

## Creating a New Functional Model of Body Healing Energies

By

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### Introduction

What I have decided to do in this paper is to begin at the bottom line, to present the major conclusion and then proceed to develop the justification for this conclusion.

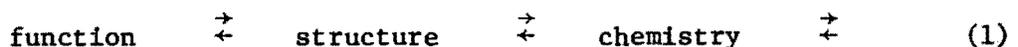
My conclusion is that we are elements of spirit, indestructible and eternal, and multiplexed in the Divine. And we contain a mechanism of perception which is the Mind. In my modeling, it consists of three levels-- the instinctive, the intellectual, and spiritual mind (which correlate with different lobes of the brain). In this modeling, the Mind is postulated to function in a 6-dimensional space lattice. This Mind creates a vehicle for experience and we, the Spiritual Being plus perception mechanism, invest ourselves in that vehicle which runs a continuously programmed course. The stuff used for the construction of the vehicle or simulator, if you like, is of two conjugate natures. One, that which is electrical in nature traveling at velocities less than that of electromagnetic light, is of positive energy and positive mass and it forms the physical part of the vehicle. The second, that which is magnetic in nature traveling at velocities greater

than that of electromagnetic light, is thus of negative mass and negative energy and it forms the etheric part of the vehicle. The total sum of these two energies is zero as is the sum of their entropies. So the total simulator or vehicle is created out of empty space, the space of the Mind, via a fluctuation process. Thus, this vehicle world is just the "world of appearances and form," the world of relative reality that we shape with our minds. Outside of that is the Absolute! However, we are in that simulator and when we talk about Holistic Health and a New Medicine, it must be the medicine of that stuff, that simulator stuff.

The foregoing is the "bottom line"; now let us try and develop justification for this view.

#### Rationale

The approach to be used is to consider how medicine, biology and agriculture have looked at living organisms in the past, in the present and how I think they will in the future. Basically, this society has looked at a living organism as operating via the following sequence of reactions:



If there is a flaw existing at the function level, it is traced to a defect existing at the structure level and that, in turn, to some imbalance in the chemistry of the system at the time of evolution or development. Like any simple chemical reaction equation, one gets the idea that if you want to fix function, what you do is you pump in chemicals to drive the reaction to the left. That is what has been done in the past, but the dilemma with that

approach, as we know, is that the organism, ourselves, becomes adaptive to the chemical elements and so do the bugs that live in us and are causing us problems. Thus, one must escalate the potency and next, one escalates the sophistication of that molecule, etc. Eventually, the adaptation of the organisms to the chemicals brings one to such levels of potency and complexity that the secondary reaction in the organism and in the ecosystem become unacceptable. I think we have reached that stage and now recognize that we must follow a different path.

Actually, instead of eq. 1, medicine today has proceeded to eq. 2 and recognizes that electromagnetic fields are also of

$$\text{function} \leftrightarrow \text{structure} \leftrightarrow \text{chemistry} \leftrightarrow \text{electromagnetic energy fields} \leftrightarrow \quad (2)$$

significance in influencing organismic chemistry, structure and function. We know this through the use of x-rays, diathermy and a variety of other procedures. We know from the brain electrode studies that small electric currents between certain specific points in the brain give rise to the same behavioral changes that are observed with certain brain-stimulating chemical intakes<sup>(1)</sup>. From Becker's work<sup>(2)</sup>, one sees that the application of very small electric currents to the body markedly enhances fracture healing. When he applied, via an inhomogeneous electric field, a D.C. current between  $1-1000\mu\text{A}/\text{mm}^2$  to cells, in vitro, a marked increase in cell regeneration occurred. When the current was increased beyond  $10,000\mu\text{A}/\text{mm}^2$ , cell degeneration began to occur. Thus, both the application of current and specific levels of current application (small levels) were shown to be beneficial for the system.

We have only to look at the area of hypnosis to recognize how the

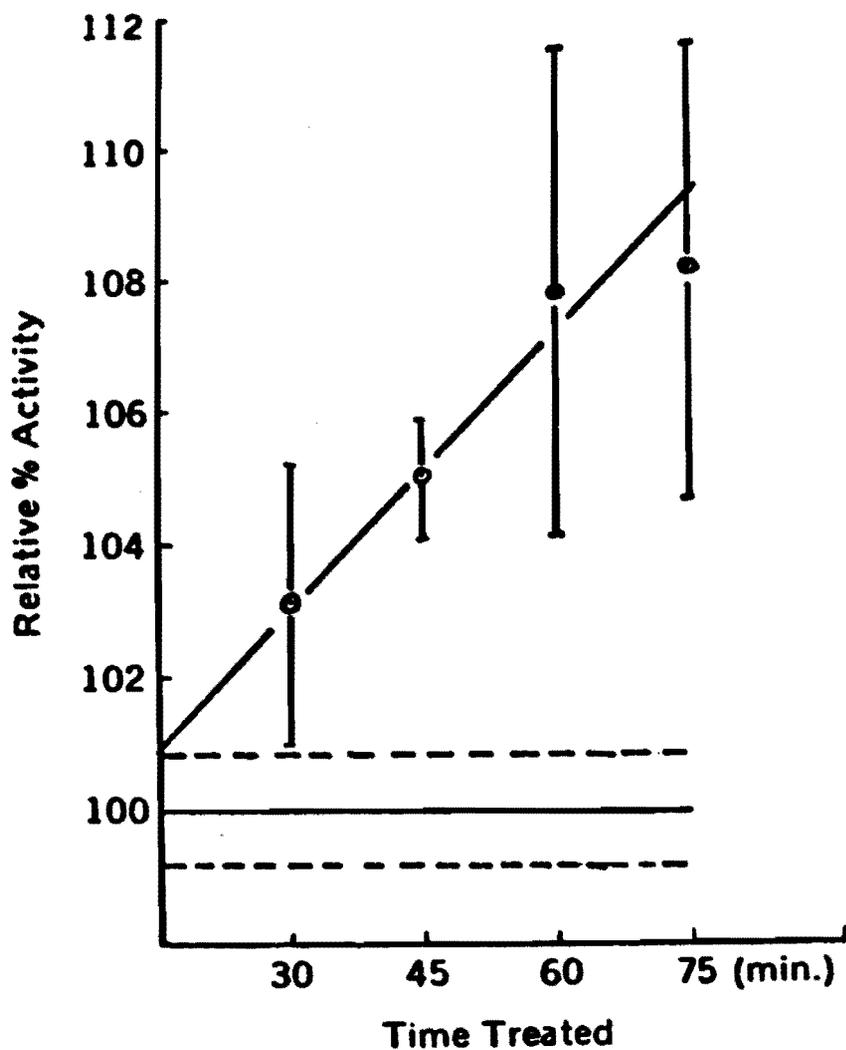


Fig. 1. An average of 8 sets of experiments in which native trypsin solutions were exposed to UV irradiation which decreased the activity by 20-35% prior to treatment. The broken line shows the size of the standard deviation of the mean standard deviation of the control.

subconscious mind, and the entrance into it, can greatly change the function of the organism. Clearly, we must have another term in the equation which is mind, as shown in eq. 3.

$$\text{function} \rightarrow \text{structure} \rightarrow \text{chemistry} \rightarrow \begin{matrix} \text{electromagnetic} \\ \text{energy fields} \end{matrix} \rightarrow \text{mind} \rightarrow \quad (3)$$

We see from the conscious level, via the work with Aikido, Zen, Yoga and the present biofeedback work, how much one can influence the functioning of his physiological simulator by the use of the mind. One has really only to observe Jack Schwartz for a short period, while he sticks needles through his arms and can let himself bleed or not, depending upon his whim, to recognize how strong is the influence of mind on this particular reaction equation (eq. 3).

I happen to think that there exists another set of terms belonging in the reaction equation between the terms for the mind and the electromagnetic energy fields and so let us now look at some evidence for this. From this, we shall see why it is necessary for us to change our world picture, our world view, and see what direction the change must be.

If we look at some of the experiments of Sister Justa Smith<sup>(3)</sup>, who did work with the enzyme Trypsin in a glass of water, she found that ultraviolet radiation reduced the enzymatic activity and that it could be restored by placing it in a strong D.C. magnetic field (~ 10 K Gauss). She then did studies with a particular healer who placed hands upon a glass of water with U.V. degraded Trypsin for a period of time and found that the enzymatic activity was restored, as indicated in Fig. 1. The effect of a 10 KG magnet would lie just under the data points for the healer. Thus, we can see the effect of what we

think is essentially a nonphysical quality having a cascading effect into what we think of as a particularly physical quantity--the enzymatic activity. Dr. Ed Brame<sup>(4)</sup>, using an internal-reflection infrared spectroscopy technique, has been studying the water treated by healers and finds that the vibrational states of the water change. All of the water is no longer hydrogen-bonded. In Fig. 2, we see the normal vibrational mode of the hydrogen bonded water, at 2.8 - 3.2  $\mu\text{m}$ , to be reduced in the healer-treated water and a new vibrational mode, at 2.6 - 2.8  $\mu\text{m}$ , developing in this treated water. In this particular sample, about 3% of the water was not hydrogen-bonded. Using a healing group sitting in a circle around a jar of water while mentally focusing healing attention on the water, as much as 8% of the water was found to be non-hydrogen bonded<sup>(4)</sup>. Similar effects were found if D.C. magnets (coated with teflon) were placed in the water for 15-30 minutes. So again we see a correlation between D.C. magnetism and healing energies. Dr. Miller, working with Olga Worrall, has found that the surface tension of healer-treated or magnet-treated water was reduced about 20% and then recovered slowly with time (see Fig. 3)<sup>(5)</sup>. Studies in Czechoslovakia<sup>(6)</sup>, using hand passes or magnet passes on water, find the generation of small quantities of hydrogen peroxide ( $\text{H}_2\text{O}_2$ ) in the water. Thus, a very distinct chemical reaction shift occurs associated with the energy field interaction of the healer or the magnet. Again, we see that what we think of as a nonphysical quality produces a variety of definite physical effects through the agency of intention.

In Japan, Motoyama did a nice piece of work<sup>(7)</sup> with both a normal subject and psychic subject who were in a laboratory but separated by several rooms

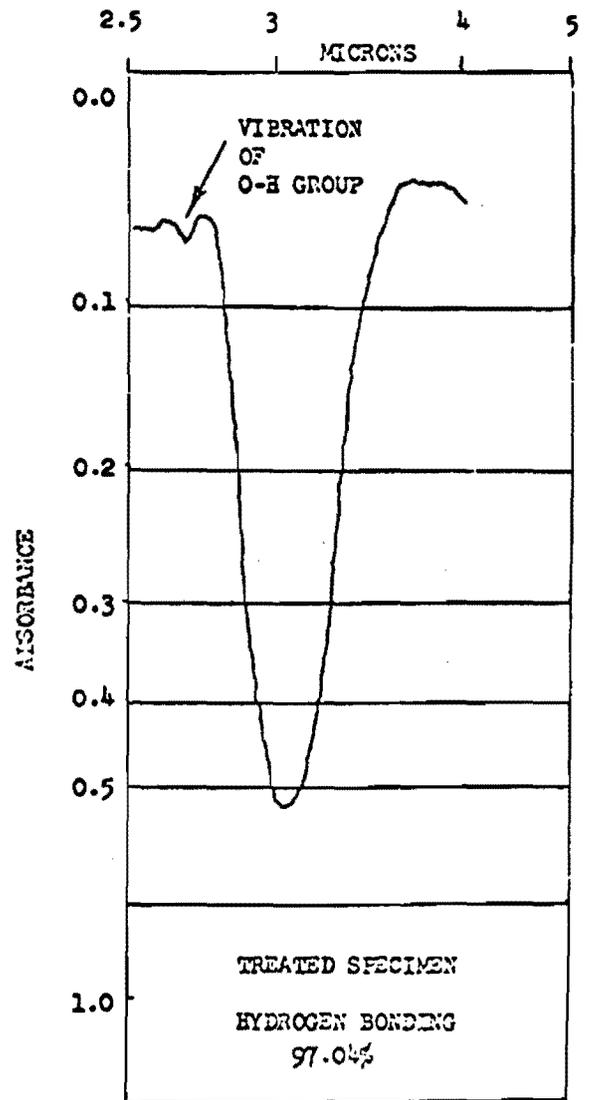
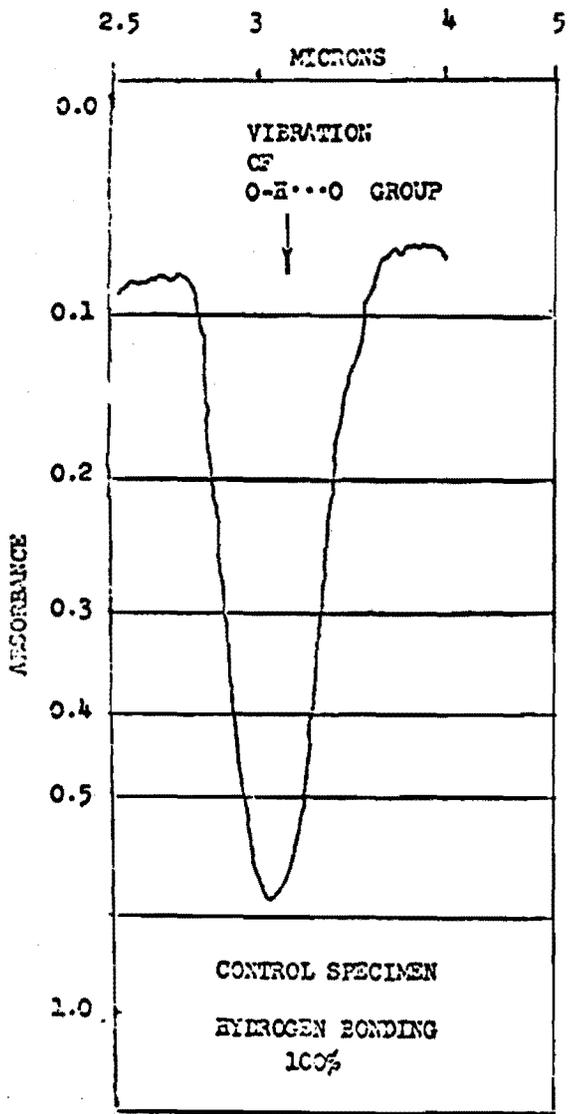


Fig. 2. Infrared internal-reflection spectra of distilled water and distilled water which was energized by healer, Olga Worrall.

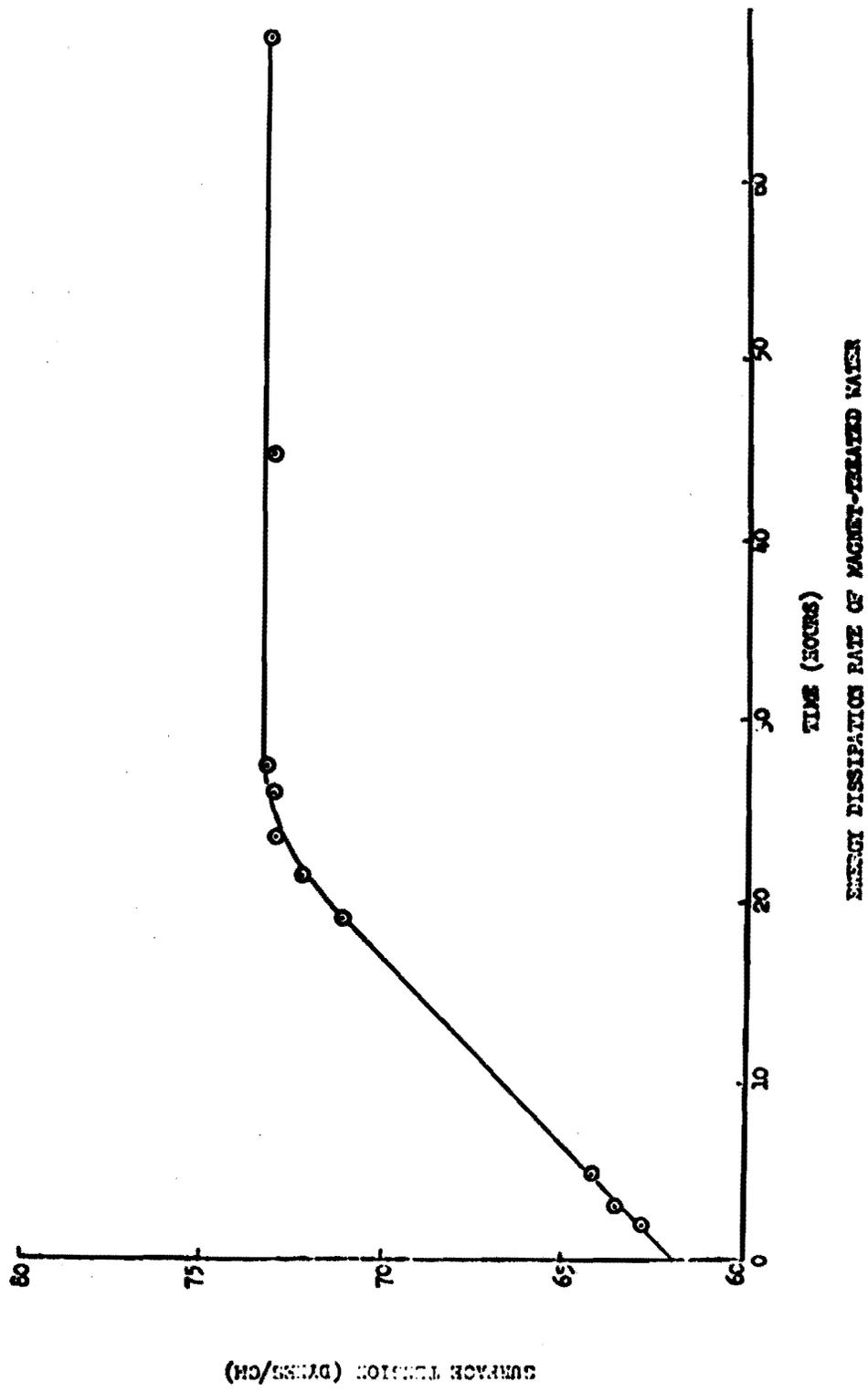
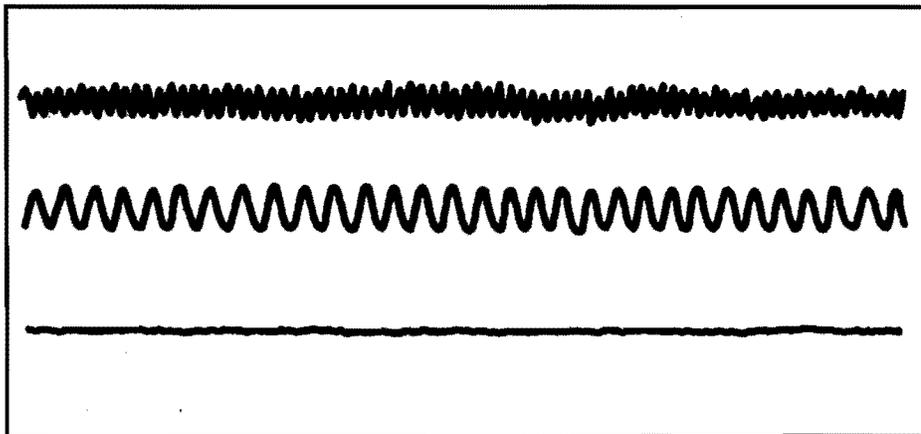


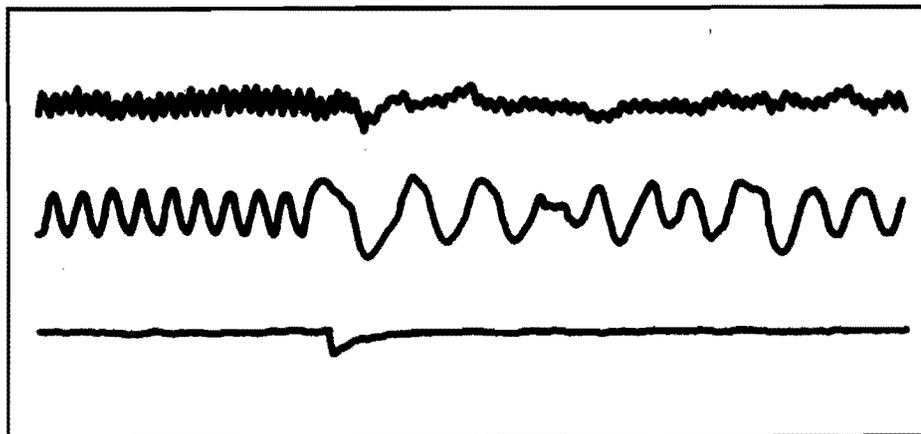
Fig. 3. Energy transfer from magnet-treated water showing relaxation of water surface tensions back to its normal value.

and their own rooms were shielded by concrete walls lined with lead. The non-  
psychic individual was monitored for respiration rate, blood-flow rate and  
galvanic skin response and, at an appointed signal, the psychic subject  
tuned in on the non-psychic subject and abrupt changes in the physiological  
recordings were immediately noted, as demonstrated in Fig. 4. This is very  
interesting but also a little scary. We performed a somewhat similar type of  
experiment in my own laboratory with somewhat similar results on a couple of  
occasions; however, we couldn't reproduce the effects all the time so, obviously,  
some key protocol elements are unknown to us. Clearly, the transfer of some-  
thing from one location to another occurred without what we think of as con-  
ventional energy passage.

Proceeding further, when I was in Russia in 1971, I had the opportunity  
to directly observe Nelya Kulagina perform psychokinesis<sup>(8)</sup> and saw pictures  
of her levitation feats. More recently, I was visited by representatives of  
the Transcendental Meditation movement, who showed me their interesting  
sequence of slides covering their levitation studies being carried out in  
Switzerland. There, a large number of individuals seated in the lotus position  
have, following a certain meditational practice, lifted off the ground one to  
several feet and translated horizontally for about five to ten feet (not in  
a ballistic trajectory) to a gentle landing. We shall see in the modeling  
provided later that this is a perfectly reasonable thing to do; it is just  
that we haven't gotten around to it up to now and, although our conventional  
physics doesn't really accept it as possible, it is possible in the proposed  
new modeling.



(a)



(b)

Fig. 4. (a) From top to bottom, plethysmogram, respiratory and galvanic skin resistance recordings in an ordinary person occupying a shielded room before the period of mental concentration by a psychic person occupying a separate shielded room.  
 (b) Recordings after the psychic person's period of mental concentration began.

Figure 5 is an illustration from some of the work of John Taylor<sup>(9)</sup> who has been studying some young children performing Geller-like feats of metal bending. They take an aluminum bar about 3/16 inch square and about 1 foot long, place it in a transparent perspex tube and insert end caps which are then sealed by wax. The children come into rapport with the tube by rubbing it gently and one often finds that the bar begins to bend until it forms this S-shaped configuration of Fig. 5--and the end caps are still sealed! Interestingly enough, the more cold work they initially put into the aluminum bar, the easier is it for the children to perform this type of feat. This is interesting because it is just the opposite of what one would expect from an effect at the purely physical level. It is almost as if, when you put in information of one kind, it is easier to transform it into information of another kind; i.e., strain energy information transforms to conformational information. In Paris, Mr. J. P. Girard performs even more remarkable feats<sup>(10)</sup>. Small metal spikes are placed in quartz tubes and flame sealed at both ends and, holding them in his own hands, or in the hands of another nearby, he is able to cause the spike to bend without any changes taking place in the quartz. This doesn't work with everyone but only with those for whom he feels an attunement, with whom he feels he can have a good energy relationship.

Figure 6 relates to a study of auric sight in children being conducted by Dr. Jim Carlton and the author<sup>(11,12)</sup>. The children, standing about ten feet away, gaze into the air space between the two parallel electrodes, to which a voltage difference is applied, and describe the energy patterns they observe as the voltage is changed. Some adults can observe the patterns but they are not as natural in their reporting as the children. The pattern one

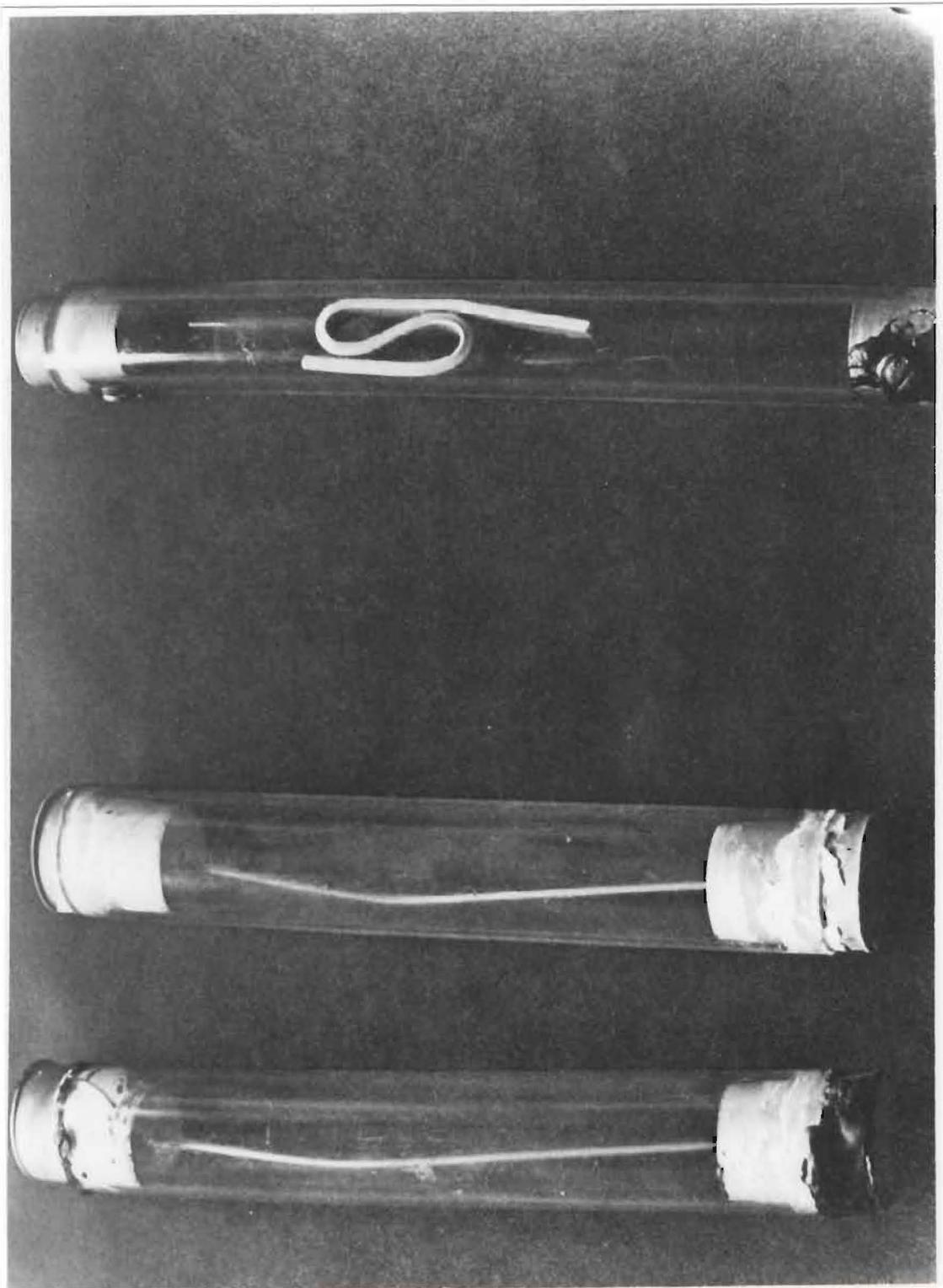


Fig. 5. Distortion of an initially straight strip of aluminum sealed inside a plastic tube. An 'S' bend was specified by the 15-year old subject (tube seals unbroken).

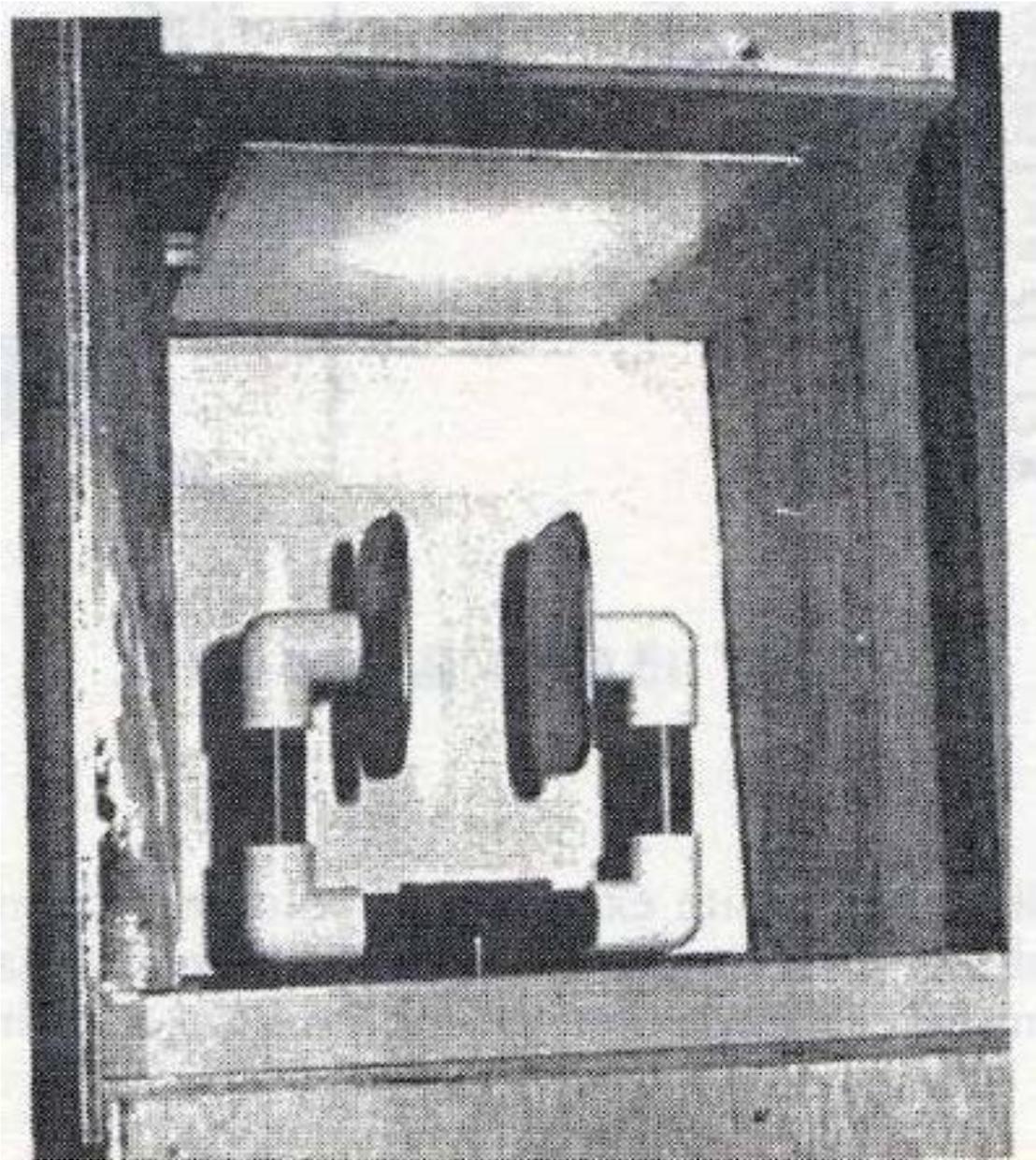
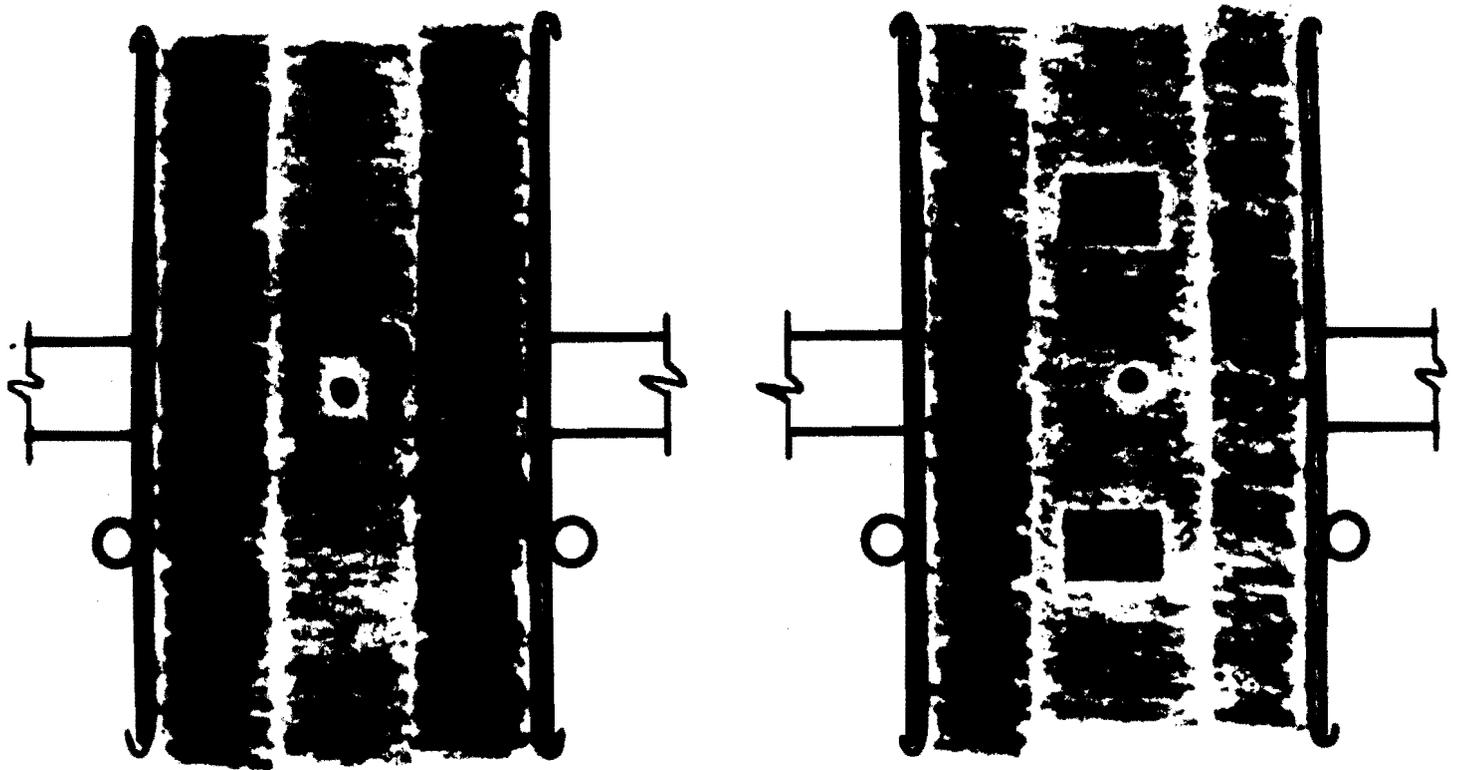


Figure 6. Interior air space of 'Punch-and-Judy' type of box containing electrodes where the subject views the auric manifestation.

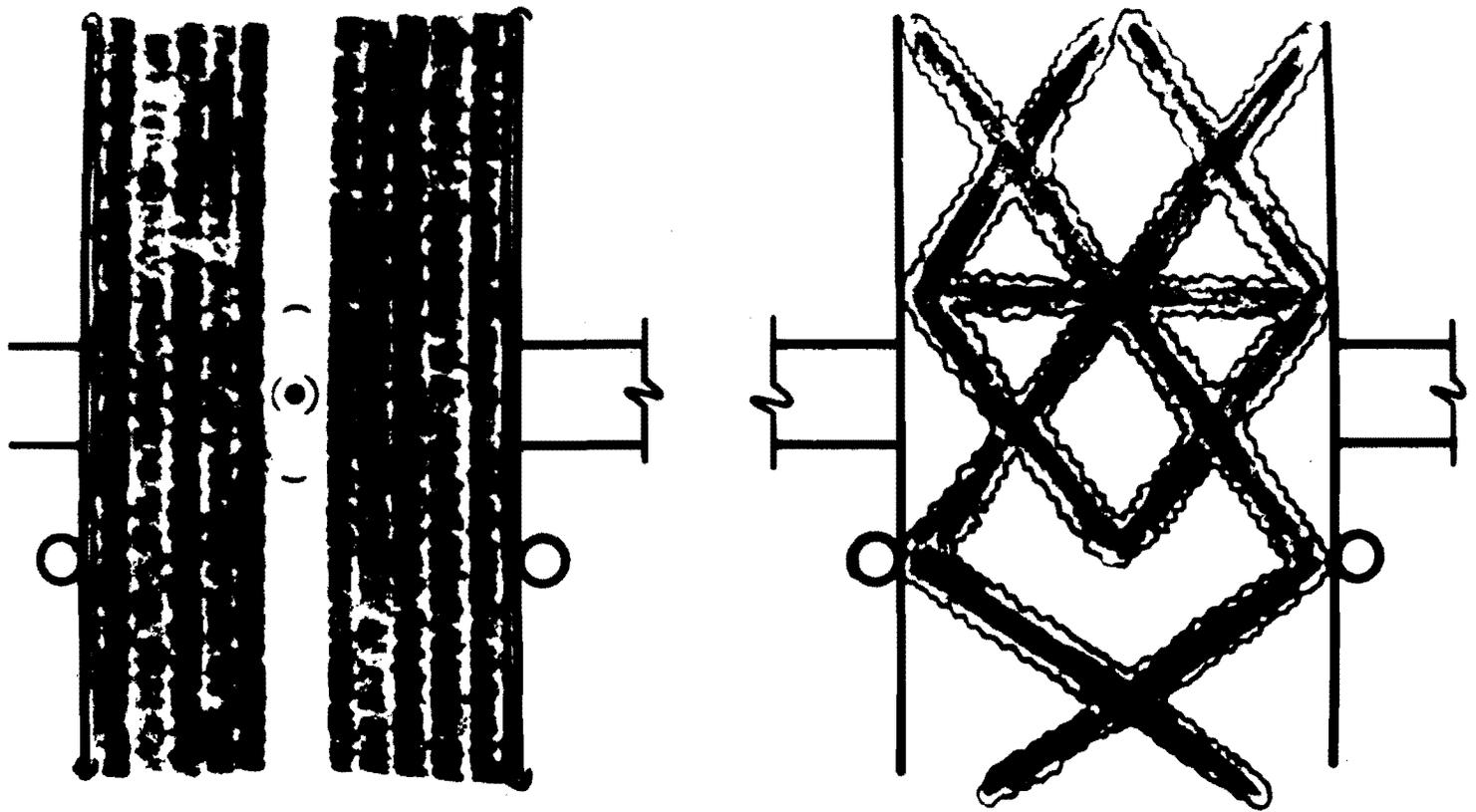
child observes in the voltage range 500 V to 7500 V is presented in Fig. 7. When the voltage is changed to ~ 15,000 V, the pattern observed shifts to that given by Fig. 8. As one increases the voltage from 0 to 15,000 volts, a number of abrupt pattern changes occur. On any one day, a particular child will see the same set of patterns in the early morning or afternoon or evening as the voltage is increased to the maximum and decreased again to zero. However, on another day, at the same set of voltages, he will generally not see the same set of patterns and, on the same day, another child will not see the same patterns at the same set of voltages. Thus, there is some objective part to this but some subjective part as well. It is found that the more imaginative is a child in his normal daily routine, the more pattern changes does he detect in the 0-15,000 volt range.

Relative to his theoretical model, the author, postulating that this auric phenomenon involved superluminal radiation, predicted that if the children measured the size of a feature in one of the patterns with the unaided eye and then measured the same feature using a simple telescope, a demagnified image and an erect image should be observed. This is just the opposite of what would be expected for our normal physical eyesight in the observation of light. This experiment was carried out and indeed the opposite of our normal experience was obtained with a group of children<sup>(12)</sup>. The next prediction was that if a light beam was caused to enter a prism that was placed in an electric field, the children should not only observe the refraction of physical light traveling slower than it does in vacuum to provide the optical spectrum first studied by Newton, but they should also observe, with the auric sight, a light spectrum due to a radiation that is traveling



**VIEWS AT 500 & 7500 V.**

Fig. 7. Views of subject's auric manifestations at 500 V and 7500 V using the electric field.



**VIEWS AT 15,000 & 16,500 V.**

Fig. 8. Views of some subject's auric manifestation at 15,000 V and 16,500 V using the electric field.

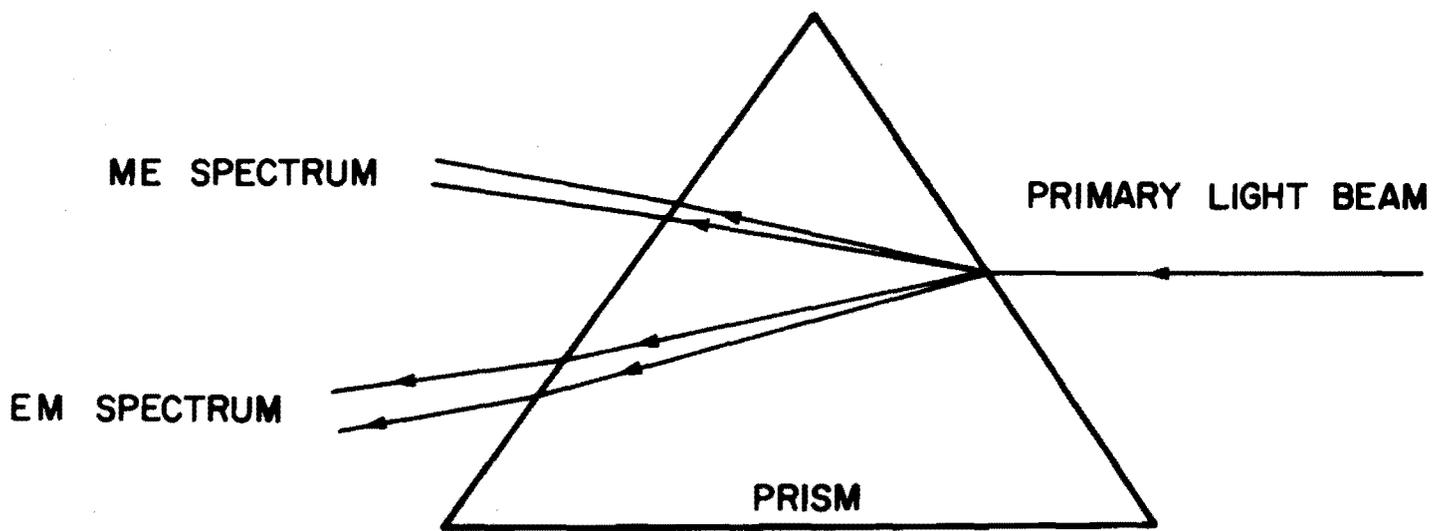
faster in the prism than it does in vacuum. The subluminal physical radiation should give the bent-down spectrum in Fig. 9, while the superluminal nonphysical radiation should give the bent-up spectrum. This experiment has been carried out with the children and they do indeed see the Newton spectrum with their normal eyesight, but they also see a bent-up spectrum with their auric eyesight<sup>(13)</sup>. Different children see different spectral orders at slightly different refraction angles but indicating superluminal radiation effects. An example of one piece of data is presented in Fig. 10<sup>(13)</sup>.

What this body of strange observations indicates is that a new term must be added to eq. 3 to give eq. 4 as the more appropriate representation of nature.

$$\text{function} \leftrightarrow \text{structure} \leftrightarrow \text{chemistry} \leftrightarrow \begin{array}{l} \text{Conventional} \\ \text{Space-time} \\ \text{Energy Fields} \end{array} \leftrightarrow \begin{array}{l} \text{Unconventional} \\ \text{Space-time} \\ \text{Energy Fields} \end{array} \leftrightarrow \text{Mind} \leftrightarrow \quad (4)$$

The conventional energy fields include electrical, magnetic, gravitational, etc. The unconventional energy fields include this superluminal radiation, the levitational field and many others that we haven't discriminated yet.

Now, let us consider what is on the right of the Mind level in eq. 4. Some experiments I have been doing recently with a very spiritually evolved gentleman are interesting here. He finds that, when he takes photographs with a Kodak camera, which he has sensitized by carrying it close to his body for a long time, he not only gets pictures of the people but often of



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Fig. 9. Schematic diagram illustrating refraction of both electromagnetic energy component (bent down) and magnetoelectric energy component (bent up) of the original incandescent light beam.

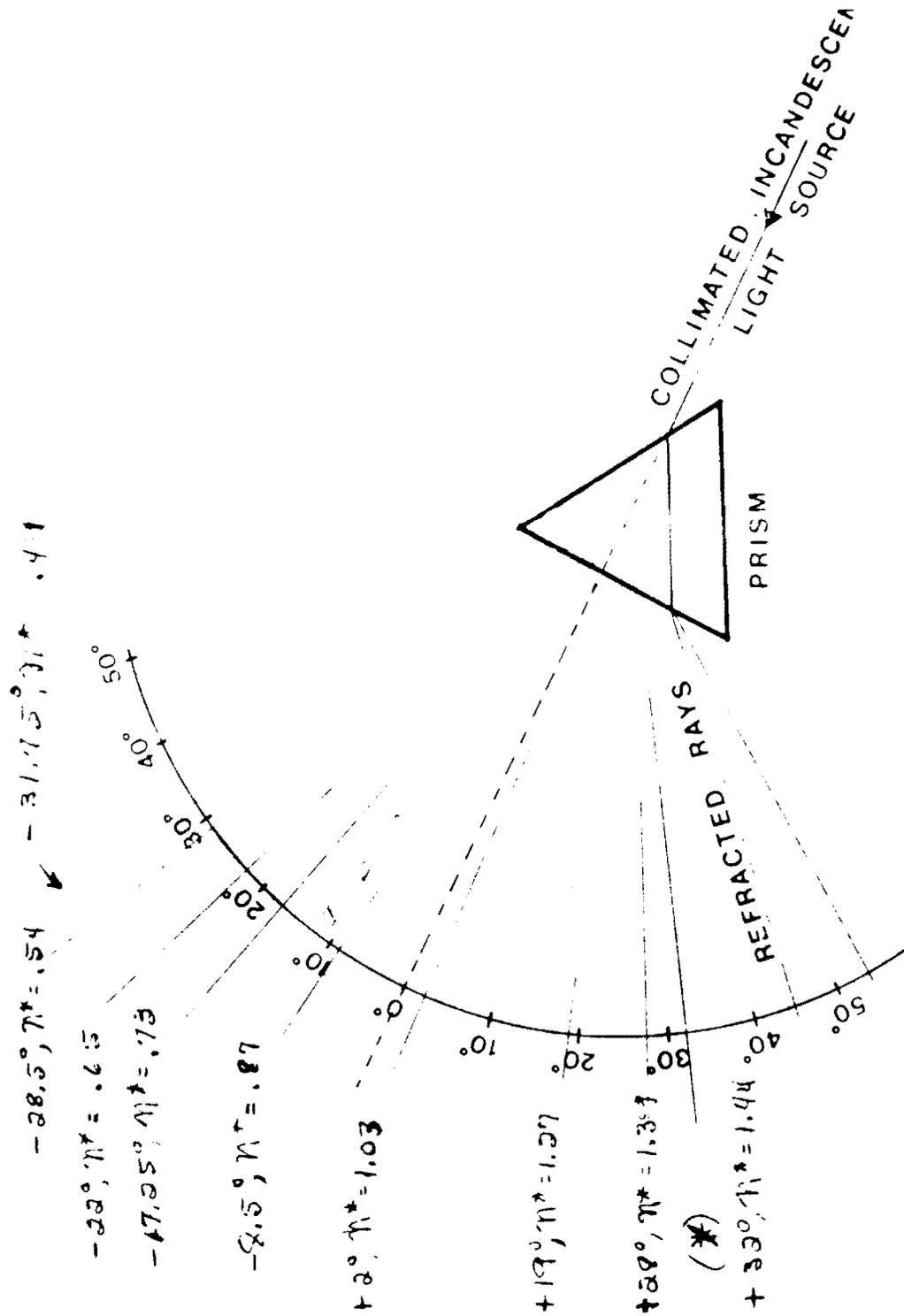


Fig. 10. Spectral order and dispersion of deltron-mediated superluminal radiation seen by one subject (colors reading clockwise are red, yellow, green, dark green, blue, red, yellow, green).

an energy field rising from the people as well. We set up an experiment using two cameras, one sensitized and one unsensitized, on the same tripod and both triggered from one switch. In certain cases we found that, whereas the unsensitized camera would show the normal scene, the sensitized camera might show a portion of a person in the scene to be transparent so that objects behind him could be seen through the body, or might show that a light bulb would be emitting one or several jagged or ribbon-like beams of light, etc. <sup>(14)</sup>. In a good percentage of cases, detailed pictures can be taken with the sensitized camera even with the lens covered by a lens cap.

As mentioned above, this gentleman is very spiritually oriented and thinks of this as a spiritual manifestation. In the same category of manifestations, we have the Findhorn experience where, on very poor soil, individuals with their own loving intention have been able to generate agricultural products of magnificent proportions and quality, far outside of expectations based upon conventional paradigm of the universe.

We find that charismatic movements around the country, due to the same light of the Spirit, have produced healings of great proportions, totally unexpected, based upon our conventional paradigm. We also find, these days, an amazing amount of channeling coming from different dimensions, in the name of the Spirit, as stated by those involved. We may not be able to articulate well what we mean by Spirit in terms of physics yet. However, taken on face value, it is part of an important evolving picture. Finally,

we can reconsider the great teachers that have walked the land throughout history--Jesus, Buddha, Krishna, Mohammed, etc., many who have performed seemingly wondrous feats in the name of the Spirit and in the name of the Father. I, personally, think that this is the ground of "tomorrow's physics," and I think that it deals with the modeling of eq. 5.

$$\begin{array}{ccccccc}
 & & & & \text{Conventional} & & \text{Unconventional} \\
 & & & & \text{Space-time} & & \text{Space-time} \\
 \text{function} \leftrightarrow & \text{structure} \leftrightarrow & \text{chemistry} \leftrightarrow & \text{Energy Fields} \leftrightarrow & \text{Energy Fields} \leftrightarrow & & \\
 & & & & & & \\
 & & & & \text{Mind} \leftrightarrow & \text{Spirit} \leftrightarrow & \text{Divine}
 \end{array} \tag{5}$$

Here, organismic function is underlaid by a structure that springs from a substrate of chemistry which is imbedded in a matrix of conventional energy fields. These, in turn, have their roots in nonconventional energy fields that arise out of the frame of Mind. The Mind stuff is imbedded in the frame of Spirit and all is imbedded in the Divine. Thus, homeostasis at the function level requires homeostasis at all of these levels and perturbations at one level cause perturbations to flow through all the other levels.

From the foregoing we can see that we are really multidimensional beings living in a multidimensional universe. At this point in time, we are becoming slightly integrated at some of these deeper levels, but we have a very long way to go. It seems that, from this kind of picture, a

number of conclusions can be drawn.

#### Some Conclusions

One conclusion is that there are new energies available in the universe of a nature that we have not yet dealt with in physics, and that we have, within our organism, sensory instrumentation for cognition of these energies. A second is that these energies function in different dimensions of the universe than the 5 physical senses level of cognition. A third is that, at some level of the universe, we are all connected because of this kind of modeling structure. The fourth is that time, space and matter are all mutable; i.e., they can all be deformed. We can perceive events out of our fixed location in space (remote viewing) and out of our fixed location in time (precognition) and some people appear to be able to materialize and dematerialize objects. And if one can do it, eventually, all can do it. Fifth, whatever we think of as absolute reality, that isn't what we perceive at the five physical senses level. We perceive a relative reality, not an absolute reality. This latter is something beyond our normal sensory abilities. Finally, it appears at this point in time that we are developing another sensory network (at least one). And it is developing at a tremendous pace because the phenomena that used to be so widespread in space and time in our history now is occurring by the tens of thousands every day all around the world.

This seems to be occurring because, as we are evolving, the stuff of the universe is getting finer and this hologram, in which we are imbedded, is shifting. Thus, as this progression continues, our allopathic medicine will shift towards homeopathic medicine, which will shift towards energy medicine, etc., etc.

This concludes the presentation of some of the data base which says that we are not looking at things correctly--we must change the way we look at things and we must generate a new paradigm. When Einstein came along, he said that the Newtonian mechanics are good generally but that, when you move your frame of reference to one which is moving at velocities close to the velocity of light, the mechanics must be changed. The equation set which describes the universe; i.e., which describes the set of consistency relationships amongst our observations of the universe, must be altered. Our science is incapable of giving us absolute knowledge but it is capable of giving us reliable relative knowledge, internally self-consistent knowledge. It rests on a set of pillars (mass, charge, space, time, etc.) which are perfectly adequate for shoring up the foundations of our understanding, provided they do not shift with time. However, at this point in our evolution, these pillars no longer seem so stable and unchangeable. This just says that our frame of reference for viewing the universe also must shift. Thus, the matrix of equation sets that we use to describe nature, perceptive nature, common-experience

nature, must also shift. And we are trying to do that.

Einstein said that when you travel very fast, space and time become coupled and you are going to perceive some strange experiences--clocks are going to slow down, measuring sticks are going to become shorter and everything is going to become heavier. Most people said that this was ridiculous and the theory thus erroneous. However, current experiments show it not to be ridiculous because that is exactly what we are finding. Some of the experiments discussed in the previous section, I feel, are providing us with a small amount of evidence for a 5th and 6th dimensional aspect to the universe wherein the 4-dimensional space-time frame is imbedded or enfolded.

It is beginning to appear that certain individuals, as they enhanced their coherence; i.e., the coherence of their intention, produce a coupling between this higher dimensional manifold of the universe and the 4-dimensional space-time aspect of the universe. Thus, phenomena begin to appear which are not part of our common experience--but they are still very allowable, even if they are very nonlinear phenomena. The analogue being expressed here is that, just as Einstein's work showed that space and time are coupled and, at certain limits, that the surface of perceptive experience now yields very strange and unexpected phenomena, similar characteristics apply here in this area of body energies, holistic health, etc. Here, we are coupling to even higher dimensional aspects of the universe so that manifold, the surface of

perception in this relative universe, is even larger than we previously imagined. Thus, lawful phenomena can occur when we reach that coordinate domain of this hyperspace (our variable space) which are totally unexpected based upon normal experience and upon conventional science.

If we think of the 5th dimension as the domain of Mind, then, depending upon the degree of integration of the individual and, thus, the "coherence of intention" of the individual, different degrees of ability to manipulate our 4-dimensional space-time world should occur. For normal individuals, the coherence of intention is fairly low and negligible coupling seems to exist between the visualization of an effect and its manifestation in space-time. For other individuals, like the gentleman with whom I am doing the camera studies, their "coherence of intention" is higher so that their mental visualization can be imprinted on a physical medium of sensitization like a film in space-time. Purportedly, other individuals with still greater "coherence of intention" can hold a young and unopened rosebud in their closed palm for a minute or two and then open the palm to reveal an opened and mature flower. Here, the individual's energy field has collapsed the usual time duration found to exist between the bud stage and the flower stage. The rosebud has been the medium of sensitization for his intention. Finally, other individuals with even greater "coherence of intention," like Sai Baba, can close an empty palm and open it to reveal a rosebud or a mature flower. Here, his energy field has contravened space and the conservation of energy principle in this space to completely materialize an object using the space itself as the medium of sensitization. It seems to be purely a question of the degree of coherence and the energy density of intention

of the individual which allows the mental visualization to be manifest in different media of sensitization located in space-time.

What we see developing here is a subjective science on an equal footing with present objective science. A common misconception is that the "scientific method" requires the experimenter to be coldly and distantly objective during the performance of an experiment. Instead, it really only requires a complete description of the necessary and sufficient conditions or protocol for anyone to reproduce the experimental result at any physical location. If this requires setting a mental and an emotional field at certain strengths, then, so be it. If these are to provide a positive, negative or neutral bias, then, so be it. However, we must, of course, invent the measuring instruments with which to set and reproduce these field strengths. That is our problem today--we don't yet know enough to design the correct instruments; we only know enough to recognize a significant influence and to realize that it is not easily controlled. This recognition and its incorporation into the scientific method forms the basis for our Subjective Science which is, of course, of profound importance to the Holistic Health activity.

To illustrate how difficult it will be for us to develop a proper science of these higher dimensional phenomena, let us consider what I call the "Skimmerbug" analogy.

#### The Skimmerbug Analogy

A skimmerbug has a relatively small body and many large legs and is essentially a two-dimensional creature that skims along the surface of ponds.

Think of a shallow pond with skimmerbugs on its surface. You put your leg in the pond and, to the skimmerbug skimming up to it, that is a materialization event. You take your leg out of the pond and, to the skimmerbug, that is a dematerialization event. If you then think of the number of ways in which your three-dimensional phenomenon can penetrate his two-dimensional perception space, you will begin to get an idea of how difficult it will be for the science of Skimmerbugdom to ever provide the proper description of that phenomenon. They will be able to get statistical correlations, obtain inferences, etc., but they won't be able to find the correct framework of description because they must first evolve to a perception space at least as high as the phenomenal penetration. We are in the same boat! We are transitory beings--traveling home! Most of our perception is at a three-dimensional space level and most of Nature functions at higher dimensional levels than this. We have a long way to go in terms of our evolution to the state of reliable perception of these higher dimensional levels.

Let me now present a model of the universe that I have been developing for the past 10-15 years, which provides a framework for rationalizing these new phenomena on the same footing as conventional phenomena.

#### New Model of the Universe

The place to begin is the frames of reference wherein conventional and nonconventional energies function. The first is called the positive space-time frame ((+) s/t) and the second is a mirror image frame called the negative space-time frame ((-) s/t). The conventional energies function in

(+) s/t and the nonconventional energies function in (-) s/t. On the left side of Table I are listed some characteristics of (+) s/t substance (physical substance), which is electrical in nature traveling slower than the velocity of light. It builds atoms and molecules of defined positive mass and positive energy and they radiate on energy which we call light (electromagnetic energy) at its particular velocity. Because of the positive mass and energy, it curves space in a particular way which generates the gravitational force between objects.

On the right side of Table I are listed some characteristics of (-) s/t substance (etheric substance), which is magnetic in nature and which travels faster than the velocity of electromagnetic light.<sup>(15)</sup> It also builds atoms and molecules which radiate a characteristic energy that I have called magneto-electric energy traveling  $\sim 10^{10}$  times faster than electromagnetic energy (for symmetry reasons). ~~It goes faster than light.~~ ~~It has a~~ *and has a* negative mass and negative energy, which means that it must curve space in the opposite direction and give rise to a levitational force. Thus, if you wish to levitate, you need only pump into your corpus more of this magnetoelectric substance (etheric substance). When you contain enough of this substance, you should lift off the ground because the curvature of space due to your physical substance has been neutralized. The pumping stations for this activity are generally thought to be the chakras (at the location of the endocrine glands, approximately).

I think it should be possible to convert from one type of substance to another even though the Einsteinian prediction is that nothing can travel faster than,  $c$ , the speed of EM light. The present conventional view is

Table I

**SPACE-TIME SUBSTANCE MANIFESTATIONS**

	$\chi$		$\chi^*$
1	Electric monopole	"MIRROR" RELATIONSHIP	Magnetic monopole
2	Forms atoms, molecules, etc.		Forms atoms, molecules, etc.
3	Coherence state I		Coherence state II
4	Positive mass		Negative mass
5	$v < c$		$v > c$
6	Electromagnetic radiation at $c$		Magnetolectric radiation at $c^1 \gg c$ ( $\sim 10^{10}c$ )
7	Positive energy states		Negative energy states
8	E increases as $v$ increases		E increases as $v$ increases
9	Positive time flow		Negative time flow
10	Gravitation		Levitation
11	Frequency $\nu_\chi$		Frequency $\nu_{\chi^*} \sim 10^{10} \nu_\chi$
12	Faraday cage screening		Non screening by Faraday cage
13			Magnetic cage screening
14	$I_e$ generates H		$I_M$ generates E
15	Space I		Space II

that, if you take a physical particle like an electron and you accelerate it, you give it energy and increase its velocity and the energy density goes up towards infinity as you approach the mathematically singular point at  $v = c$  (see Fig. 11). The conventional view is that you cannot give it enough energy for it to reach that velocity. However, in the theory of Nature, we have all kinds of mathematically singular points and what we observe is that the quality increases up one mathematical lobe as the singular point is approached and, when it reaches a value very close to the singularity condition, it tunnels through the barrier and takes a value on the other mathematical lobe. I expect the same thing is possible here. When one reaches a sufficiently large energy density, at a velocity  $v \gtrsim 0.999c$ , a metastability<sup>of small but finite probability</sup> is postulated to occur in the basic wave function of the particle so that, with one's mental intention, it is possible to bring about a conversion from the primary coherence condition of electrical substance to the uniquely different coherence condition of magnetic substance, and it tunnels through the barrier. The particle disappears from one's physical sensory system and it is not seen any longer, but it is still in space and it can keep increasing in velocity. This is a dematerialization event and it is something like a black hole phenomenon. Likewise, one should be able to take an etheric particle and decelerate it down to the  $v = c$  condition and have it tunnel through into physical space, and we have a materialization event, a type of white hole phenomenon.

Using this type of picture, we can see how materialization and dematerialization might be accomplished within the space frame we have been discussing.

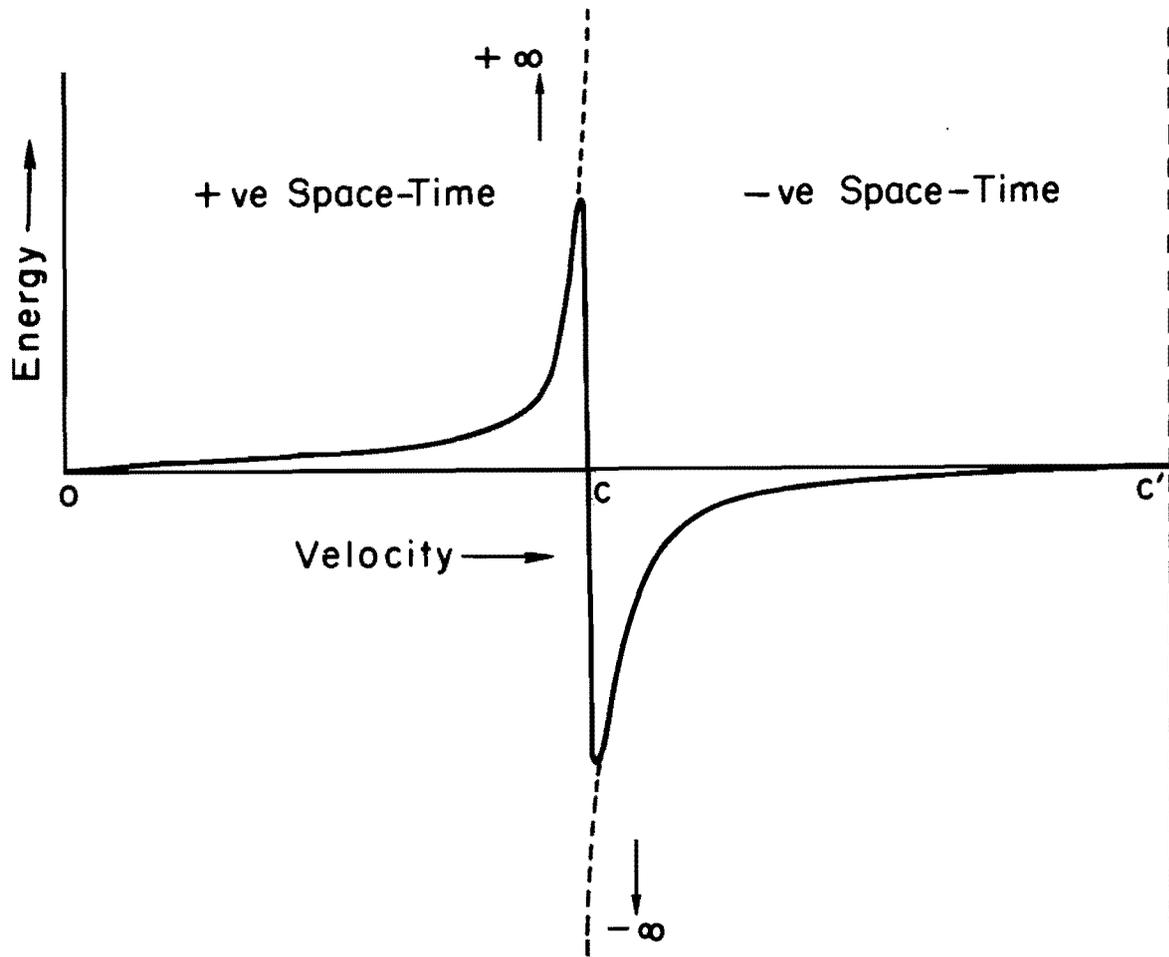


Fig. 11. Energy/velocity relationships between particles at the positive space/time and negative space/time levels.

It is just that the substance flips in and out of our cognition system at this physical level of consciousness.

In the modeling, there is also a third substance which has been invented because that which goes faster than light generally doesn't interact directly with that which goes slower than light. This third substance is neutral in nature and has been called the deltron<sup>(15,16)</sup>. I have postulated that it does not suffer the singularity at  $v = c$  because it has a higher dimensional nature and it can resonate with both the faster than light stuff as well as the slower than light stuff. Thus, it is an energy conversion medium and I propose that this is what subjects manipulate when they have a mental impression and cause things to materialize on a film or a rose or in empty space. This is also thought to be what the healer utilizes during the laying-on-of-hands. They are increasing the concentration of this deltron energy so that the visualization at the mental level of the universe can be impressed upon the medium of sensitization that one is using.

The way in which I propose that all this happens is illustrated in Fig. 12. Out of this ground of nothingness, empty space, think of a fluctuation occurring and the fluctuation produces two polar opposites. On the one hand, it produces electrical stuff, going slower than the velocity of light and having positive energy and positive mass. And then the basic particles of this stuff combine to form atoms, molecules, organisms, worlds and biological vehicles for people. On the other hand, it also produces magnetic stuff going faster than the velocity of light and having negative mass and negative energy. The basic particles of this stuff also combine to form atoms, molecules, organisms,

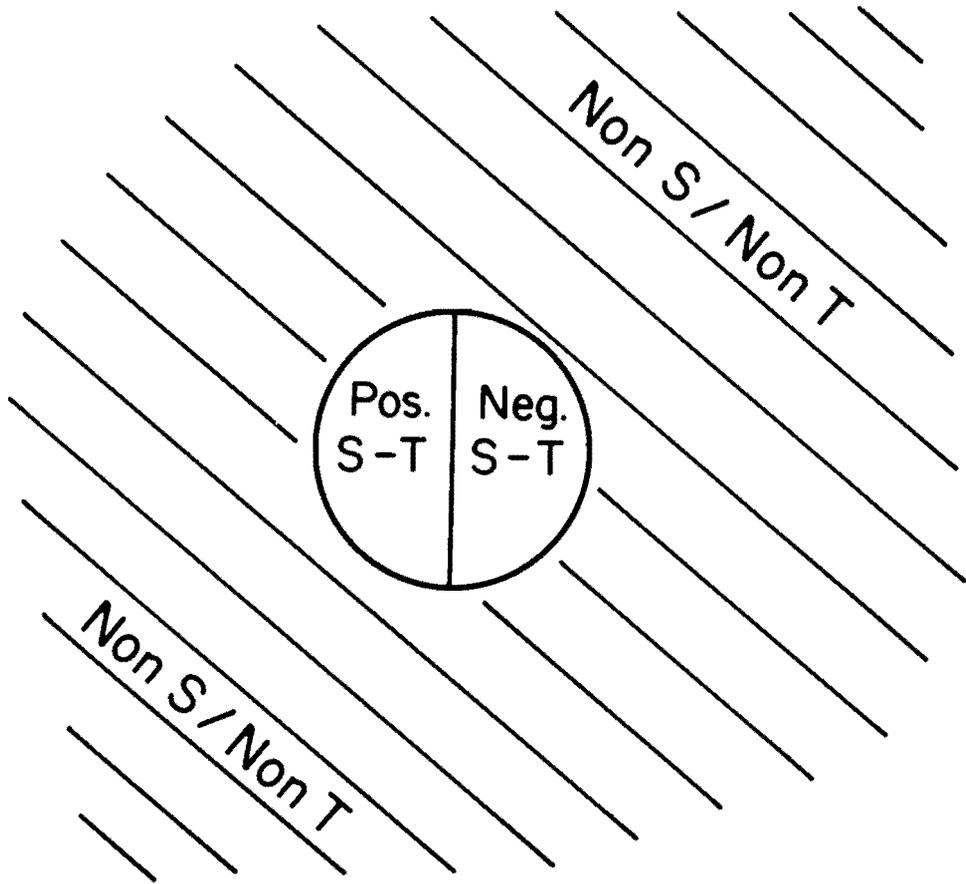


Fig. 12. Representation of fluctuation formation of +ve S/T and -ve S/T substance from the frame of Mind to form our 'World of Appearances'.

worlds and biological vehicles for people. Interestingly enough, although all these world structures are complex and apparently stable, the total sum of all the energies and all the entropies is still zero. It came into being by a naturally occurring event, a statistical fluctuation, with zero total energy content. It creates a framework which, unto itself, is stable because there is a system of forces allowing the two polar opposites to repel each other so that they do not recombine. However, the overall is still a zero energy sum. That is the frame of the simulator, of the vehicle that we have placed ourselves in. It is imbedded in the ground of Mind so it is merely the world of appearances, the world of form, the relative universe, and it can be manipulated from the level of Mind. It is a terrific educational device, a great vehicle for learning, and that is what we need.

One way to visualize this simulator aspect is as illustrated in Fig. 13. Think of the Being, the eternal part of man, as comprised of the spirit plus its perception mechanism, the three levels of mind--instinctive, intellectual and spiritual mind (like the old brain stem, the left and right lobes, and the frontal lobes). That entity, that being, invests itself in a vehicle, which we call the body, made of the stuff of both the (+) s/t and (-) s/t frames. And it connects itself to the vehicle via energy circuits made from the stuff of the transitional domain (astral substance or the emotional body). Rather than call this two-fold system body and soul, I use the terms simulator and Being because they have not been overworked yet and may provide a new perspective for us. This description may help us get the idea that the body is just a vehicle that we drive in this classroom of experience. In fact,

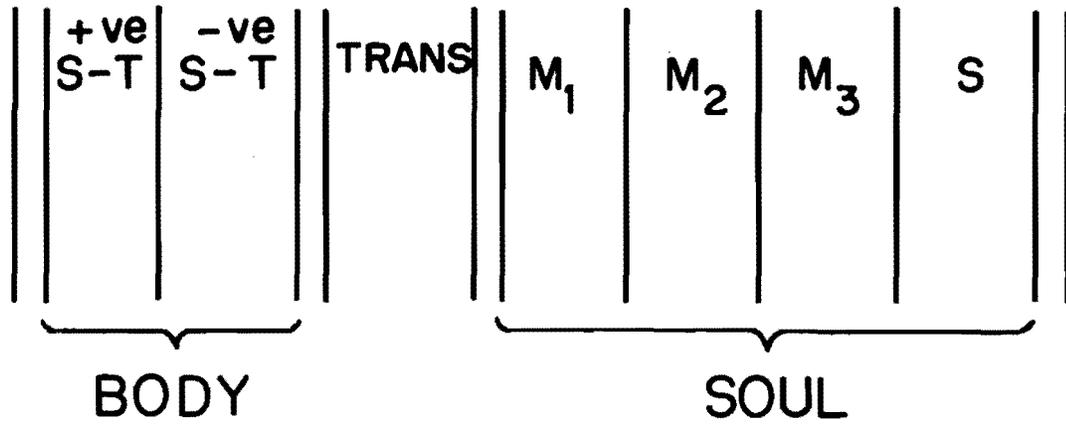


Fig. 13. Representation of Being (Soul) attached to the Simulator (Body) via the transitional frame as an interfacing network.

at the simulator level, we respond to the events that come to us in life and our thoughts and attitudes create mental patterns at the Mind level of the universe. And, since the simulator is imbedded in that frame, those mental patterns impinge upon and control wave events in the phenomenal simulator which bring to us new events in our lives to which we must respond, etc. Looking at that loop, we begin to see that this is a vehicle whereby we create our own future in this relative universe--both individually and collectively.

The way to understand precognition via this modeling is to consider Fig. 14 and think of an event occurring at the Mind level of the universe. This event may be a thought and that thought impinging upon the simulator causes a wave set to move at a velocity  $\sim 10^{10}c$  into the (-) s/t frame and come into a coincidence pattern or coherence pattern at some time  $\tau_1$  after the initiation of the event. Then those waves go out of coherence and impinge upon the (+) s/t frame. In this frame, the waves move much more slowly and come into a materialization coincidence some time later at  $\tau_2$ . Now, if your (-) s/t sensory capabilities were working and you were conscious of its inputs at time  $\tau_1$ , you would have seen the manifestation of the event. If you then took that information to the memory banks of the (+) s/t portion of the brain and focused your sensory attention on that space frame, you would wait a time  $\tau_2 - \tau_1$  before the materialization of the event is observed in your local environment. You would then say that you had a precognitive awareness of the event. This says that past, present and future coexist but the phenomenal part of them occur at different levels of this huge, magnificent projection machine that we are in. Of course, when we are dealing with medicine, we

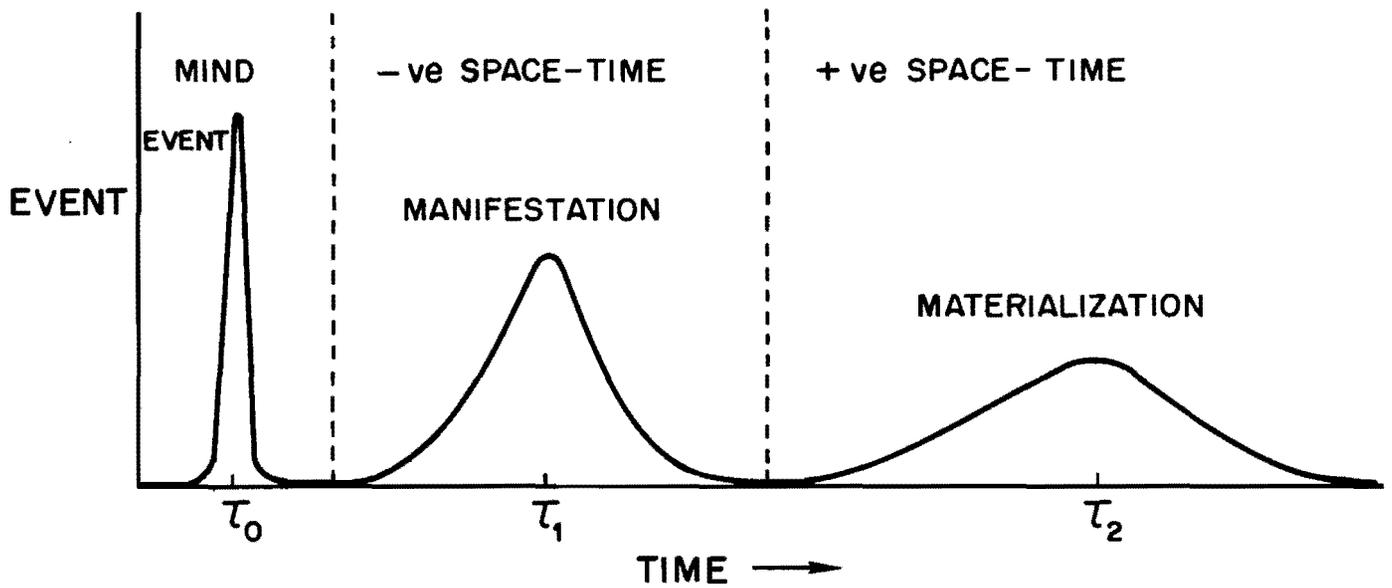


Fig. 14. Representation of an event at the cause level (Mind level), its manifestation at the negative space/time level  $\tau_1 - \tau_0$  later, and its materialization at the positive space/time level  $\tau_2 - \tau_1$  later.

still wish to understand these things in the proper way so that we can work with them in the correct way.

One of the things that physicists like to talk about these days is light cones where time is plotted vertically and all space is plotted as a perpendicular vector, as illustrated in Fig. 15. All events in the physical universe occur within this hour-glass figure. The interior of the upper cone represents the future, the interior of the lower cone represents the past, the crossover point is the now, and the surface of the cone represents events traveling at the speed of light. Conventional physics projects that ~~nothing~~ exists ~~outside~~ outside of this light-cone. In my modeling, if we look at the etheric part, it forms another light cone with its edges almost down on the x-axis and events occurring in the (-) s/t frame would be found in the domain between the two cones bounded by the  $v = c$  and  $v = c^* \approx 10^{10} c$  lines. If we go one step further and map the events occurring in the entire seven levels of the model by plotting an appropriate function of time vertically and a function of distance horizontally, all the light cones might be displayed on one figure, as illustrated in Fig. 16. We now see the domains wherein events at these different levels might be observed. As we approach the higher levels, we note that the wave events are occurring at incredibly great speeds,  $v > 10^{40} c$  and, as we approach that horizontal axis, one is able to go everywhere in essentially no time; i.e., one is omnipresent. Thus, this type of modeling allows that type of thinking, that kind of possibility.

All of the phenomena that we would perceive in the different dimensions of the universe would take place within these various cone structures. Of

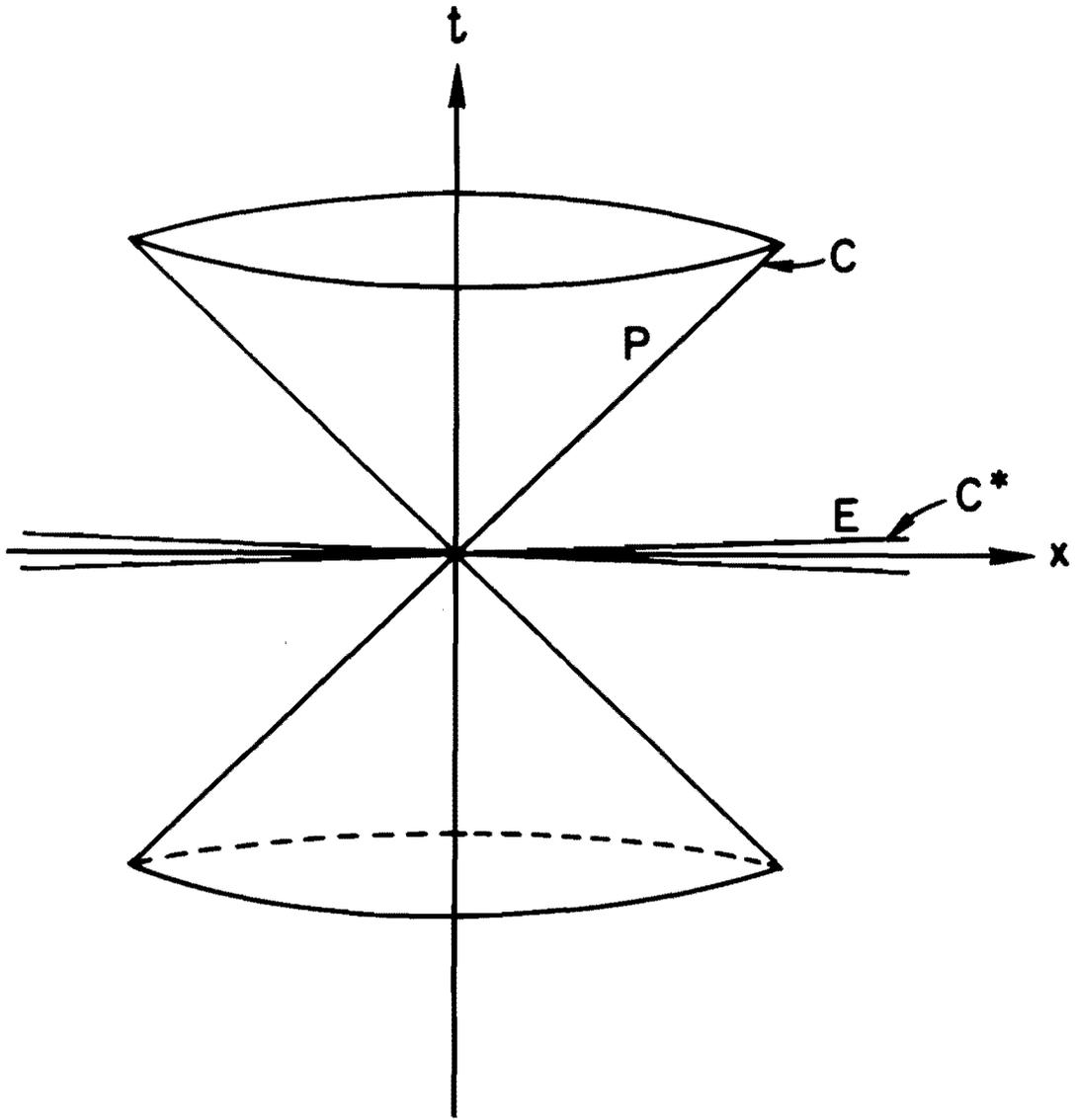


Fig. 15. Traditional 'Light-Cone' representation in Minkowski space.

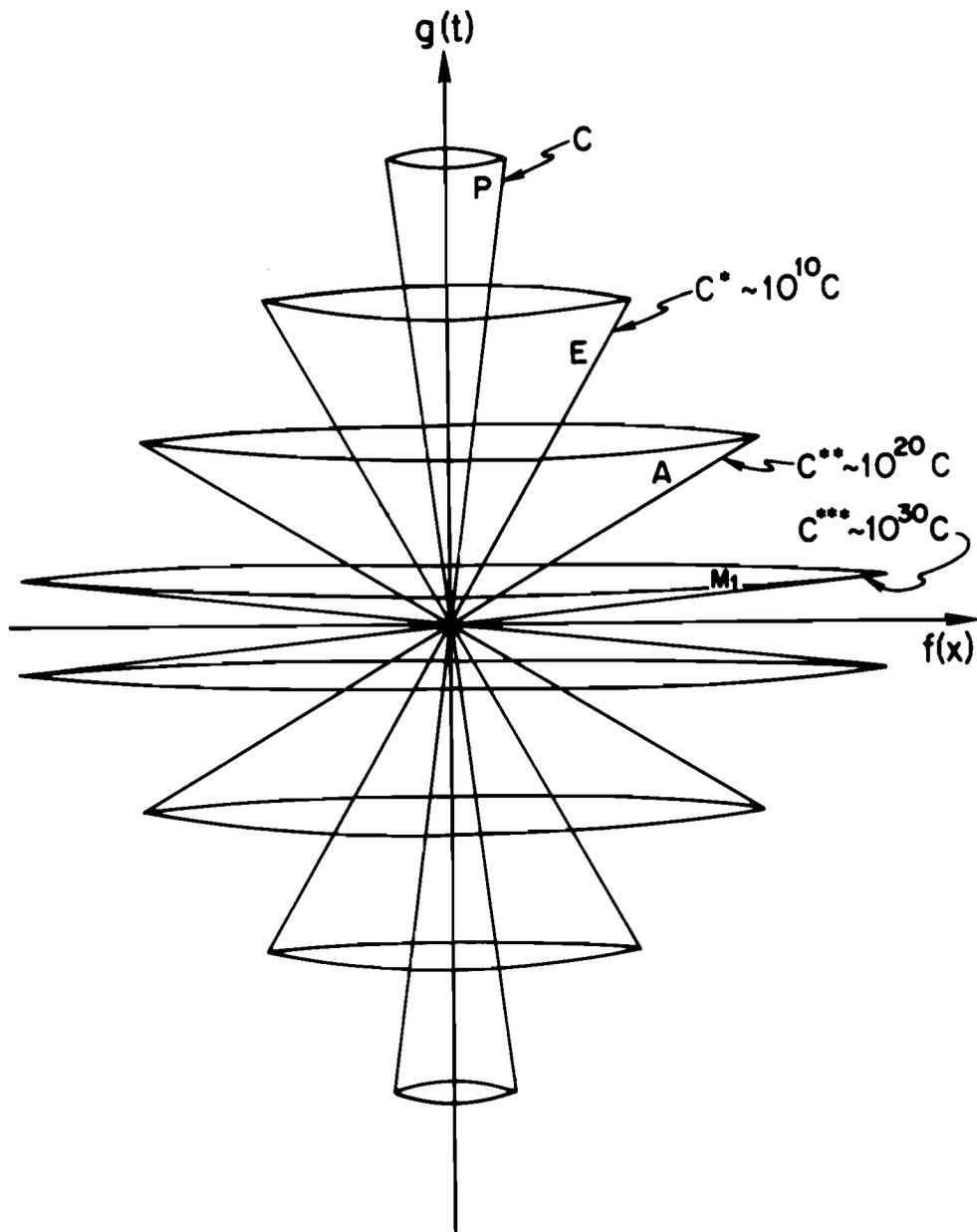


Fig. 16. Modified 'Light-Cone' representation to illustrate the various domains of subtle experience and perception.

course, this is just a three-dimensional representation and it should be a higher dimensional representation to be correct. We are still skimmerbugs, remember, and we must realize that this figure is only an analogue of the proper description.

As I presently conceive the model, it starts with a holographic projection coming from the higher part of ourselves, the Spirit part, which is a portion of the Divine. A coherent beam of this radiation is diffracted by the substance patterns of the mental plane (6-dimensional) and impinges upon the medium of sensitization (recording medium), which is the (+) s/t and (-) s/t frames. It is the cognitive dissonance between these two frames that gives rise to the generation of substance--physical, etheric and astral, with different energy bands or octaves at each level. Thus, alterations in our collective mental state ultimately alter the hologram stored in the (+) s/t and (-) s/t frames so that events at the level of physical and etheric substance are also altered. The closest analogy here would be our television sets. As the program broadcast through the airways changes, it alters the electric forces on the electrodes that control the electron beams in the video tube and this causes the performers displayed on the screen to change their actions.

In spite of the foregoing, we are still locked into this relative universe which we are eventually going to be able to change with our minds. If we like, we would be able to change it to a very different relative universe because there are probably billions and billions of possibilities. However, it is much better to evolve beyond them, to use them as the vehicle of experience so that we can grow in perception--as we are working our way home.

This seems, to me, to be the direction of our evolutionary trust.

#### How the Process Really Works in the Physical World

Let us now return to this relative reality of the physical wherein we appear to spend our daily lives, perform our works, develop today's medicine, etc. We want to know how this exotic multidimensional modeling works out in that conventional frame. The analogy that is worth looking at here is Wolff's law having to do with the development of trabeculae in bone.

If one takes an organism like a human being and places it under an asymmetrical stress, then, as the stress is maintained over time, the individual develops bone girders in such a direction as to optimally support that stress. What seems to happen is that the mechanical stress acts upon the physical substance and, since the cell material has basic piezoelectric properties, the mechanical stress pattern is converted into an electrical field pattern. The electric field pattern, in turn, causes the migration of ions and colloidal particles into specific regions and, when the concentration reaches a critical threshold value, agglomeration and gelation of the colloidal particles and the ions occur. This initiates the densification process into a solid mass which is followed by normal diffusion so that calcification of this mass develops. Thus, the girder is formed.

Now, if we extrapolate to the larger picture wherein we have an initial mental stress or mental aberration that is maintained for an extended period of time, how does the process proceed? From the modeling, the mental stress impinges upon (-) s/t causing a shift in the homeostasis of (-) s/t to generate a field pattern in that frame that is the replica of the mental stress

pattern. That, in turn, changes the pattern of the deltron energy fields so that one can then begin to see the bridging or projection of these higher dimensional fields into the physical domain to imprint the replica pattern at the electric and magnetic field level of the body. These latter fields set the chemical changes in motion, which we ultimately recognize as an alteration in the structure and function of the body. I feel that this is how we concretize and map the higher dimensional effects into the physical body.

One of the things we wish to do is remove these higher dimensional stresses and, when we do, things don't immediately spring back to their earlier state because there is a certain kinetics of change associated with this rigidity. This calcification requires time for its decomposition even though it is no longer a thermodynamically stable structure (the cause has been removed). It is a metastable structure but it may have a relatively long lifetime in that state. Diamond is also a metastable structure at atmospheric pressure and normal temperatures and we are all thankful that it decomposes to the stable forms of graphite or coal only extremely slowly. Thus, the organic defect structures must be removed by various healing processes (massage, rolfing, etc.). So long as the blocks are still there, they scatter energy and reduce our energy capacity. Once the linkages to this particular defect pattern are removed at the physical and the higher dimensional levels, the system snaps back and we have more energy to use in our organism.

From the above, we see that our medicine must occur at many levels. In particular, the disease must be removed at the level of cause with the

individual returned to a state of right thinking because that is really where the action is in our simulator in this relative universe. We are doing it all the time--to ourselves. If we can remove it at the cause level, that is great, but we must also remove the replicas at the (-) s/t and (+) s/t levels. If our medicine isn't quite as good as that, then the next level of advantage is to treat at the (-) s/t level and acupuncture begins to be effective at this energy level. Stepping down one notch, we come to our present medicine which deals at the (+) s/t level via changes in chemistry. We all seem to be evolving and moving towards this higher dimensional medicine and we will surely develop a variety of modalities for healing at these other levels in the future.

#### Necessary and Sufficient Conditions for Healing

Let us consider what are the essential ingredients associated with healing; i.e., how do we produce the needed changes in our, or someone else's, extended energy field? We begin by noting that any manifestation or materialization is a pattern (essence is stored in form) and that pattern or form is constructed from the superposition of waves. Waves are the primary essence in the universe--they form all substance. All substance is built from waves. Thus, a particular pathology has a particular pattern which is sensitized in various ways in the system. The key point to recognize is that the pattern is made of waves but the waves are of various different kinds, at different levels of the universe.

To bring about a healing, we must tap the necessary wave components for that pattern. Next, we must tap the wave components in the correct ratios

of intensities because if we get the wrong ratios, they will not superpose to obtain the same form. Energy form has a specific ratio-set. Next, we wish to tap these wave components at a high overall intensity so that the healing can occur in a relatively short time. Next, we wish to be strongly attuned to the one to be healed so that the energy coming from our extended field structure is not scattered at the interface between the healer and the healee; i.e., the other part of ourself that we are healing. Finally, we must maintain and build credibility with the individual to be healed so that the individual does not lose faith that he or she has been healed, otherwise the process can readily be screwed up by the individual's own mind. This latter is a point that present medicine is beginning to recognize and that rather than psychosomatic illness, we have psychophysiologic illness. We must also recognize that no matter what kinds of medical instrumentation we generate in the future, no matter how powerful it is in its ability to influence these higher dimensional energy fields, the individual has free will and can screw up the process at anytime.

#### The New Medical Component

As we move towards this new medicine, it is fairly obvious that the next generation of devices will be based upon electromagnetic energies (magnetic, electrostatic, etc.) and other conventional energies. Then, we will generate categories of devices based upon the deltron energies so that we can bridge between the physical energy fields and the etheric energy fields. Some of these are already underway in our laboratory and in others. Then, devices will be built which get deeply into the etheric energy fields and bridge with

the Mind domain. Then, finally, we will work with devices that are primarily from the Mind domain into these other domains. We will also find that, as we work with these devices in a mode of compassion for healing, one builds into his or her extended energy structure the wave components needed to do it all without the devices. Thus, we eventually evolve past the need for the devices.

We might ask why we don't do this latter directly and the dilemma is that we can, in principle, but we have given power to a particular set of symbols in this relative universe of ours. Thus, we must play the same game a little longer and show that skeptical part of ourselves that all this exotic stuff is indeed very scientific and that we can build reliable, reproducible data, etc., in this area. At a certain point, we will realize that we don't need all this stuff and then we will be close to giving up this kind of game.

As we move along this path, we move from the present allopathic medicine, well suited to the coarse levels of the physical part of our vehicle, to a homeopathic medicine. We continue, then, on our adventurous journey through the energy field medicine as we head back towards our home country--which is beyond all the relative universes that we create with our minds--to the domain of the absolute. Then we can say, "And home at last.":

### References

1. D. E. Woolridge, The Machinery of the Brain (McGraw-Hill Book Co., Inc., New York, 1963).
2. R. D. Becker and D. G. Murray, "The Electrical Control System Regulating Fracture Healing in Amphibians," Clin. Orthop. and Rel. Res. 75. 169 (1970).
3. Sister Justa-Smith, "The Influence of Enzyme Growth by the 'Laying-On-of-Hands'," Academy of Parapsychology and Medicine, Dimensions of Healing Symposium Proceedings, Los Altos, California, 1972.
4. E. Brame and D. Dean, "Physical Changes in Water by the Laying-On-of-hands," International Conference on Psychotronics, Monaco, 1975.
5. R. N. Miller, "Methods of Detecting and Measuring Healing Energies," Future Science, eds. J. White and S. Krippner (Anchor-Doubleday, New York, 1977).
6. V. Patrovsky, "Influence of Polarized Water," Intl. J. of Paraphysics 10, 3 (1976).
7. H. Motoyama, "The Mechanism by which PSI-Ability Manifests Itself," Impact of Science on Society 24, 321 (1974).
8. W. A. Tiller, "Energy Fields and the Human Body, Part I," A.R.E. Medical Symposium on "Mind-Body Relationships in the Disease Process," Phoenix, Arizona, January 1972.
9. J. Taylor, Superminds (Macmillan, London, 1975).
10. Z. W. Wolkowski, "Psychokinetic and Psychodynamic Phenomena Involving Jean-Pierre Girard," Intl. J. of Paraphysics 10, 34 (1976).

11. J. B. Carlton, "Experimental Techniques in Human Aura Analysis," Proceedings of the Seventh Annual Medical Symposium on "New Horizons in Healing," A.R.E. Clinic, Phoenix, Arizona, January 1974.
12. J. B. Carlton, "The Telescope Phenomena: Running Around at Velocities Violating the Speed Limit of Light," Proceedings of the Eighth Annual Medical Symposium on "The Healing Mechanism: An Adventure in Consciousness," A.R.E. Clinic, Phoenix, Arizona, January 1975.
13. J. B. Carlton and W. A. Tiller, "Index of Refraction Measurements for a Superluminal Radiation Proceedings of the Tenth Annual Medical Symposium on "A Holistic Approach to the Etiology and Therapy of the Disease Process," A.R.E. Clinic, Inc., Phoenix, Arizona, January 1977.
14. S. O'Jack and W. A. Tiller, to be published.
15. W. A. Tiller, "Positive and Negative Space/time Frames as Conjugate Systems," Future Science, eds. J. White and S. Krippner (Anchor-Doubleday, New York, 1977).
16. W. A. Tiller, "A Lattice Model of Space and Its Relationship to Multi-dimensional Physics," Proceedings of the Tenth Annual Medical Symposium on "A Holistic Approach to the Etiology and Therapy of the Disease Process," A.R.E. Clinic, Inc., Phoenix, Arizona, January 1977.