nice to fill the refrigerator every now and then, and maybe even fund some real research!

MAIL ORDER UPDATE

With the 15% Borderland membership discount on publications we feel we are doing a service by getting books to our members for less than retail price (plus postage which we have to pay to get the books out and handling to pay for the package to put it into). However the 15% discount doesn't leave much for Borderland to operate on and stock the books. In 1988 we will introduce a sliding scale discount starting at 10% for 1 to 4 books, 15% for 5 to 9 books and 20% for 10 or more books listed in our catalogs or price sheets. The 15% discount will remain in effect for all orders postmarked before December 31, 1987. The discount does not apply to memberships or subscriptions to the Living Sphere. Many waive the discount as a donation (thanks!), but feel free to take it.

We are temporarily suspending the sale of equipment such as the Vitic and Eeman screens. These are useful instruments and worthy of research but I would rather tell you how to build them than make them ourselves. We are out of stock on the Vitics but will fill orders on the Eeman Screens and Core Energy Polarizers (an advanced Eeman circuit) which we finally got together as we made the decision to pursue the sales of books as a first priority. (If you are interested in the Core Energy Polarizer send a S.A.S.E or Postal Response coupon for free info or \$30 PP until Dec. 31, 1987). At present we do not have the time or space to pursue the building and stocking of equipment. I would like very much to reintroduce equipment for Borderland Research in the future. It would be nice to be the "Edmund Scientific" of the Borderlands.

My intentions on getting into Borderland Research was to research and write. I never thought that I would be spending most of my time overseeing a mail order outlet, though I get a real thrill by getting more books into print. Between dealing with the business and writing the Journal there is precious little time left to read. I have thought of a way for all you Borderlanders to help. Check out some of the new books we are carrying (as well as some of the regular titles) and write up your comments, books reviews, insights, etc. We can then print these observations in the Journal and stimulate further insights and research. Then we all can benefit from the information raying out from the BSRF sphere of influence. Also, get a friend or two to join BSRF. There is strength in numbers.

BORDERLAND GRAB BAG - To help stimulate the local economy and to make more room to work and get out new information we are offering a grab bag of old, wrinkled, and/or out-of-print BSRF titles and back issues of the Journal. For a \$25 donation you will get an assortment of old publications, back issues and/or new publications with soiled covers or wrinkled pages, shipped book or surface rate. This offer is good until Dec. 31, 1987 and includes surface rate postage worldwide. For a bigger donation we will send a bigger package. Specify that it is for the Grab Bag. You never know what you might get. Also, until Dec. 31, 1987 back issues of the Journal (1972-1985 only) are \$10/year/PP by the year only, no single issues at this price. All 14 years (72-85) for \$100 pp/surface post.

CONTACTS

Contacts is a nexus where researchers and research resources are listed. Listing is free but we reserve the right to edit or reject submitted information. This is your bulletin board--use it! Let them know you saw it in The Journal of Borderland Research.

* Borderland Associate Oralia Lopez, 521 Siber Pl., San Jose Ca 95111, (408) 365-9554 is looking for people in her area to get together with to work on learning how to operate radionic equipment. She has a De LaWarr instrument and could use some helpful hints and guidance on operation.

* NEW AGE WORLD SERVICES & BOOKS, Victoria E. Vandertuin, 6091 Valley View Circle, Joshua Tree, CA 92252. This is an author's and publisher's representative service and also a publisher of various titles. Write for more information.

* BROTHERHOOD OF LIFE, 110 Dartmouth SE, Albuquerque NM 87106, (505) 255-8980, is a metaphysical bookstore and mailorder book service. We have just read their title AGHORA: At The Left Hand Of God which is the story of a "graveyard tantric" from India. It should be must reading for all who feel they have reached some lofty spiritual plane, and it is full of great insights into gurus and new age spirituality in general. Other titles available are on Homeopathy, Flower Essences, Gems, Radionics, Magic and Alchemy.

* PYRAMID RESEARCH CENTER, Box 5271, Ft. Lauderdale FL 33310 is now publishing the "IMPOSSIBLE HUMAN" Newsletter. "The 10% human wanders around unconscious or only subconsciously awake. Learn to use the other 90% of your brain and accomplish the 'Impossible.' Be consciously awake and live!" Issue #1 has articles on "Seeing" With Your Skin, Weight Loss Via Mind Control, Levitation, Self Hypnosis, Magnetic Awareness, and more. Six issues/year \$12 in the US, \$18 foreign.

* SPECIALIST KNOWLEDGE SERVICES, 30 South Row, Blackheath, London, England SE3 0RY. Here is an excellent research source for mail order books on Fortean phenomena, Folklore, Mythology, Esoteric and Magical Orders, Mysticism, Earth Mysteries, Clairvoyance, Quabalah, Esoteric Philosophy, Hypnotism, Parapsychology, Astrology, Ancient Egypt, and much more! Mailings also contain information on various other research groups. Telephone 01-318-1605

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THE ORGONE ACCUMULATOR HANDBOOK by James DeMeo, PhD. Plans for construction of experimental Orgone Accumulators, Blankets and Garden Seed Chargers. \$8.00

THE LIFE OF A KARMA-YOGI - Dinshah P. Ghadiali, published in 1973 on the 100th anniversary of Dinshah's birth, this is an incredible story of an extraordinary man who spent his life serving the suffering with his enigmatic color healing system. A real collectors item.\$6.00



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