

## ***Degaussing for Pain Control - 12/31/97***

**Date: Wed, 31 Dec 1997 09:24:03 -0500  
From: Anonymous (private experimenter)  
Subject: My Experience in Bio-Magnetics...  
To: Jerry Decker**

**Hi Jerry,**

**We chatted some months ago about the Muller o/u machine and I thank you for your information. Now I would like to share some info with you.**

**Another "experimenter" asked me to do some more work with Bio-Magnetics. Specifically, magnets to ease pain....being my elder he suffers more joint pain than I do, but I have my share also.**

**He has been using ferrous magnets to ease hand and wrist pain. I too, suffer the old keyboard syndrome. On returning home, I dug out some of the magnets I was using on my Newman's o/u machine and tried placing them close to my wrist. After some hours the pain did seem to subside somewhat.....**

**Being a student of instant gratification, I began looking for a faster way. I dug up one of the Thumpers I built some months ago and tried that. Not much change. (not instantaneously anyway...) Then it occurred that I might try the Radio Shack audio tape degausser I had in my shop.**

**Bingo.....!!!**

**Almost instant and sustained relief.... Not to be fooled by psychosomatic relief, I waited till the next day to retry. To my surprise I awoke with almost no pain. Later, when the pain became noticeable, I applied the degausser again. Same positive results.**

**My wife suffers severe hip pain in the evenings and I talked her into trying it out before bedtime.....Yep....not total, but, to quote her, "about one tenth of the pain it had been." Next day my shoulders began hurting due to long hours at the desk and I tried an old TV CRT degausser. Same results...**

**Instant and sustained pain relief. The wife (now believing that I'm not as crazy as she had thought) asked to have the audio degausser applied to her shoulder, which had been quite painful for several days..... Once again, instant relief which lasted all day and didn't come back.**

**I am offering this to anyone who would like to try it and see if it works as well for them.....**

**I'd like nothing better than to put a bunch of medical doctors out of business.....**

**They just can't understand non-invasive, non-narcotic pain relief..**

**PS: Will let you know how the Newman machine works out. Just came across some innovations in improving it's operation. Also, plan on trying to work some of the bugs out of Tesla's notes that have survived.**

**I have always admired his work and hope he will eventually get the recognition he so richly deserves.....**

**Also, have built one of the "Experimental Bio-Electric Machines" you posted 10/21/97. So far the results have been more along the lines of stress and tight muscle relief as opposed to relief from Bio-Organism invasion.... All results have been very positive....More later.....**

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**[Return to Thumpy Pain Control Index Page](#)**

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*The BETAR Sound Relaxation System*  
**A Practical Usage of Phase Conjugate Sound  
for Physical Stress Relief**  
by Peter J. Kelly of Interdimensional Sciences

121 Oasis Road  
PO Box 167

Lakemont, Georgia 30552

(shared with KeelyNet courtesy of [Peter Kelly](#) - 01/07/98)

**NOTE :** The term BETAR as used in this document is trademarked.

I started from the premise that it was conceivable to alter normal three dimensional reality through a process which I now call 'tuned intent'. While at the time I didn't understand the mechanism for the process, and still can't provide its full mathematics, nevertheless, I pursued the premise, gradually understanding much of the engineering rules supporting it, and eventually made it workable.

From my research, I postulated a model for the composition of reality which confirmed my premise. This model takes into account two vectors: an E-field (electric charge), and an H-field (magnetism). Although these two vectors tend to have separate functions, it is the resultant vector between them that tends to describe our reality as we know and experience it.

Experimentation showed the electric vector to be the Summed Scaler Components that represents energy-as-information, while the magnetic vector locks this energy-as-information into a mode that renders it to us as our 3-dimensional reality.

Included as part of the magnetic vector are the gravitational field effects, as well as mass related effects of the spinning earth and its resultant fields.

What does this mean in a practical sense? If and when you are clever enough to locally cancel the magnetic and related components, while devising a way of tuning into the "energy-as-information", then with a combination of this tuning plus your own "intent"; (or desire/will), you can affect that which gives identity to any reality.

By careful tuning you can achieve a resonance which allows you to modify that reality. Working with this simple premise and very minute amounts of normal electromagnetic (electricity), one can, for example, detect and analyze biological conditions in humans and animals, as well as the various patterns and energies that make up a farmer's fields and crops, the weather patterns, and the telluric or earth energies at any given location.

Equally important, one can make basic and fundamental modifications to these various realities in their patterns of energy-as-information, which then reflects back into our normal 3-dimensional world.

Without elaborating the mechanics of how we accomplish this, I can state that it is mostly done by working with charges, circuits, and fields in which you convince, as it were, electron flow not to occur while you are doing this type of tuning with intent.

By using the same approach, one can collect the energy field or aura surrounding a subject, perform analysis in the form of FFTs (fast Fourier transforms), display it to a computer screen, and store the information to a hard or floppy disk drive for later evaluation.

## **THE USE OF PHASE CONJUGATION (TIME REVERSED) SIGNALS IN THE BETAR AUDIO SYSTEM TO ACCOMPLISH RELEASE OF DEEP, LOCKED-IN STRESS OF THE HUMAN BODY**

Time reversal theory has decades of distinguished and important usage in physics, although most engineers in fields outside nonlinear optics have little or no appreciation for the concept (a).

However, the phase conjugated (time reversed) wave is a general solution to the wave equation and applies to waves of all types (b). It has been accomplished with sound waves (c), for example, although little engineering use has been made of the effect except in the field of nonlinear optics, where it is an essential part of the paradigm.(d).

That phase conjugation (PC) waves can have beneficial effects on the human body has been addressed by [Tom Bearden](#) (e). Prestigious French scientists demonstrated that advanced electromagnetic machines, constructed by Antoine Priore using complex multiple signals of radar frequencies mixed and phase conjugated in a rotating plasma, exhibit significant healing characteristics, even against terminal cancers and leukemias (f).

Our purpose, however, in the use of phase conjugate sound in the BETAR tm is not to accomplish biological healing, but only the release and relief of embedded stresses in the body.

It is well-known in medical science that the prevalence of physical stress hampers the body's immune system and healing functions. Therefore, the release of stress, particularly chronic stresses, can have beneficial effects by enabling the body to relax and recover the normal level of its own natural and vital immune and healing capabilities. Other than relaxation through stress releases, no other claim for phase conjugated sound is made or envisioned.

## **BACKGROUND**

Western scientists discovered time-reversed EM (electro-magnetic) waves in the available Soviet nonlinear optics literature in the early 1970's. Prior to that time, no one in the West suspected that macroscopic, extensive time- reversed waves could easily be made and utilized.

A means of amplifying the time-reversed wave by four wave mixing was quickly discovered (g). This mixing is a universal mechanism and easily provided for in any nonlinear dielectric system in which multiple-wave inputs are mixed. It is as true of sound as it is of any other electromagnetic waves.

The simplest case will be explained briefly. Into a dielectric medium, two sinewave oscillations are introduced antiparallel, or with components that are antiparallel, so that their respective phases are 180 degrees apart.

The nonlinear medium acts as a modulator, and locks the two waves together into a single wave with zero translation resultants, but with rhythmic stress oscillations (rhythmic compressions and rarefactions, or, simply put, rhythmic squeezes and releases) in the material medium. In phase conjugation optics, this stress wave is referred to as the pump wave.

The pump wave is not, however, the rhythmic variation of the stress: stress and relax: stress and relax: and so on, through the dielectric medium. Precisely, it is a wave of potential, a scalar wave, throughout the medium, rather than a wave of translation forces (rather than a vector wave). In the ideal situation, it is also a standing wave, and thus a standing scalar wave.

The medium together with its standing pump wave is referred to as a pumped phase conjugate mirror (PPCM). A PPCM has certain very significant characteristics, the chief one being the capability of acting as an amplifier for producing an amplified phase conjugate (time-reversed) wave. If a third wave is now introduced into the PPCM, an amplified time-reversed replica of that third wave will be output by the medium itself.

In other words, the embedded, bound stresses of the medium (due in this case to the presence of the stressing pump wave) are released by this emitted and amplified phase conjugate wave.

The entire system acts much as a triode tube: the third input signal is the grid signal, and the pump wave is the energy input into the cathode. The input of the grid signal results in an amplified signal appearing at the plate in this instance, departing the system and radiating away.

In the situation of continuous 'pumping'; of the medium, the initiating signal must be continually applied. If the pump wave is only temporarily applied, then a single initiation of the grid signal will cause emission of a single amplified phase conjugate replica, which stress relieves the medium.

Thus with four-wave mixing and pumped phase conjugate reflection, bound, locked in stresses in a dielectric medium can be relieved and caused to radiate away as time-reversed waves. It is accented again that these characteristics and functions are universal to all waves and nonlinear media for them, not just to electromagnetic waves.

## **APPLICATION TO THE HUMAN BODY**

The application to the human body is straightforward. Since the body easily contains audible sound wavelengths, standing sonic pump waves can occur in the body tissues by properly phased, opposing sound waves, or sound waves with opposing or phase shifted components.

**Body tissues form a highly nonlinear dielectric and modulator, locking together the opposing components into a standing scalar sound wave. Inputs of opposing complex sound waves produce a variety (a spectrum) of standing scalar sound waves in body tissues.**

**This standing scalar wave spectrum completely penetrates with a minimum of input power, and none of the body tissues are completely omitted from possessing an internal standing wave.**

**The body becomes a pumped phase conjugate mirror. In addition, other inputs which do not zero-sum at the moment are continually occurring across the spectrum, providing a constant barrage of grid inputs to the body PPCM/triode, scanning the entire signal spectrum.**

**By this constant and pulsating grid signal input, the body is continually stress relieved, even from its deepest and finest tissue levels by the amplified phase conjugate replica sound radiation. The effect poses enormous importance: excess bodily stress of any and all kinds is continually scavenged from the cells, tissues, vessels, organs, bones, the entire body; and is radiated away as harmless, complex time-reversed sound waves.**

**Further, only excess stress is scavenged and relieved. A natural control is present, since the scavenging (PPCM) effect only exists when and where stress exists. Hence, no damage or harmful effect is done to tissues since the power levels are kept below the intensity that would be necessary for physical tearing and tissue damage.**

**The mechanism is one hundred percent efficient. It specifically targets internal stress, contacts the deepest and most minute levels of the body, and insures an automatic self regulation mechanism to prevent any harm to the tissues.**

## **THE BETAR STRESS REDUCTION METHOD AND SYSTEM**

**As can be readily seen by the first two drawings below (1a and 1b), placement of the transducers above and below the bed produces the four-wave amplified phase conjugate sound mirror (PPCM).**

**This mirror effect is achieved by the use of unique audio amplifiers and components with particular time-shifting characteristics. Furthermore, the pumping of the same signal through special transducers using particular materials and their placement in a designed relationship to the body being pumped are necessary for the phase conjugate effect and its inherent stress- relieving phenomena.**

**To further enhance the PPCM phenomena and effect, particular audio frequencies and pulses in the sub-audible and audible range are mixed throughout the BETAR system.**

**They consist of both sine waves and their odd-order harmonics, and are sub- audible in relation to the music heard on the BETAR system.**

**The amplifiers used in the system are unique also; for it is necessary to have a bandpass of frequencies that are well above and below what is considered the hearing range of a normal human being.**

**The physical properties of living, biological structures such as the human body behave as a semiconductor material. For some of the body's elemental composition conducts due to minute amounts of metallic compounds and elements. Other components are nonconductors, a dielectric by their nature, such as the various salts, etc.**

**The commonly accepted view is that a body has relatively high (26K ohms or more) resistance, certain capacitances, inductances, and conductances. Thus it acts like a semiconductor, or even possibly a dielectric.**

**The human body stores patterns of energy-as-information in the semi-conductor matrix which constitutes its matter. At different times, due to such changes as the amount of conducting materials, the subject may be more or less inclined to store more of these patterns of energy-as-information from his environment.**

**The BETAR and its transducers are physically designed to access these patterns-of-energy-as-information. The subject lays down above the transducers. The BETAR initiates and processes the sound in a phase-conjugate mode.**

**This normal translation of electromagnetic energy into sound vibration and pulsed magnetic fields induces a relaxation response in the body.**

**Besides these purely vibrational effects of the focused sound and vibrational components, the magnetic field generated by the coil component of the transducer interacts with the semiconductor materials sandwiched in the sound lens. Experimentally, we are showing an accessing of the patterns of energy- as-information as they are stored in the human subject.**

**The addition of the detector system mentioned at the beginning of page 2, provides the possibility for qualified medical personnel, physicians, psychiatrists, as well as psychologists, in developing a system of understanding for the interpretation of the modifications of energy that the body undergoes during the BETAR experience.**

## **ENDNOTES**

**For a thorough and comprehensive review of the application of time reversal to physics, see Robert G. Sachs, "The Physics of Time Reversal," University of Chicago Press, Chicago, 1987.<**

**b). David M. Pepper, 'Nonlinear Optical Phase Conjugation,' "Optical Engineering", vol. 21, no. 2, Mar/Apr. 1982, p. 156 (footnote). "...these processing techniques can in principle, be extended to other portions of the EM spectrum (e.g., rt, radio, microwave, radars, UV, etc.); and can also involve other fields (e.g., acoustic waves), given the proper nonlinear medium." Pepper's paper is probably the best English language introduction to, and summary of, nonlinear optical phase conjugation and the principles of time reversed waves in general. A much simplified explanation and discussion is in Thomas E. Bearden, chapters 'Extraordinary Physics' and 'Extraordinary Biology' in "Aids: Biological Warfare." Tesla Book Company, P. O.Box 1649, Greenville, TX 75401, 1988. Bearden also gives an extensive list of references on the subject.**

c). See, for example, A. P. Brysev et al, 'Model realization of a NbLi parametric phase-conjugating sound amplifier,' "Pis'ma Zh. Tokhn." Fiz 1, 1982, p. 546 (translated from the Russian).

d). Bearden, "i bid."

e). Bearden, "i bid." Bearden has advanced the first real explanation of the enormously important results achieved by Antoine Priore and his scientific colleagues, and has laid down an extensive conceptual theory for electromagnetic healing uses of phase conjugation, time-reversed waves, and the principals of photobiology.

f). For a complete exposition of the Priore Affair and the proven EM cure of terminal cancers and leukemia in rigorous laboratory animal tests, see Christopher Bird, 'The Case of Antoine Priore and his Therapeutic Machine: A Scandal in the Politics of Science,' in Bearden, "ibid." See also David M. Rorvik, 'Do the French have a Cure for Cancer?' in "Esquire Magazine," July, 1975, p. 110-111, 142-149. See also J. B. Bateman, 'A Biologically Active Combination of Modulated Magnetic and Microwave Fields: the Priore Machine,' in "Office of Naval Research," London Report R-5- 78, Aug. 1978. References to direct work with the Priore machine by leading French scientists and

members of the French Academy of Sciences are listed by Bearden.

g). For extensive explanations of four-wave mixing and PCR amplification, see Amon Yariv, & "Optical Electronics," Third Edition, Holt Rinehart and Winston: New York, 1985. See particularly Chapter 16: 'Phase Conjugate Optics - Theory and Applications.' See also Pepper, "Ibid." See also Robert A. Fisher, Ed., "Optical Phase Conjugation," Academic Press, New York, 1983. See also B. Ya Zel'dovich, N. F. Pilipetsky, and V. V. Shkunov, "Principles of Phase Conjugation," vol. 42."Springer Series in Optical Sciences," Theodor Tamir, Ed., Springer-Verlag, New York, 1985.

The following references are a further elaboration of the mechanics of the BETAR research.

(1). Kelly, Peter J. "Understanding Psychotronics." Paper given in Dallas, TX, 9/27/88. The paper presupposes in an experimental format that the 3 dimensional reality can be reduced to scalar patterns of energy-as-information of summed vectors and magnetic or H-field vectors. The information for that came from various works by Thomas Bearden and others.

(see footnotes in main paper on BETAR patent application).

(2). See pages 2 and 3 of this paper; (Use of Phase Conjugation [time reversed] Signals in the BETAR Audio System to Accomplish Release of Deep Locked-in Stress of the Human Body), for correct model of Phase Conjugate Mode.

(3). See 'Optoacoustic Interaction and Phase Conjugation of Sound Beams in Piezoelectric Semiconductors.' A. P. Brysev and V. N. Strel'tsov, "Sov. Phys. Acoust". 32(4), July-August 1986. Trans. from Russian.



**(4). Also, See 'Phase Conjugation of Acoustic Beams in an Alternating Magnetic Field.' A. P. Brysev and V. N. Stel'tsov; "Sov. Phys. Acoust". 32(5), Sept-Oct. 1986; Trans. from Russian.**

**(5). Interdimensional Sciences, Inc. 5000+ ongoing BETAR Comment sheets filled out by subjects upon the completion of their "ride". Many of the subjects mention mentally reexperiencing events during portions of their lives, some as long ago as childhood.**

**(6). See 'Propagation of Sound Waves From Directional Sources Near the Ground,' A. V. Generalov. "Sov. Phys. Acoust". 33(6), Nov.-Dec. 1987.**

**(7). See 'Phase Conjugation in Sound Scattering by a Pulsating Cylinder.' L. M. Lyamshev and P. V. Sakov. "Sov. Phys. Acoust". 33(4), Jul-Aug. 1987; Trans. from Russian.**

**(8). Interdimensional Sciences, Inc.; Research: Differences between current models of transducer as compared to earlier versions. Tested subjects remarked (subjectively) that the version with the plated sound lens seems more energetic. Statements to that effect can be produced from BETAR records.**

**(9). See "Magical Blend" magazine upcoming issue (June-July?) for article titled ' Some Reflections On The Healing Power Of Sound, Language, And Music: A Report Of The BETAR Biological Scanning System' by Tom Kenyon, M.A., Co-director of Acoustic Brain Research Institute.**

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Note from [Jerry Decker](#) of KeelyNet - 01/07/98

Several years ago, I had the opportunity to 'ride' the BETAR on a visit to Peter's lab in Georgia. In my experience, Peter allowed me to select whatever type of music I wanted and I selected Rock. The BETAR unit that I rode was an open geodesic shaped half dome with a platform suspended inside the dome.

I climbed onto the platform and lay down flat with a small pillow for a headrest. The BETAR was then set in operation using the Rock music I'd selected. Within a matter of minutes, I began feeling my muscles relax. A kind of drifting sensation arose as I listened to the Rock music. This sensation was most pleasant.

Normally, a BETAR ride runs up to 30 minutes. Peter let me stay on it for a full hour. When that hour was up, he re-entered the lab and turned off the BETAR. I had trouble getting my muscles to respond.

Having experienced an isolation tank for about 45 minutes in Dallas, the sensation was almost identical. The muscle tone was greatly diminished. In the case of the isolation tank, it took about 5 minutes to make the muscles respond to the will. Though it was a similar sensation on the BETAR, my muscles responded within about a minute of the unit being switched off.

It is my considered opinion, based on this direct experience, that the BETAR would be very beneficial to health if used on a regular basis.

I compare it to the extensive research done by the [Heartmath Institute](#) into stress and how it affects health. When a person gets excited, nervous, anxious or otherwise under SUSTAINED stress, the organs of the body, including the heart, suffer irregular pulsations.

If the person takes no action to smooth these irregular tremors, the organ has a greater chance of malfunction or failure. Heartmath has come up with meditation tapes that teach you to minimize or eliminate these stresses. Details and their successes are posted on their website.

My opinion is that the most profound sensations that I experienced when riding the BETAR were due to this lowering of the muscle tone to a near quiescent state. Granted, autonomous functions such as respiration, digestion, waste processing, etc. are probably not affected by these methods since they are not normally directed by conscious thought.

The various versions of BETAR units include one intended to be used in a clinical setting, where people can ride them for 30 minutes or so a day, as a kind of relaxation/stress relief.

On the weird science side of this, there is a fascinating little book called Lost Dimension. It can be purchased from Peters' company, Interdimensional Sciences. The book says Jehovah was a biologist and the other 'gods' included other biologists, physicists, chemists, etc..

They were working in the various disciplines trying to determine how to extend their own lives for thousands of years. The other biologists believed that chemistry and gene research

was the key to causing perfect regeneration of tissue to extend life. However, their injections yielded deformed or gross aberrations where hands or other organs would sprout from the site of the injection, due to totally random tissue differentiation.

Jehovah, however, understood that the body formation and regeneration was controlled by a dynamic energy field, much like Sheldrakes 'morphogenic fields' or Burr's 'electrodynamic fields'. He also came to the conclusion that the aura could be affected by the mind, so that stressful events experienced on a day to day basis, would produce energy interferences in the aura. If those energy interferences were sustained by not being resolved, the body would be affected to cause organ failure, allowing for the generation of disease and general loss of vitality leading to gradual aging.

Because of this, Jehovah developed a meditation technique that was used for 30 minutes prior to sleep. The meditation was simply thoughts directed to each section of the body, where the energy field of the aura was envisioned as without interference and brightly illumined with no 'dark spots' that would indicate a stress area. Once this 'imagery' technique had been applied to the entire body (and it could be done several times to reinforce the total body image), the subject falls to sleep.

Since the body heals most efficiently and rapidly while sleeping (because there is less use of energy and attention to navigation, thought, digestion, sex, etc.), if the aura was cleared up using this meditation technique, then any tissue regeneration would provide an optimal pattern.

Using this method, Jehovah found that, over a period of time, the body was restored to its optimum energy levels and a more vigorous youthful appearance.

That is why I think the BETAR and the Heartmath tapes make perfect sense. There is also a 'mini' BETAR for home use and when I come into some bucks, I plan to investigate the effectiveness and purchase one if it might help maintain health and vigor.

I'd also like to thank Peter for sharing this document with us all.

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As of 02/20/98, READ THIS [Phase Conjugation](#)

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February 18, 1994

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The following is a very basic introduction to the incredible researches of Albert Roy Davis and Walter Rawls. Davis is no longer living, but Rawls currently lives in Florida around Jacksonville.

We highly recommend the purchase of the following books detailing the researches of these two brilliant investigators.

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"Magnetism and its Effects on the Living System"

Explains for the first time how magnetism affects your life and the life of all living systems around you. The result of years of investigation into the laws of magnetism, it explains the discovery that a magnet has not one effect on the living system but TWO EFFECTS, each supplied by the two forms of energy transmitted from each pole. You or any other qualified person can reproduce the projects in this book. (Illustrated)

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"The Magnetic Effect"

In this book, Davis and Rawls present and discuss biomagnetic experiments and research that have been successfully duplicated by members of the orthodox scientific community. The authors reveal the factual, natural basis of applied biomagnetic energies and add greatly to the understanding of this new and exciting field. The computer-exact and reproducible findings in this work apply to the treatment of such conditions as arthritis, cancer, glaucoma, sexual problems, and aging.

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"The Magnetic Blueprint of Life"

Written with forcefulness and precision, this is a comprehensive guide to the effect of magnetism upon the air we breathe, the food we eat, the exercise we take. It is an eloquent plea to the scientific community to reconsider the significance of basic magnetism...."the most important energy in Nature."

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BioMagnetics

Part 1

by Jerry W. Decker

with information from "The Magnetic Effect"

by Albert Roy Davis and Walter C. Rawls

One of the most important series of experiments ever done and yet still not widely known, were those carried out by Albert Roy Davis in conjunction with Walter Rawls. These experiments are FUNDAMENTAL to an understanding of magnetic forces and are to this day not being used widely because many have never heard of them.

They found that each pole of a magnet has SPECIFIC effects that are quite different from those of a full magnet where both poles are applied simultaneously. These polar effects are deemed "mono-polar"

for one pole. The poles spin in opposite directions and have opposite properties.

Specifically, North Pole energies cause mass to contract and condense, rotating in a CCW direction, while South Pole energies cause mass to expand and dissipate, rotating in a CW direction. Also, North Pole energies have alkaline properties while South Pole energy is acid. North pole energies tend to collect fluids while South Pole energies dissipate fluids. North pole energy is referred to as negative because it reduces or attracts, while South pole energy is referred to as positive because it expands and dissipates.

Since magnetic monopole magnets are not available at just any Wal-Mart store, they chose to use the longest possible bar or cylinder magnets they could acquire which would allow for the greatest separation of the two opposite energies.

It was found that use of a North Pole would provide an energetic environment which would cause cancer cells to contract and die out. This energetic environment also has other healthy applications as detailed in their many books.

I had the pleasure of visiting with Walter Rawls one afternoon at his office in Jacksonville, Florida several years back. We discussed many things including Keely, of which he had never heard. Mr. Rawls mailing address is

Walter Rawls  
ARD Research Lab  
PO BOX 655  
Green Cove Springs, Florida 32043  
(904) 264-8564

Should you wish to carry out your own experiments with magnets as blazed by these pioneers, here are some helpful tips.

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CORRECT POLE IDENTIFICATION

First, you need to understand how to correctly identify the polarity of any magnet. In Davis/Rawls own words:

"The North pole of a magnet seeks a South pole; likewise, a South pole seeks a North pole. The North pole of a magnet is NOT the North-SEEKING pole, nor is the South pole the South-SEEKING pole. In fact, the North-SEEKING pole of a magnet is ACTUALLY the South pole! The South-SEEKING pole of a magnet is the North pole. The rule to remember is OPPOSITES ATTRACT and SIMILARS REPEL.

Test a magnet for correct usage by identifying the separate poles correctly. Using a bar or cylinder magnet, tie a thread around the exact center of the magnet, with the thread having a loose end.

Tie the loose end of the thread to any stationary overhang that allows the magnet to turn without hindrance in space. When the magnet stops turning, the end of the magnet pointing in the

direction of the earth's North pole is the South pole of the magnet. You may need a simple compass to determine the earth's North pole direction.

After you have determined the South pole of the magnet, mark that pole end with red fingernail polish or paint. Once you have one magnet properly identified for North and South poles this magnet can be used to IDENTIFY the North and South poles of OTHER magnets. (They use the color RED to indicate danger and thus avoid it for biological experiments. The reason being that since it causes a swelling of tissue, the fluids flow more freely, it accelerates life and growth. If you have a bacteria or disease, it will also ACCELERATE its growth and so can be quite dangerous.)

For example, if we bring the South pole of any magnet up to another magnet's pole, a REPELLING force shows that the pole of the unknown magnet is the South pole. An ATTRACTING force shows that the unknown pole is the North pole.

You may wish to purchase a small inexpensive magnetometer. The sensitive needle of this instrument moves in one direction or the other depending on the separate magnetic pole in close vicinity. The law of magnetism is a PRIMARY law of nature:

Like forces REPEL - unlike forces ATTRACT.

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#### ESTIMATING FIELD STRENGTH

Magnetic field strength is measured in units called gauss. Since magnets are not sold with this value printed on them and gaussmeters are expensive, you need a way to determine the approximate field strength.

Magnets are generally sold by their LIFTING power. That is, a horseshoe magnet is offered as having a lifting power, when placed against a piece of heavy metal, of 2 pounds to 25 pounds to 50 pounds, depending on the size, type, or kind of magnet.

As a guide to the approximate gauss of commercial magnets, consider the following:

A magnet having a lifting power of 2 pounds may vary from 500 to 600 gauss units;  
a lifting power of 5 pounds may vary from 900 to 1200 gauss;  
a lifting power of 25 pounds is usually around 2000 gauss;  
with 50 pounds lifting power, 3500 to 4500 gauss.

For more precise measurement, an equipment aid, such as a magnetometer, should be employed.

Care must be taken to properly determine which pole is North and which is South, based on the above criteria.

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When I was visiting with Walter in Florida, he very kindly gave me an assortment of magnets and books as well as an interesting meter that is used to measure the field strength AND POLARITY of a magnet.

This meter allows you to quickly and accurately determine what pole is North or South. It also has instructions for helping to determine the field strength. The meter sells for \$50 and is a quick way to VISUALLY determine the polarity of any magnet.

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#### CARE AND HANDLING OF MAGNETS

To prevent breakage and loss of magnetic power, you should never drop or strike the magnet with a sharp blow. Not only can it chip but it can also lose magnetic energy.

Magnets should never be stored in a hot location. Most magnets lose ALL their power at temperatures from 400 to 500 degrees Fahrenheit. The loss occurs at the CURIE point, where the magnetic domains are no longer aligned and become chaotic.

After using a magnet, you should place both ends of the magnet against a structure of flat metal. This will allow the magnet to maintain its original strength. Such a structure is called a "keeper." Magnets should be kept away from each other. If placed where the poles of separate magnets repel, there could be a "bleeding-off" of the energy. A loss of energy in this manner would be rapid.

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#### WHY YOU SHOULD NOT USE ELECTROMAGNETS

Very effective and powerful magnets are made by passing electrical energy through a coil of wire having a metal, iron, or steel core. However, there is a difference between the magnetism produced in this manner and the magnetism from a solid state bar or metal composition magnet.

Magnetism HAS A FREQUENCY. It also has motion. The rate of vibration depends on the size, length, width, and power of the magnet. Solid state composition magnets, such as metal, iron and steel, are CONSTANT in their rate of vibration DEPENDING on their structure. An electromagnet, however, may present a number of different types of vibrations.

Any kind of electromagnet has many turns of insulated wire. Each turn of this wire presents so many lines of magnetism. Actually, we have discovered that these lines of force are really CABLES of force, as explained in our earlier publications. (See RAWLS1.ASC and RAWLS1.GIF on KeelyNet)

However, a coil wound a certain number of turns has a different frequency from a fixed metal or composition magnet. As the coil heats, the resistance to the flow of current INCREASES. Here we have a SLOW DROP in magnetic lines, or cables, of force to a RISE IN FORCE, depending upon the wire and core materials used for construction. Therefore, the vibrations supplied by the electromagnet are NOT AS CONSTANT as those from the metal or composition magnet.

Our research has revealed that size, width, and overall length of a magnet GOVERNS FREQUENCY in electrical electron vibrations. This is a discovery not known by the general scientific community, because

wee have not published our scientific materials on this research finding. We are working on this discovery in the establishment of provable laws that we will disclose when completed. We feel confident this future disclosure will open new avenues that neither we nor the general scientific community could properly comprehend at this time. (printed in The Magnetic Effect in 1975)

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I asked Walter about this frequency business with magnets and at that time, he would not disclose how the measurements were made as it was proprietary to their company, BioMagnetics International. There are over 36 international patents based on the Davis/Rawls discoveries.

Also at the time I spoke with Walter, he said they had developed a couch that could DIAGNOSE problem areas in the body with an accuracy of 99%. It uses magnets to create a response in the body to indicate an infected or diseased location. This response is described in the books listed above and has to do with a contraction of tissue when in the presence of a North pole energy.

It is interesting that the Floyd (Sparky) Sweet Vacuum Triode uses magnets that are "tuned" to the 60 cps frequency. This allows the device to pull in space energy at a frequency that requires no alteration to run off the shelf devices. We also understand he has "pulled" as much as 3000 watts of free energy directly from this space energy source, also called the ZPE or hyperspace or virtual flux. The magnets are put under a tremendous stress by placing like poles against one another, then binding them together, this effectively creates a giant magnet with spatial stress bubble. All that is listed on KeelyNet as SWEET1 through SWEET4 and the diagrams are listed as VTAPAK.ZIP.

The device also appears to be LOCALE DEPENDENT, meaning that it works better in some areas than others. To our knowledge, no one has yet publicly admitted to successfully duplicating the Sweet device.

We are told Sweet is under a Secrecy Order by the United States government that forbids his discussing or working further with his own discovery. If he'd only "slip" a copy of the plans out, we'd be very happy to distribute them across the computer networks and to many other researchers who would make it a reality for all.



February 22, 1992 CURIO1.ASC ----- This file is shared with  
KeelyNet courtesy of Tom Brown, Director of Borderland Sciences. The Journal of Borderland Sciences has been in  
active publication since 1945. It is an excellent quarterly magazine with subscribers worldwide. If you might like to  
subscribe, please mention that you heard of Borderland from either Vanguard Sciences or KeelyNet. Yearly  
subscriptions are \$20. Borderland Sciences P.O. Box 429 Garberville, CA 95440-0429 USA -----

----- BSRF - Sep/Oct 1968 -----  
Vanguard Note... The following file is a most curious bit of information we found in the Journal of Borderland  
Research. It describes a strange phenomenon relating to the spinning of a magnet when suspended over a painful  
area. There is a possibility that some form of vortex is being projected and picked up by the magnet. As the magnet  
intercepts the vortex, it helps to dissipate the accumulation of energy which causes the pain and stops its spinning  
when that point is reached. We would greatly appreciate any experiments you might perform in this area since it  
could very well benefit a lot of people. Thanks. ----- The  
Balancing Effect of Carbon and Magnet "Here's something interesting to report using a COPPER-COATED  
CARBON ROD and a big, 15-3/4 pound magnet, with an average Gauss of 2000. It cost me \$7.50 at a surplus store  
on Canal St. in New York. I suspended the magnet on a short cord with a loop so that it would fit easily over my  
hand while holding it. "A woman aged 46 had an ovary removed about 8-9 years ago and has had trouble with the  
remaining ovary ever since. At the beginning of menstrual cycles, she would double up with sharp, shooting,  
excruciating pains in the remaining ovary area, not each time but many times. She had such pains last night and  
being a good friend of the gal I chum around with, we visited her with the magnet and carbon rod to ask her if she  
would be gamr to try something, no results guaranteed. When I told her what our plans were she looked insulted!  
She said it seemed silly and unworkable but she had nothing to lose, except maybe part of the pain! So we tried it,  
following along the lines suggested by the Goeke Article. I placed the carbon rod against her back in the  
approximate position of the remaining ovary, then suspended the magnet over her lower abdominal area about six  
inches above the skin. It remained MOTIONLESS for about 20 seconds or so, THEN BEGAN SPINNING  
SLOWLY CLOCKWISE, then PICKED UP SPEED VERY RAPIDLY until it was really moving, much like a  
rotating wheel on an axle. I certainly did not expect this, so stopped the movement manually with my other hand. It  
soon STARTED UP AGAIN on this time I let it go. It stopped in about 1/2 minute OF ITS OWN ACCORD. I then  
took the cord but the magnet remained motionless this time. In about 10 seconds or so it began a slight movement  
which evolved into a rather large circle, about six inches across, and this swinging was in a counter-clockwise  
direction, exactly the opposite of the rapid spinning motion just preceding it! "It STOPPED OF ITS OWN  
ACCORD IN ABOUT A MINUTE or so and I took the magnet away. We were so busy talking about the peculiar  
motion of the magnet we forgot all about what we had come there for! I then asked the woman how she felt and the  
way she said, "I don't feel a thing" made me think she had suddenly gone numb! I asked her again about the pain and  
then she said what she meant was that she couldn't feel any pain anyone. She got up and moved around a bit but still  
couldn't find any trace of pain in that area. I asked her to concentrate on that area and the pain that had been there,  
but even this didn't bring it back; nor did various body motions that varied the pressure in that area. All this last  
night and the pain hasn't returned as of this afternoon the following day, and her flow is fuller than usual. "What all  
this means I'm sure I don't know as this was my first experience with a magnet and carbon rod. Such a thing may  
never happen again. What puzzles me most is the RAPID SPINNING ACTION of the magnet, as this sort of thing  
wasn't discussed as a possibility in the Goeke article. Let me know if you would like a sample copper-coated carbon  
rod." N.R., New York ----- \_

April 21, 1991 SNAKE1.ASC ----- The following is a summation and series of quotes from a two part article that appeared in OUTDOOR LIFE magazine. The name of the article is "A Shock Cure for Snakebite" and was written by Larry Mueller. Part 1 of the article was in the June 1988 issue and Part 2 was in the July 1988 issue. Back issues of OUTDOOR LIFE can be purchased by writing OUTDOOR LIFE, Back Issue Department, P.O. Box 54733, Boulder, CO 80233. The price per back issue is \$4.00. A cheaper way out is to call the OUTDOOR LIFE home office at (212)779-5000 and ask them to send you a copy of the article. They will do this free of charge but you may have to tell them that you are a subscriber to their magazine.

----- A SHOCK CURE FOR SNAKEBITE Part 1

\*\*\*\*\* The first part of the article tells several stories of cases where high voltage DC was used to treat snakebites. In the first case, Dr. Daryl Neans, a veterinarian of Pflugerville, Texas, tells the story of a rancher who brought in a dog that was bitten on the face by a rattlesnake 30 minutes earlier. The dog's face had started swelling and because Dr. Neans had previously read an OUTDOOR LIFE article about the treatment, he connected a wire to one of the spark plug wires of his truck then grounded another one to the frame and used the two wires to shock the "dog's face half a dozen times around the bites." The treatment seemed to relieve the dog's pain, but "for insurance, Dr. Neans had followed the shock treatment with the usual cortisone, antibiotics, and tetanus antitoxin, but he's convinced that the shock had already effected the cure." The article explains why Dr. Neans believes in the cure: "Body tissue is negatively charged, snake venom is slightly positive, and unlike charges attract. If ionization of the venom molecules is altered by electrical shock, he reasoned, perhaps they can't attach themselves to animal tissue and destroy it." Dr. Markus Kryger had read about the treatment in a medical journal when he opted to use it on courthouse employee in southwestern Missouri who was bitten by a copperhead just outside the courthouse. He used jumper cables attached to the spark coil of his car to treat the wound after giving the woman a tetanus shot and disinfecting the bite. "Within the hour, the puzzled patient was back at work." Dr. Kryger became convinced that electrical shock could deactivate snake venom because of the chemistry of the poison. Besides proteins and enzymes, venom contains copper and other trace metals whose electrical properties could be easily upset by high-voltage shock, thereby possibly uncoupling what makes the venom work. Dr. Ronald Guderian is a missionary doctor from Seattle who is given credit for being the first to use high voltage DC to treat snakebite. He has "successfully treated more than 60 cases in the Esmeraldas Province of Ecuador." Based on Dr. Guderian's experience it seems that if the treatment is received within 15 to 20 minutes after the bite has been inflicted then the pain stops almost immediately and no swelling will occur. If swelling has already started, then it stops and the pain soon subsides. Dr. Guderian typically uses a Nova Technologies stun gun with one of the electrodes modified so that the current can be passed directly through the limb by placing an electrode on each side. "All of the successful treatments have been performed with 20,000 to 25,000 volts or more." It has to be DC voltage, too. The article expresses a concern that someone with a pacemaker might be killed if they were shocked with the voltage from an ignition system. The frequency and duration of the pulses of an ignition system, it is feared, might scramble a pacemaker. "The only medically tested shocking device that is safe for almost all people, including those with heart pacemakers, is the Stun Gun, made by Nova Technologies (2207 Braker Lane, Austin, TX 78758, 512-832-5591)." "NO ONE HAS EVER USED ELECTRIC SHOCK TO TREAT SNAKEBITE INFLICTED BY SNAKES WHOSE VENOM ATTACKS THE NERVOUS SYSTEM." (ex. cobra) "The only venomous snake of this kind in the United States is the coral snake." The article warns that the high voltage DC shock would not be effective against the neurotoxins in the venom of snakes such as the cobra and coral snakes. Dr. Guderian's success has been with using the Stun Gun made by Nova Technologies. The FDA won't let Nova advertise the stun gun as a treatment against snakebite until further testing has been achieved. There has been some trouble with reproducing the effect of the treatment in the laboratory. It has been proposed that the reason that the treatment has not worked in the laboratory is because those who were doing the testing were using one of the many imitation stun guns imported to the US from Taiwan or South Korea. Another factor in why the treatment does not work in the laboratory is that, in the laboratory, it is tested on small animals. In the words of Dr. Guderian, "Think about it. Snake venom evolved for the purpose of quickly killing prey. Humans are not snake prey: we just get in the way some times. There may be biological differences causing small animals to be more susceptible than humans to venom. Or it may just be a matter of our much larger size. ....When a small animal is snakebitten, all of it's biological systems shut down so fast that nothing can be done to stop it. When a human is bitten, he has a local reaction, followed by pain, swelling, and possible death perhaps 24 hours later." The Japanese have reported to Dr. Guderian "that his shock treatment works on people bitten by their venomous snakes." He has also received letters telling of success stories in Peru, Columbia, Argentina, New Guinea and Africa. As an explanation for why the treatment works, the article cites a Texas chemist who suspects that electro-phoresis is taking place. In electro-phoresis a high DC voltage is applied to a substance to dissociate the compounds in that substance. "Snake venom is a complex combination of proteins, enzymes (which are proteins with biological activity) and metal ions....The

positively charged proteins travel toward the negative terminal, and the negatively charged proteins migrate toward the positive connection....The chemist suggested that high-voltage shock would cause enough separation to render the venom inactive." ----- A SHOCKING CURE FOR SNAKEBITE PART 2 \*\*\*\*\* This second part of the article opens by describing the experience of Jim Scroggins, vice-president of Nova Technologies, when he took a trip to Ecuador for the purpose of verifying the incredible claims being made by Dr. Ronald Guderian in regards to the ability of the Nova Stun Gun to treat snakebite. On a hike through the jungle to visit an indian village, Jim was bitten on the arm by a conga ant. The conga ant's "venom can cause a limb to swell so badly that it can't be used for days." Jim claimed the bite felt like "five wasp stings in the same spot." He shocked the wound with a stun gun and "within 30 to 60 seconds the pain was gone." Even though conga ant bites are supposed to swell the whole limb, Jim had no swelling, only a discolored area the diameter of a baseball. Dr. Guderian began the high voltage DC shock treatment, not on snakebites, but originally on stings and bites from scorpions, ants, bees, wasps, and other kinds of insects. In the beginning he used the ignition systems of outboard motors and chainsaws to treat the stings, but he later was sent a portable, battery powered "buzzer-and-coil" setup from a friend in Indiana. Later on the same friend sent him several Stun Guns to try out. While Jim Scroggins was in Ecuador, a girl was stung on the toe by a scorpion and given the shock treatment with a stun gun. After a few minutes the pain was gone and the girl left the emergency room. After Scroggins got home from his trip to Ecuador, his wife was working in the yard when she was bitten on the hand by four fire ants. "Donna starts getting a reaction to just one fire-ant bite in about five minutes. Then, she goes into anaphylactic shock and can't breathe." In the rush to go to the hospital, the Scroggins took time to treat the hand with "two quick half-second zaps" from a Nova Technologies Stun Gun. On the way to the hospital, the pain had stopped, so they turned around and went home. "There was little or no swelling, perhaps one third of what she usually gets from a single bite." Dr. Guderian has found out through various sources that shocks have been used to treat scorpion stings for years in places like India. 40 years ago, people in Nigeria who were stung by scorpions were commonly shocked with the ignition system of a motorcycle. High voltage DC can be used to treat other things as well. While in the city of Esmeraldas, Dr. Guderian had the opportunity to treat a child who had been stung on the back by a stingray. He used a wire connected to an automobile's ignition coil and 20 minutes after the treatment the child was back in the water again playing as if nothing had happened. A Dr. Stoddard talked to by OUTDOOR LIFE points out that bacteria, like venom, is largely protein. So are viruses. In Europe, acne is being treated with electricity. Dr. Guderian has treated boils with high voltage DC. According to him, if a boil is treated before it comes to a head, the swelling and reddness will be gone in three to four days. Dr. Stoddard even suggests that in the future rabies may be treated with electric shock. Dr. Guderian is amazed at how well the shock treatment works to relieve pain. He suspects that the pain deactivation process is separate from the deactivation of the poison. The article tells the story of a Texas woman who suffers from severe migraine headaches and volunteered to be treated with a stun gun. She was shocked on the back of the neck and once on each side. The pain went away, but in the morning it was back, only this time much weaker. The process was repeated again and the pain totally vanished. It is proposed in the article that, "the same high voltage shock that upsets the electrical charge of venom proteins may upset the charges in body proteins that signal pain to our brains." ----- Submitted to KeelyNet by Michael McQuay EXCELLENT, thanks Mike!! -----

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November 29, 1991 DELAW2.ASC ----- This file shared with KeelyNet courtesy of Sgt. Paul Carlson. ----- From the June 1959 edition of The DelaWarr Labs Mind & Matter Journal. -----

- Effects of Radio Waves gets Wider Laboratory Study (This second article in The New York Times of April 6 describes Mr. John Osmundsen's interview with Dr. A. J. Ginsberg after reporting the previous week on parallel work by Dr. John Heller. The importance of this work may be judged by the large number of University research programmes that are being diverted in the United States to the effect of radio wave frequencies on health, although for years scientists have denied that such effects are possible. It is to be hoped that the work and research at the DelaWarr Laboratories will now receive more serious attention.....The Editor) Research into the harmful effects and the possibly beneficial uses of high-frequency radio waves on living things is reported to be expanding rapidly in laboratories in the United States and Canada. Investigations sponsored by the armed services are going on in at least ten American Universities and research institutes. The research is aimed at providing knowledge that will make it possible to live safely with the increasingly powerful radar and other micro-wave generators being developed. Although existing devices are said to be completely safe if properly handled the most powerful are believed to be potentially capable of causing **SERIOUS DAMAGE AT A DISTANCE OF SEVERAL MILES**. It is assumed, also, that the implications this has for weapons development are being investigated. Parallel studies into the possible beneficial effects of much lower-powered pulses radio waves have been begun or are expected to begin soon in fifteen or twenty other laboratories. This work has been instigated largely by Dr. A. J. Ginsber, a New York physician. He has reported the successful treatment of hundreds of cases of acute and chronic infections with these radio waves. Dr. Ginsberg admits that he does not know how the apparent cures with his so-called DiaPulse machine were brought about. But he has a theory about the ways in which pulsed high-frequency radio waves interact with living tissues. This theory has interested several prominent investigators sufficiently to prompt them to begin research into the matter, many with their own funds. Dr. Herman P. Schwan, Director of the Electro-Medical Laboratory of the University of Pennsylvania - who consulted with Dr. Ginsberg on several research programmes - is cautious but not discouraging. In a recent interview Dr. Schwan remarked, "There is an interesting possibility that Dr. Ginsberg's machine may turn out to be a very important advancement in physical medicine." Ironically, the effect of high-frequency radio waves on biological systems that Dr. Ginsberg believes can help relieve infections is one of the effects being looked for by the armed services as a possible hazard of high-powered radio waves. What both groups are looking for are biological responses to radio waves that do not result from heating. Although these athermal effects have not been demonstrated conclusively many scientists engaged in this work agree that they exist.

**Heat Long in Use** The fact that radio waves can cause heating in tissues has long been known and has been widely used to treat inflammations and injuries to joints and soft tissues. This treatment, called diathermy, uses short-wave radio frequencies. Much more powerful higher-frequency (shorter wave) radar used for this purpose would cook internal tissues. Dr. Ginsberg said that in 1943 he had investigated the idea that something other than heating might be going on in tissues treated with diathermy. In a paper published in **THE MEDICAL RECORD** for December 19 of that year he reported diathermy results that he felt could **NOT BE ACCOUNTED for PURELY BY HEAT**. This led him, he said, to try to eliminate the heating effect of the diathermy. He explained that the most logical means for doing this seemed to be to pulse the radio waves in such a way that any heat created would be dissipated between pulses. With the help of Arthur Milinowski, a physicist, Dr. Ginsberg built a machine for this purpose and soon, he claimed, supported his contention that there was a beneficial athermal effect of radio waves on tissues. According to Dr. Ginsberg's theory the athermal effect of pulsed radio waves **STIMULATES THE BODY'S DEFENSE MECHANISM**, marshalling the system that scavenges foreign materials and tissue debris. This system is believed to produce antibodies which act against infectious invaders. Two reports apparently substantiating claims for an athermal effect were made in the March 28 issue of **NATURE**, a British scientific publication, and in the **RES BULLETIN**, an American journal. Those papers carried accounts of the bizarre behaviour of micro-organisms and the apparent interference with heredity-controlling material in certain plant cells **CAUSED BY PULSED RADIO FREQUENCIES**. The work, done by Dr. John H. Heller and his group at the New England Institute for Medical Research in Ridgefield, Conn., was instigated by Dr. Ginsberg's search for scientists to look for an athermal effect of pulsed radio frequencies. A modified version of Dr. Ginsberg's device was used in the group's early work but it has since built its own radio pulse generator. Dr. Heller reported that he was **UNABLE TO DETECT ANY TEMPERATURE RISE** in the cell containing tiny micro-organisms that swam either back and forth or up and down in response to different frequencies of the pulse radio waves. Dr. Schwan believes his group at the University of Pennsylvania has found still another way in which high-frequency radio waves might affect living tissues athermally. This is to **CHANGE THE PERFORMANCE OF NERVE CELLS** by acting on the cell membrane. How this would ultimately affect the organism, however, is not known, Dr. Schwan said. Dr. Schwan and several other scientists agree that a great deal must be learned at a very fundamental level to find out exactly what effects other

than heat are created by high-frequency radio waves in living tissues and then whether those effects are good or not. This, he explained, is a job that will take many years. In the meantime the armed services are studying means for protecting persons who work around radar installations with radar-reflecting clothes and shielded buildings and passage-ways. Those steps would be taken largely to give protection against the heating effects of radar waves, which are known to be capable of causing cataracts, reproductive cell damage and other injuries. The Army, Navy and Air Force are also continuing their sponsorship of extensive research programmes on the biological effects of high- frequency radio wave energy. Progress in this work will be discussed at a tri-service meeting later this year. And extensive clinical studies are being made to see if Dr. Ginsberg's idea of treating illness with pulsed radio waves can be evaluated statistically with patients, even though the possible athermal effects are not yet understood biophysically and physiologically. ----- \_

November 29, 1991 DELAW1.ASC ----- This file shared with KeelyNet courtesy of Sgt. Paul Carlson. ----- From the June 1959 edition of The DelaWarr Labs Mind & Matter Journal. -----

- Radio Waves Found to Affect Cell Behaviour (This article which appeared in The New York Times on March 30, 1959 is the first intimation, apart from the claims of various radionic operators, that radio waves can affect cellular behaviour. The information comes somewhat as a shock to all physicists judging by the remarks of the physicists and biologists visiting Dr. Heller's laboratory who say "I'll be damned". We would remind our readers that the method of critically tuning a radio frequency to produce a resonant effect with a specific cell group in the human body is a routine performance with the more advanced radionic operators.....The Editor Organisms line up in reply to High Pulsed Range The discovery that radio waves can influence the behaviour of cells has been reported by a team of scientists. It is believed that the discovery may have far-reaching effects in medicine and in the understanding of basic life processes, as well as in industry. The findings, published in two technical journals, have to do with the behaviour of many living and non-living substances in fields of radio energy. The scientists are Dr. John H. Heller, Dr. A.A. Teixeira-Pinto and Dr. John L. Cutler of the New England Institute for Medical Research in Ridgefield, Conn. They have found that a variety of substances - including carbon, silver, starch, polystyrene particles, red blood cells and several types of living microscopic organisms - can be oriented by pulsed radio frequencies. Perhaps the most significant factor in this work so far is the discovery that the new technique apparently permits the scientists to affect structures inside living cells. The use of the pulsed radio frequency of about twenty-seven megacycles on cells in the growing root tip of a garlic plant, for example, created some abnormal cells and killed others by interference with the heredity- carrying elements. At present the scientists cannot explain the phenomenon. The possibility that particles under an impressed radio frequency tend to line up SO THERE IS MINIMAL DISTORTION of the field as close as they can come to guessing how it works, but this leaves many questions unanswered. The scientists, however, are able to reproduce the effect predictably. For example, randomly swimming groups of tiny, cigar-shaped organisms known as Euglena can be made to swim together in an east- west direction, ALONG THE LINES OF FORCE in the impressed radio- frequency field. They all move in straight lines as though obeying the lanes in a swimming meet. This analogy is extended by the little "flip turns" the Euglena make when they reach the end of a "lane" and swim back along their original paths. Even more astonishing things happen when the radio frequency is increased a certain amount. The little organisms SUDDENLY FLIP NINETY DEGREES and all start swimming in a north-south direction. Dr. Heller said that this ability to "play these things like a piano" has so fascinated his team that lights have been burning in the laboratory practically every evening and week-end since the work began last November. "Visiting physicists and biologists usually don't believe it until they see it work," he said. "Then the first thing they say is 'I'll be damned!'" Dr. Heller and Dr. Cutler demonstrated the effect on several other things, including staphylococcus germs, amoebae and polystyrene particles (tiny synthetic particles of uniform size). All except the staphylococci behaved as predicted, lining up east-west under one radio frequency and north-south under another. Dr. Heller explained that each substance seemed to have a FAVOURED FREQUENCY for lining up with OR against the field. Euglena, for example, line up east-west at six megacycles and north-south at about fifteen megacycles. Staphylococcus north-south frequency, presuming it has one, appears to be one out of the range of the institute's present equipment, according to Dr. Heller. Radio signals in the medium frequency range are being used roughly between five megacycles and forty megacycles. The scientists are at work on equipment that will take them into radar range, or somewhat above 100 megacycles. The present equipment consists of a radio frequency source that permits pulsation of the signal at various rates and powers. Pulsing is necessary because a constantly applied signal would fry any living material. Wire leads from the power source end in electrodes of silver paint on the underside of the microscope slide that is covered with still another microscope slide on which the material to be examined is placed. In this way the experimental material is insulated from the electrodes by two thicknesses of glass and thus exposed only to the radio field and not directly to any current carrier. Preliminary results from work with this equipment are carried in NATURE, a British scientific publication, and the RES BULLETIN, the American journal. The New England team got into this work by being dissatisfied with explanations offered for the reported development of cataracts and germ-cell damage in persons WHO WORKED IN RADAR, a radio frequency considerably higher than that being used in the Ridgefield laboratory. Some investigators suggested that the alleged damage was caused by the heating of tissue in the radar beams. Dr. Heller did not like this theory and set out to explore other possibilities. Alteration of genetic material induced in plant test "Four reports of the peculiar behaviour of fat globules in radio- frequency fields had been made since 1927," he said, "and we decided to see if we could get similar reactions from other things." He added that a number of other substances that lined up AND STRUNG TOGETHER UNDER PULSED RADIO FREQUENCIES were soon found. One of their experiments stands out as an important turning point. Working with a microscopic animal known as paramecium they noted that a tiny particle within the cell of a trapped organism FLIPPED BACK AND FORTH

according to the impressed field. This meant, Dr. Heller explained, that it was possible TO REACH INSIDE CELLS AND AFFECT MANY INTERNAL STRUCTURES. That new possibility led to an experiment in which cells in the growing tip of a garlic plant were exposed to the field for five minutes and then examined twenty-four hours later. The scientists reported finding several changes in the cells' chromosomes, the heredity-controlling structures. VIRTUALLY ALL the classical aberations known to be caused by ionizing radiation and certain poisons were noted, Dr. Heller explained. This finding suggests that radio frequencies appear to constitute a powerful new tool for studying the growth and genetic development of organisms. Work along this line has already resulted in the creation of both LETHAL MUTATIONS and VIABLE NEW STRAINS of vinegar flies and certain bacteria, the scientists said. They speculated that this research might find application in cancer treatment if it turned out that radio frequencies COULD BE USED TO SCRAMBLE CHROMOSOMES in malignant cells, thereby preventing their further growth. In addition, because each substance seems to have a PREFERRED RADIO FREQUENCY to respond to, MIXTURES OF DIFFERENT ONES might be separated with the new technique. In support of this possibility Dr. Heller cited experiments that showed how foreign substances could be made to flow over aligned polystyrene particles and how two different strains of penicillin spores WERE DIFFERENTIATED by the radio-frequency fields. Dr. Heller also remarked that interest in his experiments had been expressed by the oil industry. Behind this interest, he explained, is the thought THAT IF PARTICLES CAN BE ALIGNED before they are chemically strung together into fibres, EXTREMELY STRONG STRANDS of the material probably can be created.

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December 7, 1990 MIND5.ASC ----- this information  
courteously provided to KeelyNet by Mark McCloud and Cheyenne Turner -----  
----- taken from the article Geophysical Variables and Behaviour: XXXIX Alterations in Imaginings and  
Suggestibility During Brief Magnetic Field Exposures by Christine F. DeSano and M. A. Persinger at Laurentian  
University originally in Perceptual Motor Skills, 1987 -----  
Male and female subjects were exposed to alternating magnetic fields of 1 and 4 Hertz which were applied across  
their mid-superior Temporal lobes. In addition, a green light was pulsed in phase with the magnetic field while the  
participant was instructed to imagine an encounter with an alien. -----  
----- Rostral (at nose level) to the upper half of the ear, retractable arms were placed, each containing a 25 CM (1  
CM diameter) soft iron nail wrapped (1050 turns) with insulated wire (20 gauge). A function generator was used to  
drive the solenoids with sine wave current at either 1 HZ or 4 HZ. Magnetic field intensity was about 15 GAUSS at  
the skull surface. Field strength measured at the temporal cortex was 2 GAUSS. Maximum field strength as  
measured at the level of the frontal lobes was 200 MGAUSS (a 10 factor decrease). At the level of the hippocampus,  
field strength was 500 MGAUSS. All subjects generated elaborate imaginings when exposed to a green light  
flashing in sync with the driven solenoids. 4 HZ field imaginings included a sensation of rising or floating. The end  
result of the experiment was that hypnotic susceptibility may be increased following magnetic-field exposure but  
that the most effective frequency is different for each sex. The quantity of imagery generated (particular the floating  
sensations) INCREASED if the person observed a light flashing in sync with a 4 HZ applied magnetic field. Most  
interesting of all was that the magnetic field strengths were MUCH LESS than those expected to occur in  
NATURAL SETTINGS. ----- Vanguard Notes.. OMNI writer  
Dennis Stacy did an article on Persinger's research in December of 1988 (I think). It relates the UFO encounter  
phenomenon and how it could quite possibly be INDUCED by alternating magnetic fields of relatively low  
intensity. As I remember the article, Persinger was using a football helmet with multiple solenoids placed in a grid  
and supported over the skull. When the helmet was driven by a computer as a peripheral device (a printer), various  
patterns (characters) could be projected onto the brain of the subject to induce various effects. If any of our  
KeelyNet associates come across this article, we would appreciate a copy or uploading of the text that we might  
annotate and included it in a text file. ----- \_



August 24, 1990 LIGHT1.ASC ----- The following article was one that we came across at a lecture a few years ago. It first appear in The Los Angeles Times paper in February 17, 1980. R.B. ----- ROLE OF LIGHT IN HEALTH `Super Nutrient' Lacking in Most Artificially Illuminated Rooms, Scientists Warn. Tinted and dark glasses can harm your health and may depress your immune system and endocrine glands! A nutrient that travels at a speed of 186,000 miles a second from a source 93 million miles away rates with food, water and air as part of the life-support system on earth. It is light from the sun. But light also comes from manmade sources, and therein lies a number of problems. The wrong kind of artificial light can make students irritable in school, reduce production among factory workers and make office workers sluggish. Not enough of the right kind of light can interfere with calcium absorption in the elderly and contribute to brittle bones, scientific studies show. On the positive side, light can be used to control jaundice (using so-called "billy lights", UV) in the newborn. It also can boost beef production; cattle that spend "longer days" under correct artificial light are 10% to 15% heavier, with no increase in food consumption. The light that some scientists consider a "super nutrient" is full-spectrum light, which comes from the sun or from fluorescent bulbs of special design that simulate sunlight. (Actually, despite the designation of these artificial lights, they did not match the full spectrum of sunlight.) Incandescent bulbs and most fluorescent bulbs do not produce full-spectrum light. This may be contributing to "mal-illumination," say photo biologists, the scientists who specialize in the study of light's effects on living creatures. The science of photobiology is a recent one. Some photo biologists say doctors showed little interest in the subject until about five years ago. The American Society of Photo biology was founded only eight years ago. One way of rating light is by a color rendering index, the CRI. of 100. Full-spectrum fluorescent, 91; standard cool white fluorescent, 68; other fluorescent, 56. Under natural light or an artificial source that duplicates natural light, there is less human fatigue and stress and better visual acuity and production, studies have shown. Consider: - Plants grown under artificial lighting that comes close to duplicating full-spectrum sunlight can be made to flower on preset schedules by controlling day length. - In dairies, changing the length of light exposure from natural 9 to 12 hours of light to 16 hours of fluorescent light of the full- spectrum type increased the milk yield by 10% to 15%. - Full-spectrum light is used to treat psoriasis, neonatal jaundice and herpes simplex infections. Rays from sunlight stimulate the pineal gland, a pea-sized organ in the head. This gland secretes melatonin, a hormone that seems to control many bodily functions. When injected into animals, melatonin induces sleep, inhibits ovulation and modifies the secretion of other hormones. Experts say that both plastic and regular eyeglasses and contact lenses block some of the ultraviolet rays that travel through the eye to the pineal gland. -At the Center for Improvement of Undergraduate Education, Cornell University, Ithaca, N.Y., students working in a class with fluorescent light closely approximating sunlight experienced a significant increase in visual acuity and a reduction in overall fatigue, compared to performance under regular fluorescent lights. John Ott, of Sarasota, Fla., a pioneer in light and health research, for the last 50 year has been warning against unhealthy effects of some kinds of light. Earlier, he was rebuffed, but now there is basic research that supports his ideas. Ott said he first noticed strange happenings in living things under certain light sources when he was working on time-lapse photography for Walt Disney movies. At the Bronx Zoo curators credit full-spectrum lighting with helping the tufted puffin, a shy sea bird, survive in captivity. Under the influence of "indoor sunshine," the puffins, for the first time, laid eggs that hatched. Strange things happened in Burnett Park Zoo in Syracuse, N.Y., when sunlight-simulating lights were installed in an effort to stop vandalism. "The zoo became a veritable maternity ward," said director Charles T. Clift. "The cougars fell in love all over again and produced their fourth litter, we collected five goose eggs, at least 8 lambs were born, and the deer population increased by 20. Big Lizzie gave birth to a bear cub. The wallaby produced a new mini-kangaroo and the chimpanzee got pregnant." Phillip Hughes Ph.D., a scientist at Duro-Test Corp., North Bergen, N.H., said the Syracuse zoo's experience is just one example of the effects of natural-like light. Hughes is a vice president at Duro-Test, the firm that makes the most widely used full-spectrum fluorescent light, Vita-Lite. A specialist in neurological sciences, physiology and psychology, Hughes said. "Light is definitely a nutrient. It is essential to life and the whole endocrine system. Light has a role in triggering hormones. `Vitamin D is synthesized by ultraviolet in the skin. Vitamin D receptors help proper bone development and prevent development of rickets. Vitamin D facilitates the absorption of calcium. "Under light not closely approximating the sun, one study found calcium absorption dropped off in the elderly in the indoors in winter. But those under full-spectrum lighting had an increase in calcium absorption." In an upcoming book on holistic medicine, produced with funding from the National Institute of Mental Health, Hughes says: "Along with food, air, and water, sunlight is a most important survival factor in human life. Solar radiation activates other important biochemical events in our bodies involved in endocrine control, timing of our biological clocks, entrainment of 24-hour circadian rhythms, immunologic responsiveness, sexual growth and development, regulation of stress and fatigue, control of viral and cold infections, and dampening of functional disorders of the nervous system." He said the last two or three generations are the first to have spent three-fourths of their lives under artificial light. "We do not fully know the

effect," he said. The Russians know more than Americans, perhaps, about the health effects of various kinds of light. Under light that is full-spectrum, Russian scientific reports show, production goes up and absenteeism goes down. This kind of light is mandated in many Russian workplaces. In schools, it has been demonstrated in Russia, full-spectrum lighting or ultraviolet treatment helps academic performance, improves student behavior and lessens fatigue. The Russians practice light therapy on coal miners who spend their working day out of natural light. Once a day coal miners must disrobe and spend half an hour in natural light or under full-spectrum artificial lighting. Hughes said the Russians have reported that this regimen is useful in both preventing and treating black lung disease. "The Russian researchers and health specialists have documented that the body's tolerance to environmental pollutants is increased by full-spectrum light, which also increased the effectiveness of immunization procedures," he said. West Germany's government restricts the use of cool white limited-spectrum fluorescent bulbs in public buildings because of their distorted spectral output. Ott, the pioneer health and light expert, maintains that sodium vapor lights, now offered as the latest technological advancement, do not reproduce the full spectrum of natural light. "The Fort Worth, Texas school district was one of the first to install sodium lighting in perhaps a dozen schools. It was one of the first to take them all out because complaints of both teachers and pupils of headaches, eyestrain and other health-related problems," he said. Ott contends that another major problem with all gaseous-discharge types of lights, including the mercury vapor and limited-spectrum fluorescent light, is that they emit radiation that grossly weakens muscle strength, affecting both academic achievement and behavior. A recent Consumers' Research magazine report on the risk to health from some fluorescent lamps suggested new probes by industry and the government. "There are good reasons, in our opinion, for government agencies and industry engineers to initiate promptly laboratory research programs on the effects of the spectral characteristics of artificial lighting on animals used in research and on human beings," it said. A psychiatrist who uses light in his therapy is Dr. H.L. Newbold of New York. "Before we began civilizing ourselves into semi-invalidism, we received an abundance of full-spectrum light: the kind that nature provides for us in the form of sunlight," says Newbold, author of "Mega-nutrients for Your Nerves." "What we now get is a mere fraction of the spectrum." "Once we are all ensconced behind our office desks or in our living room armchairs, science efficiently furnishes us with electric light. "If your company is really up to date you are probably working under fluorescent light, which may be an industrial engineer's dream of perfection - but happens to be the most nutrient-deficient of all lighting devices. "Even ordinary light bulbs are preferable to the total artificiality of the fluorescent environment." Newbold uses full-spectrum lighting in his office and has a special plastic in place of glass in his office windows to allow the ultraviolet from natural daylight to enter. To let the ultraviolet from full-spectrum lighting into the pathway to the brain, he suggests special lenses for spectacles and contracts for his patients. In the treatment of yellow jaundice, newborns used to get complete blood transfers. That was until a nurse noticed that a jaundiced infant seemed to be getting better on his own. The infant's crib was near an open window, and natural light was streaming in. The babies near the wall and out of reach of sunbeams were not doing as well. So light treatment was tried on babies with jaundice, and it worked. Now, about 25,000 newborns a year get the treatment. In fact, three famous babies received the treatment some years ago at Columbia-Presbyterian Hospital in New York. Three of the Kienast quintts had jaundice, and they were cured by full-spectrum lighting. When they went home, it was to a nursery with full-spectrum light.

\*\*\*\*\* HOW LIGHTING AND GLASSES CAN AFFECT YOUR MOODS \*\*\*\*\* The type of lighting in your house and office can affect your mood and may even help prevent or cure arthritis and other diseases, an expert has revealed. Even the color tint of the lenses you wear in your glasses or sunglasses can rob you of energy by preventing certain light wavelengths from entering your system, according to John Ott, director of the Environmental Health and Light Research Institute in Sarasota, Fla. "Light is well documented that light entering the eyes influences the master glands, the pituitary and pineal glands, which control the entire endocrine system." Different kinds of lighting conditions include natural, unfiltered sunlight, incandescent light bulbs, fluorescent light, sunlight filtered through different kinds of glass, and sunlight reflected off different color interiors. In experiments on first grade students in Sarasota, researchers have found that children who work in a classroom with cool white fluorescent lighting are more hyperactive than students in another classroom with full-spectrum fluorescent tubes which duplicate natural sunlight but with shields to stop harmful radiation. "Under the standard, cool white fluorescent lighting, some first graders showed nervous fatigue, irritability, lapses of attention and hyperactive behavior," says Ott, author of Health And Light (Pocket Books, \$1.95). "Within a week after the new lights were installed, the children settled down and paid more attention to their teachers." Dr. Ott says that different kinds of lights can also affect the course of disease. Experiments with mice have shown that mice who live under pink fluorescent light develop cancer more quickly than mice who live under white fluorescent light and natural light. Tinted sunglasses can also affect you physically and psychologically because they block out certain colors of the light spectrum that you need for health, Ott claims. He says he persuaded a man with prostate cancer to stop wearing

pink tinted eyeglasses. "For three years he has worn new full-spectrum clear ultraviolet transmitting spectacles and, apparently, his problem has disappeared."

\*\*\*\*\* SPECIAL NOTES Our friends, Dean and Mary Hardy, authors of "Pyramid Energy Explained", told us that they see more people that have been getting mercury poisoning in their system. Through investigating where these people were living and their personal lifestyles, they found that in most cases, these individuals were being exposed to mercury vapor lighting systems. These people were found to be sleeping under street lights which were of the mercury vapor type. After a certain amount of time, the frequency at which mercury resonates would be absorbed into the body. Some of them blocked out the light which shined into their room which eventually corrected the problem. One observation I have made in my own workplace. A mercury vapor lighting system was installed on the outside of our building a few years ago. Since that time we seem to have a problem making grass grow in the area. We must now frequently replace the dead grass with new. Additionally, we seem to have a problem with insects. Of course, sodium lighting puts out a yellow light which drives insects away, so that might account for the insect problem. Additionally, we refer you to Tesla's idea that any RADIANT SOURCE was emitting extremely energetic and highly charged PHYSICAL PARTICLES. He indicated that this highly energetic matter could be picked up or accumulated using the proper techniques. Does this not then offer a possibility that the mercury vapor under the influence of high potential currents could be so projected as to accumulate in the body tissues?

\*\*\*\*\* For more information read: "Let There Be Light" (by Dr. John Ott), "Health & Light" Dr. John Ott "Color & Light: Their Effects on Plants, Animals & People" Dr. John Ott "Light, Radiation & You" Dr. John Ott The above book can be order from: Cancer Book House, Cancer Control Society 2043 N. Berendo Street Los Angeles, Ca. 90027 "The Principles of Light and Color" by Edwin D. Babbit (1878) Order from: Borderland Sciences -----

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July 6, 1990 PRIORE1.ASC ----- The Bordeaux Magnetic Machine There was once great interest in what was known as The Great Bordeaux Magnetic Machine Mystery, or L'Affaire Priore'. It was reported in the popular press, and in a number of papers in COMPTES RENDUS des SEANCES de l' Academie des Sciences since 1964, sponsored by Robert Courrier. The machine, built at the University of Bordeaux by Antoine Priore, a 62-year-old electrical engineer, was originally used to kill micro-organisms that produce rot in fresh vegetables and fruit. Subsequently, it was reported that wondrously beneficial effects on experimental subjects were obtained by the radiation emanating from the machine. Today, its primary use appears to be in cancer treatment of animals, where a large number of cures have been claimed, as described in further detail below. Of course, human treatment of cancer is the final goal. The machine is reported to be comprised of the following: 1) a large plasma tube excited by 430 V; 2) a magnetron oscillator (9.4 Ghz, 40 Kw peak), which pulsed on for 1 micro-seconds at a rate of 1 Khz; 3) two high frequency oscillators (17.6 Mhz and 15.8 Mhz) 4) and a magnetic field (1200 G) which confines the plasma and which is pulsed at a rate of 50 times per minute. ( G = Gauss a measure of magnetic field strength ) The magnetron and the two high-frequency signals are mixed in the plasma so that the 9.4 Ghz signal is modulated by the two high- frequency signals. The magnetic field at the table, where the subject is located, is about 600 G. (A second machine was also built which was capable of producing an active magnetic field of about 1200 G.) Several experiments have been carried out. Some of these are summarized below: 1. A cancerous tissue was grafted to laboratory rats. Twenty-four control rats died within 22-30 days. In those rats which had been exposed to radiation to the magnetic field from Priore's machine, the cancerous tissue was either completely absorbed, or, if the treatment was begun after cancer had started to spread, had regressed to the point of total cure. There were no observed bad side effects and there was no recurrence of the cancer. 2. A different and highly malignant strain of cancerous tissue, leukaemia, which can cause death in as little as two weeks, was grafted onto laboratory rats. Again, exposure to the radiation in the magnetic field resulted in the complete inhibition of growth of the cancerous grafts, or, if the disease had started to develop before the treatment was begun, to its total regression. 3. Mice were inoculation with a microscopic blood parasitic (Trypanosoma equiperdum) which causes sleeping sickness and death in short time. The course of the experiment could be followed closely by analysing blood samples taken daily. All control animals died by the fifth day. Mice exposed daily to the radiation and magnetic field survived (38 out of 46 animals) with complete disappearance of the parasites from their systems. They also developed a specific immunity to further infection. Animals exposed some days before inoculation appeared to have developed an immunity. 4. Rabbits, which develop a chronic illness when inoculated with trypanosomes from which they usually die after several weeks, were tested with the radiation in a magnetic field with the same positive results as described above. A twenty-man commission composed of well known men of science, medicine, law and other professionals, have begun and are continuing investigations into the claims made for this mystery machine. They have been able to report experimental findings, but have not been able to provide an explanation of the workings of the Priore equipment. Funding was provided by the French Government to construct a third and more powerful machine which cost 3.5 million dollars. It was called the M-600 and functioned for about one week until a huge tube in it exploded. Due to the inflation rampant in the early 70's, the replacement cost would have exceeded one million dollars which was felt to be too high to continue the project. The story of this remarkable work began in 1944 when Antoine Priore noticed some oranges which had been left in a room next to some electrical equipment. These oranges remained in a fresh state while others not near the electrical equipment became rotten and putrid. This anomaly intrigued young Priore to explore magnetic and electromagnetic effects on various plants. One of his earlier experiments was the exposure of lentil seeds to a magnetic field of 225 gauss at electromagnetic frequencies of 80, 32, 3 and 10 Hertz. This caused the lentils to grow 12-15 centimeters in length as compared to only a 5 centimeter growth for controls not subjected to the same treatment. The effect proved similar for asparagus, tulips, and other plants. Hens' eggs were then exposed to the same energies which brought about hatching in 19 days as opposed to the normal 21 days. Later research using cancerous tissue yielded partial or total remissions when exposed to these energies. Similar reports of tumor regressions were obtained by Kenneth McLean with the use of a 3000 gauss or greater magnetic field. Later tests made by Biraben and Delmon using a field strength of 4500 gauss on T-8 tumors had not the slightest trace of remission. This showed that there was obviously something besides a magnetic field at work. Tests made with the Prior machine on cancer tissues ALWAYS caused total remission in all tissues exposed to the peach blossom violet color which the machine emitted. The machines of Antoine Priore were dismantled shortly after his death in the early 80's. Time will tell whether this has been a great hoax, whether the French Government and numerous well known scientists have supported a charlatan, or whether mankind has stumbled on a revolutionary scientific development. ----- Vanguard note... It is interesting to note that T. H. Moray advocated the use of a 'peach blossom violet' ray for the dissolution of cancerous tissue which formed on his hands when working with radioactive material....in addition

Dinshah speaks of the violet/magenta ray for healing various cancers. -----  
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01/31/90 MIND1.ASC ----- this information provided to KeelyNet courtesy of (the late) Jerry Gallimore Radio Waves & Life by Tom Jaski Electronics - September 1960 In a recent editorial (August, 1959), Hugo Gernsback called for a serious reappraisal of the effects of radio waves on human and animal physiology. In view of the almost casual use of high- power radar and industrial RF (radio frequency) heating equipment, this is certainly a timely word of warning. It is not surprising then that the Air Force is already keenly aware of these problems, and has a number of projects under way to discover the exact effects of high-intensity radar pulses and microwaves on human and animal tissue. These projects are being carried out at our major universities, each specializing in one particular frequency. For example, the project at the University of California, under the direction of Prof. Charles Suskind, is primarily investigating the effects of 3-CM radar energy. Test subjects are mice, ants, and yeast cells. Thermal Effects Of great importance, and therefore under intensive investigation, are the thermal effects of such waves, and these have been measured rather precisely under a variety of conditions. Using mice as subjects, it was found that near-lethal doses of radiation do not seem to cause any pathological changes in them, and that the lethal effect is primarily an overtaxing of the mice's temperature-balancing system. It was found that the major heating effect took place immediately under the skin, but of course heat generated there is rapidly distributed through the body. The temperature of the mice was monitored continuously. The photograph shows zoologist Susan Prausnitz monitoring the temperature of a mouse suspended in the wire cage right in front of the waveguide just visible on the left. The mouse is slowly rotated to insure even radiation over the entire body. Death occurred in 50% of the mice when a critical temperature of 44.1 Centigrade was reached. Other interesting findings include the fact that radar waves appear to have no significant effect on the fertility of the male mice. The effects of radar waves on the longevity of the mice are currently being investigated. An intensive series of experiments was carried out on cellular organisms, such as yeast cells, but, other than showing thermal effects, the experiments with insects such as ants delivered relatively minor data. But one interesting item which emerged was that the ants, normally moving every which way, in a Petri dish, will all line up in a 3-CM field, aligning their antennas parallel to the field, apparently to minimize the effects. The project is continuing, and more research on mice, ants and other animals is contemplated. Psychological effects will be looked into. One promising item in the ant experiments was that the ants which were exposed to 3-CM waves apparently lost the ability, at least temporarily, to communicate the source of food to their fellows, as ants usually do. It may be significant that the large ants used have antennas which measure very nearly one-fourth the wavelength of the 3-CM radiation. Incidentally, mice are so frequently used for this kind of experiment because they are easily handled, easily obtained and relatively inexpensive, while their physiology and metabolism bear a useful resemblance to human counterparts in some ways. The life span of a mouse is limited, permitting experimenters to evaluate genetic effects over several generations. Meanwhile other service branches are carrying out research programs concerned with the effects of radio waves on animal life, not necessarily limited to radar frequencies. A public announcement by scientists at the National Institute for Neurological Diseases concerning the LETHAL EFFECTS of 388-MC radio waves on monkeys also shows there is great interest in other frequencies and effects BESIDES THERMAL. Some Early Reports As long ago as 1930, Nrunori claims to have seen evidence that the human organism "radiates" and "reacts to" radio waves of 2.33 meters and its harmonics - in other words: 129, 258, 387 and 596 MC (megacycles i.e. million cycles per second). This brings to mind the work of a man who started publishing articles on this kind of subject more than 35 years ago. An Italian university professor named Cazzamalli placed human subjects in a shielded room, subjected them to high-frequency radio waves, and claimed to be able to record a "beat" which, he RECEIVED ON A SIMPLE UNTUNED RECEIVER consisting of a galena crystal, a small capacitor, antenna and sensitive galvanometer. Cazzamalli's equipment, as well as it can be determined from his early articles, is shown in Fig. 1. The one item which he never mentions, perhaps because he could not accurately determine it, is the POWER OF HIS TRANSMITTER. He published oscillograms purportedly showing VARIATIONS of the "beats" when his subjects were EMOTIONALLY AROUSED OR ENGAGED IN CREATIVE EFFORTS. Later experiments delivered much more startling results: he found that some of his subjects would HALLUCINATE under the influence of the high-frequency radio waves, which ranged all the way up to 300 MC. The Cazzamalli experiments were carefully duplicated with modern equipment, of much greater sensitivity than his. His "oscillatori telegrafica" (presumably a transmitter as used for wireless telegraphy) was replaced with a very modest low-power oscillator. The reason for this was twofold. In the first place, university authorities take a very dim view of experiments on human beings, even if these subjects are the scientists themselves, volunteering for the part. Second, a previous experiment had indicated in a rather startling way that POWER WAS NOT REQUIRED TO EVOKE EFFECTS IN THE HUMAN NERVOUS SYSTEM. In fact, there seemed to be SOME SORT OF RESONANT FREQUENCY APPLICABLE TO EACH INDIVIDUAL HUMAN. Effects on Humans That experiment was suggested by the behavior of the monkeys we cited. These animals went through a sequence of behavior which would indicate that something besides thermal effects was operating. To discover if this "something" was subjectively noticeable by an

individual, a weak oscillator swept through the band of 300 to 600 MC with the request that the subject indicate any points at which he might notice anything unusual. The subjects were not allowed to see the dial. AT A PARTICULAR FREQUENCY BETWEEN 380 TO 500 MC FOR DIFFERENT SUBJECTS, they repeatedly indicated a point with ALMOST UNBELIEVABLE ACCURACY (as many as 14 out of 15 times). Subsequent experiments with the same subjects showed that at the "individual" frequency, STRANGE THINGS WERE FELT. Asked to describe the experience, all subjects agreed there was a definite "pulsing" in the brain, ringing in the ears and a DESIRE TO PUT THEIR TEETH INTO THE NEAREST EXPERIMENTER. The oscillator in this case was putting out only MILLIWATTS OF POWER, and WAS PLACED SEVERAL FEET FROM THE SUBJECT.

Optical and Growth Effects It was not the first time that such phenomena had been observed. Van Everdingen, a Dutch scientist, had discovered many years ago that radiation would affect the heartbeat of chicken embryos, when he was experimenting with the effects of high-frequency radiation on growth (specifically working toward any effect it might have on malignant growths). Van Everdingen used 1,875 MC and 3,000 MC and discovered that this kind of radiation WOULD CHANGE THE OPTICAL PROPERTIES OF A GLYCOGEN SOLUTION. Glycogen is a substance which provides our muscles with energy! Van Everdingen found that this change of optical polarization had some CONNECTION WITH TUMOR GROWTH. He proceeded to RE-ROTATE THE POLARIZATION IN EXTRACTS OBTAINED FROM TUMOR-PRODUCING MICE. When this optically "pure" substance was injected into mice with malignant tumors, and these mice were kept on a diet free of animal fats, THE TUMORS WOULD CEASE TO GROW. Only radiation at UHF (ultra-high) or SHF (super-high frequency) would produce these effects in the substances he used. But Van Everdingen was not the only one who discovered important facts about radiation on living tissues. Years before, a Frenchman name Lakhovsky claimed to have removed tumors from patients with high-frequency radiation treatments, and his book, THE SECRET OF LIFE, has a number of attestations in it from grateful patients who were cured. Lakhovsky stated that healthy plant growth is materially aided BY PLACING A COPPER RING ABOUT 8 INCHES IN DIAMETER and supported on an insulating wooden stick (Fig. 2) AROUND THE PLANT. So-called tumorous growths on plants disappeared withing such a ring. Lakhovsky's experiment with plants has been duplicated successfully. But then we should also noOe that the same kind of thing has been done by a group of devout citizens using GROUP PRAYER! But the people who have published the most data on the subject of UHF radiation effects on animals and human subjects are the Russians. In BIOFISICA, the Russian biophysics journal, a scientist named Livshits published two survery articles on the work that had been in this field by 1958 and 1959. They are too extensive to repeat in great detail here, but some of the more impressive highlights will be reported. Many experiments were carried out on animals with conditioned reflexes, and one by Glezer showed that a WEAK UHF FIELD would INHIBIT THE CONDITIONED REFLEX, indicating that some inhibition of the cortex was taking place. As in Van Everdingen's experiment with chicken eggs, Pardzhanidze showed that the EEG's of rabbits were DRASTICALLY CHANGED WHEN THE ANIMALS WERE SUBJECTED TO A UHF FIELD. Bludova, Kurilova and Tikhonova showed that the field produced AN INCREASE OF SENSITIVITY IN THE RETINA, and simultaneously REDUCED THE AREA OF COLOR SENSITIVITY. It is interesting to speculate how this would correlate with the Land effects. (Land, of Polaroid camera fame, has shown recently that our concepts of three-color vision seems to depend primarily on the presence of two images STIMULATED BY TWO DIFFERENT FREQUENCIES OF LIGHT!) Turlygin similarly showed that the sensitivity of the eyes of dark-adapted@subjects at marginal levels was INCREASED AS MUCH AS 100% BY THE PRESENCE OF A UHF FIELD. Nerve Effects Of importance in the light of Lakhovsky's claims is the experimnt by Grigoreva, who showed that short exposures to UHF would EXPEDITE THE REGROWTH OF SEVERED NERVE TISSUE, while prolonged exposure would SUPPRESS THE REGROWTH. A fact discovered many years ago is that a UHF field will have an AN LGESIC (pain-reducing) effect on nerves, and radiation therapy of patients with painful diseases such as arthritis is fairly common practice here and abroad. If the field gets very intense, the situation reverses, and the effects on the nerves can be extremely painful, as Lebedinskii reports. Numerous experiments are cited which deal with the simultaneous effects of various kinds of drugs, stimulants and toxins, and UHF fields. Many of these deal with very specific reactions and conditions, and any generalization would be rather meaningless. One particularly was of interest because of its relation to the experiments of the late Pavlov, the father of the conditioned reflex. This experiment shows that the field INCREASES THE SECRETION OF HISTAMINE IN THE STOMACH, and in related experiments that the secretion of digestive juice which was artificially stimulated by such drugs as atropine is MATERIALLY REDUCED BY THE FIELD. Closer to home, we find that Hugh Fleming at Oregon State College carried out experiments on the effects of HIGH-FREQUENCY EFFECTS ON MICROORGANISMS. F<sup>1</sup>/<sub>4</sub> Fleming used radiation at frequencies varying from 10 meters to 90 CM (30 to 270 MC). One result was that the RATE OF GROWTH OF CELLS WILL INCREASE to a certain power level, and then will SHARPLY DECREASE. TIME OF EXPOSURE and CONDUCTIVITY OF THE MEDIUM are IMPORTANT VARIABLES (as was also discovered by Van Everdingen, who also found the VISCOSITY OF THE

MEDIUM to be MOST IMPORTANT). Summing it up Now what does all this mean in terms of Mr. Gernsback's warning statement? If you consider the few items we have been able to quote (more detail can be found in the articles cited in the bibliography), it is obvious that WE ARE IN SOME WAY SUSCEPTIBLE TO RADIO WAVES, and that our susceptibility IS NOT NECESSARY LIMITED TO A PARTICULAR FREQUENCY. Nor are large amounts of power required to produce some of the effects within us. But precisely what these effects are, we understand not at all. Van Everdingen points out that the possibility of molecular resonance, AFFECTING THE CHEMICAL BONDS in our very substance. The egg experiments certainly indicate some sort of interference with the cortex (our "gray matter") which MAY AFFECT OUR THINKING AND OUT CONTROL OVER THE "BASER" DRIVES (generally considered to be generated in the lower sections of the brain, but normally controlled or inhibited by the cortex). Our physiological functions, such as our digestion, our ability to see and recover from damage when nerves are involved may well be drastically affected if we are subjected to a high enough power level. Tumors may be inhibited BY THE PROPER KIND OF RADIO WAVERS yet, in other cases, particularly when coupled with the "wrong" kind of DIET, radiation may also PROMOTE THE GROWTH OF TUMORS. (This too was demonstrated by Van Everdingen in Holland). WE DO NOT KNOW IF OUR LONGEVITY WILL BE AFFECTED. Certainly we should consider the possibility that there may be SOME RELATIONSHIP BETWEEN THE INCREASE OF CANCER AND THE AMOUNT OF RADIATION we indiscriminately spew into the atmosphere. Or even that there may be some connection between that radiation and our SHARPLY INCREASING CRIME RATES. We simply do not know enough about the effects, but what little we do know would tend to make Mr. Gernsback's warning all the more urgent. For while there is nothing lethal about the doses of radio- frequency energy we absorb daily, neither is there anything lethal in the STEADY DRIP OF WATER ON A MAN'S FOREHEAD - but it was effectively used by medieval torturers to drive him completely out of his mind. Perhaps we have a responsibility to mankind, before we fill in all the gaps in the radio spectrum, to discover once and for all if we are affecting human life on this planet. And if so, in what manner, as we finally had to do for another surprise out of Pandora's box, man-made radioactivity. ----- We felt this

would be of extreme interest to our users since it provided such a wealth of detail as to frequencies and specific effects. It is directly related to Mind Control techniques as we have seen from other papers. These will be included if we can get the authors permission to type it all in. If we can be of further service or you wish to share information on this topic or others of interest, please upload to KeelyNet or send to the Vanguard Sciences address on the title page. One of our primary purposes is to network and share information. We believe that is the optimum means of inducing change. We believe, encourage and practice the concept of Shareware. What is shared is returned at least 10 fold as we have seen in our experience, if not with us, then with others who will pass it on. Thank you for your support! ----

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