

"RADIONICS, RADIESTHESIA AND PHYSICS"



William A. Tiller, Ph.D.

Dr. Tiller, a director of the Academy of Parapsychology and Medicine, has been chairman of the Department of Materials Science at Stanford University since 1966 and is a consultant to government and industry in the fields of metallurgy and solid state physics. He has published more than 100 scientific papers, has five patents issued, and has a definitive text on the Science of Crystallization in preparation, an area in which he is an international authority. He is a member

of a number of honorary societies and is associate editor for two scientific journals. In 1970 he was awarded a Guggenheim Fellowship for a year's study at Oxford University, England. Dr. Tiller has been engaged avocationally in a variety of activities related to parapsychology. These include lecturing and writing. He has two books now in progress, one on the subject of "Concepts and Models for Understanding the Transformation of Man".

INTRODUCTION

The word "radiesthesia" may be defined as sensitivity to radiations covering the whole field of radiations from any source either living or inert. Special examples of this sensitivity are to be found in the activities of eyeless sight (dermo-optical activity), clairvoyance, clairaudience, telepathy, psychometry, dowsing, and so on. Of course, those radiations associated with the five physical senses are well known and, presumably, perception of these other radiations by the brain occurs in a similar fashion to the mode of operation of the physical senses; i. e., a sensory network receives the radiations and sends a set of energy pulses to an appropriate level of the brain for transferral to an interpretation unit at the conscious level of the brain. In addition, complex information can ripple these waves much as audio and video information ripple the television electromagnetic carrier wave. In some people, all the important network linkages have been constructed and are in good operating condition so that they perceive these radiations. In most of us, more "muscle building" is needed in this area to put the circuitry in reliable working order!

Radionics is an instrumental form of radiesthesia and, as such, deals with the interaction between mind and matter and with the complete interrelationship of all things. The notable names connected with the development of this subject are Abrams, Drown, De la Warr, Heironymus, Rae and others. Although it has other important uses, radionics is primarily used as both a method and a device for the diagnosis and healing of plants, animals and humans. One of its most striking features is that it seems to function effectively over separation distances between operator and patient of thousands of miles, using only a spot of the patient's blood or other suitable witness as the link between the two.

The technique has been used to heal the general spectrum of

ailments in humans, from the common cold to serious illnesses of the various body glands; in animals from distemper to hoof and mouth disease; and in plants from stimulating nutrient uptake from the soil to inhibiting pests from destroying a crop. The method has also been used for prospecting for oil, water or minerals (using only a good map of the area); for finding lost articles or people; for designing industrial equipment or selecting staff; in education for lowering a student's resistance to a subject, school or teacher; in research for probing theoretical and experimental directions and in the area of thoughtography.

During the past two or three years, I have devoted a portion of my time to the study of radionics to see if a rational explanation of device operation could be constructed in terms of a set of testable hypotheses. I did not limit myself to the known facts of present-day physics but allowed extrapolations of this modeling of nature. As might be expected, it was possible to conceive of a not-too-unreasonable model of device operation which affords a basis for serious experimentation. This model will be described in the present paper.* In addition, the relationship between the primary radionic wavefield⁽¹⁾, the Vivaxis wavefield⁽²⁾ and the acupuncture points of the human body⁽³⁾ will be noted. Finally, another antenna system of the body connecting the endocrine glands will be discussed.

ASPECTS OF HEALING

I have come to view the entire paranormal (psychoenergetic) field of healing as being differentiable into two categories of healers; i. e., into those that do not use devices and those that use a device as an aid. In the first category, there appear to be three important components of the system that lead to healing: the operator, the patient and the information source which we presume to be universal (see Fig. 1). The operator uses his psychoenergetic (paranormal) abilities to make the information and energy linkages in this three-body interaction system. This process path most readily characterizes what has been called "absent healing," "Divine healing" or "Spiritual healing." In many cases, only a witness is needed to represent the patient in the circuit; this need only be a name and address on a piece of paper, such as was used by Edgar Cayce. Using such a witness, in trance, Cayce was able to tap, with amazingly high reliability, an information source for both diagnosing and prescribing for the patient.

In the process of invoking the necessary energy transfers, some healers or practitioners are able to strongly attune the proper level of their mind to the specific task with little distracting noise in the circuit so that they produce a high signal/noise ratio of intent and develop a high reliability of performance. In most of us, this ability is not so highly developed and we are easily distracted from our

*Much of the work was carried out at the Delawarr Laboratories during the author's sabbatical leave from Stanford as a Guggenheim Fellow to Oxford University, Oxford, England.

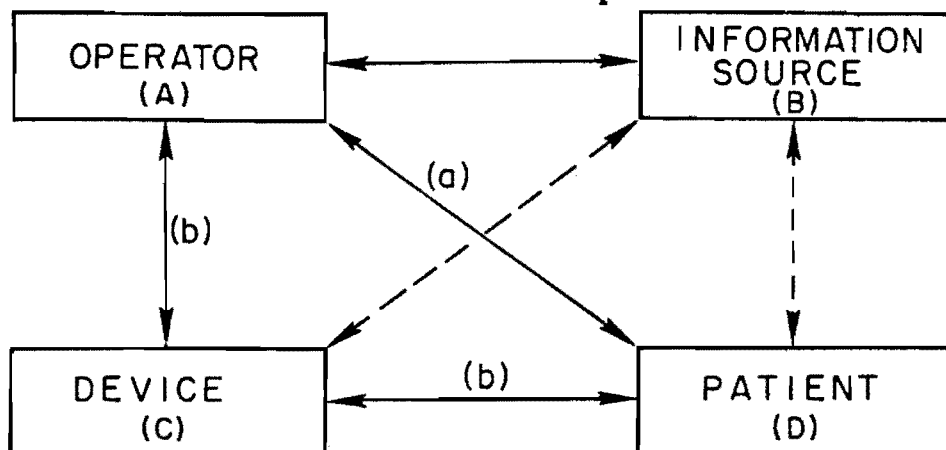


Figure 1. Components of healing system for both three-body and four-body interaction methods.

intent, develop a low signal/noise ratio and are not very reliable in the performance of healing or other channeling activities. For such individuals, the use of devices in the system such as a pendulum or radionic detector are found to be extremely helpful in increasing their degree of reliability. This category of healers constitutes the four-body interaction in Figure 1. Probably the prime function of these detectors is to increase the signal/noise ratio of intent and thus increase the reliability of the information transfer from the information source. The radionic device is designed to give a yes/no response to a mentally held question. Its operation is such as to require the identification of successive layers of questions. This is a significant aid to the discrimination of the relevant factors involved, as each can be focused on in turn, thus cutting down the noise of competing ideas or emotions.

It appears that one does not need to have well-developed psychic abilities to use this approach to diagnosis and healing. Rather, one needs to have a well-disciplined mind and a reasonably sensitive emotional structure. One's psychic abilities seem to develop as one pursues this activity, and the device may eventually be no longer necessary (although it is always beneficial). In fact, if unknown to the operator certain elements of the device are removed, the operator can often still function effectively--he may actually have been developed to the stage of using the three-body interaction method, and the device was only serving as an aid for attunement.

THE HUMAN WAVE FIELD

A basic idea in radionics is that each individual, organism or material radiates and absorbs energy via a unique wave field which exhibits certain geometrical, frequency and radiation-type characteristics. This is an extended force field that exists around all forms of

matter whether animate or inanimate. A useful analogy here is the physical atom that is continually radiating electromagnetic energy in the form of waves because of its oscillating electric dipole moment and its thermal vibrations. The more complex the material, the more complex the waveform. Living things, like humans, emit a very complex wave spectrum of which parts are associated with the various organs and systems of the body.

The fundamental carrier wave is thought to be polarized with a rotating polarization vector as illustrated in Figure 2a. The information concerning the glands, body systems, etc., ripples the carrier wave and seems to be associated with a specific phase modulation of the polarization vector of the wave and also with frequency modulation of the wave for a specific gland. Regions of space associated with a given phase angle of the wave constitute a three dimensional network of points extending throughout all space. To be in resonance with any one of these points (see Fig. 2b) is to be in resonance with the particular gland of the entity. The capability of scanning the waveform of the gland exists for the detection of any abnormalities. Likewise, if energy having the normal or healthy waveform of the gland is pumped into any one of these specific network points, the gland will be driven in the normal or healthy mode. This produces a tendency for its structure to reorganize itself in closer alignment with the normal structure; i. e., healing of the gland occurs. Cells born in the presence of this polarizing field tend to grow in a healthier configuration, which weakens the original field of the abnormal or diseased structure and strengthens the field of the normal or healthy structure. Continued treatment eventually molds the healthy organ structure and the condition is healed.

DEVICE DESIGN AND OPERATING PROCEDURE

A schematic diagram of a Delawarr Laboratories instrument is illustrated in Figure 3; a photograph of an actual instrument is given in Figure 4. Referring to Figures 3 and 4, the device contains two ports, one designated as male and the other female, for containing the witness of the patient. The witness is generally a spot of the patient's blood on a piece of filter paper. The device contains a bar magnet that is rotated to tune the device into overall resonance with the basic wave field of the patient. It contains a series of dials upon which a frequency (or set of ratios) is set that has been previously determined to be the mapping transform for the particular gland or condition under question; i. e., it allows the proper phase-resonance to the individual's wave field to be made. It contains a dial to indicate the effectiveness of operation of the gland or the degree of advancement of the condition. (The abnormality present may be manifest in the energy body and not yet materialized in the physical body, so that one must be careful in the interpretation of this reading.) Finally, it contains a cavity covered with a rubber membrane that serves to provide a yes/no response to a particular mentally held question.

The procedure for obtaining this response is to drag one's fingers

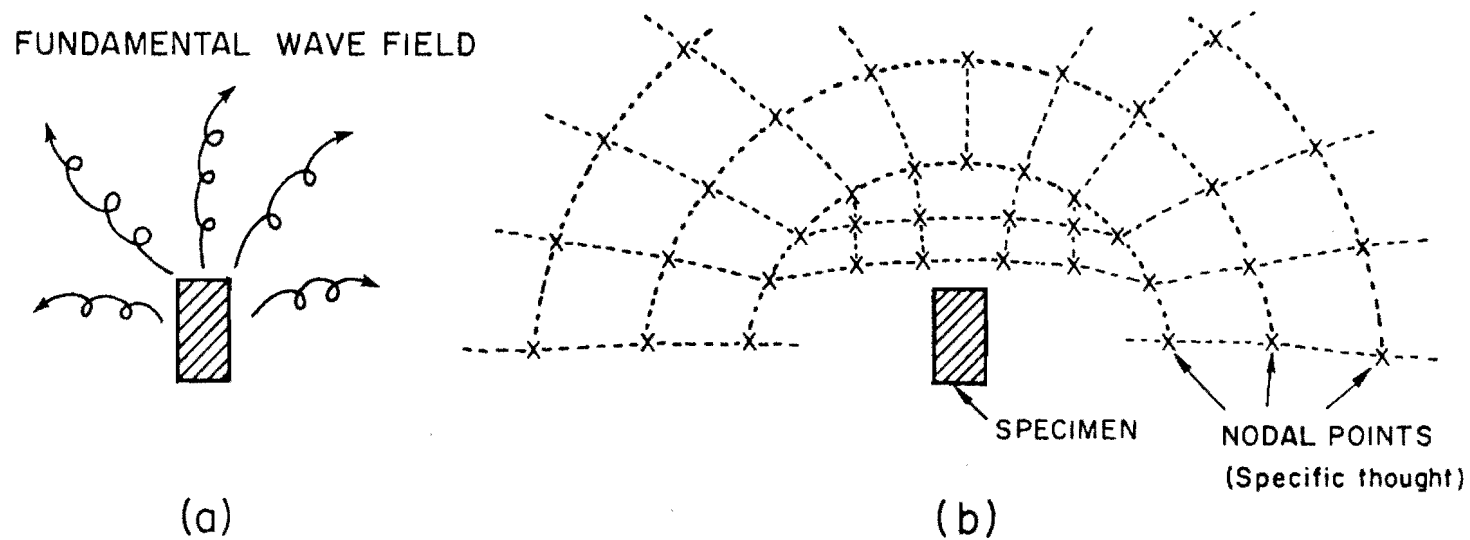


Figure 2. Illustration of fundamental radionic wave field for an object and a set of nodal points (constant phase angle) for a specific aspect of that object.

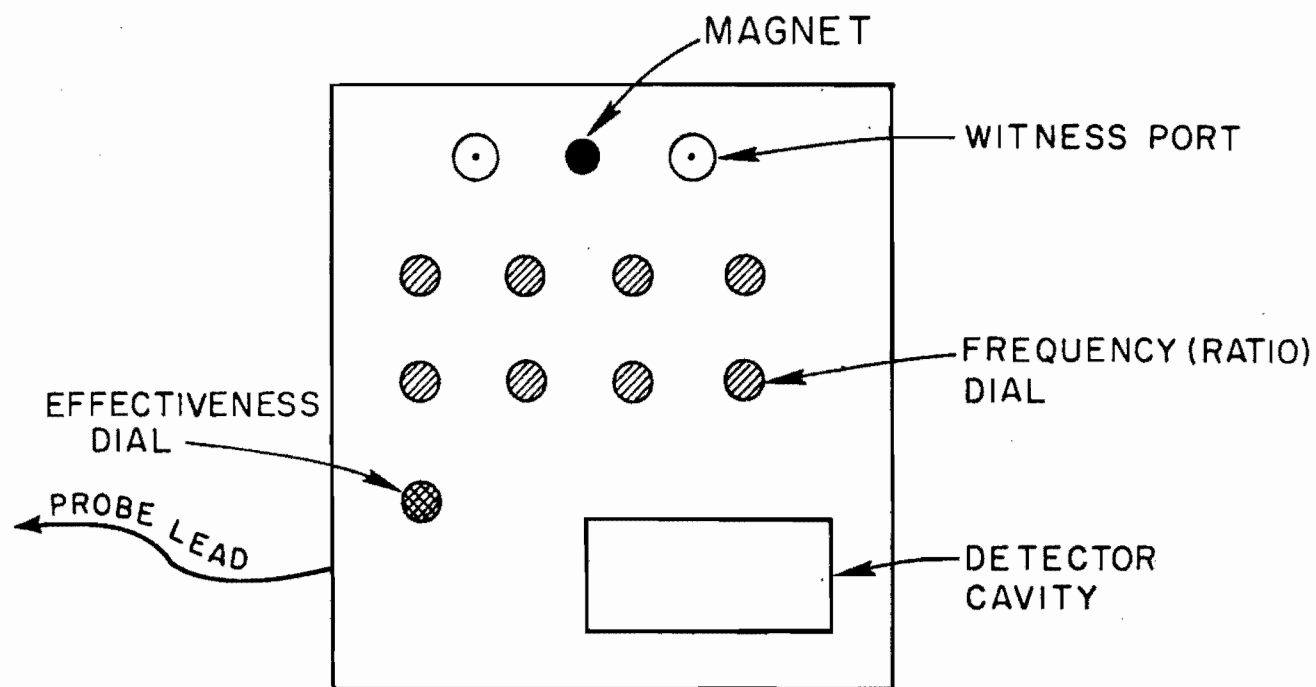


Figure 3. Schematic diagram of the Delawarr radionic diagnostic instrument.

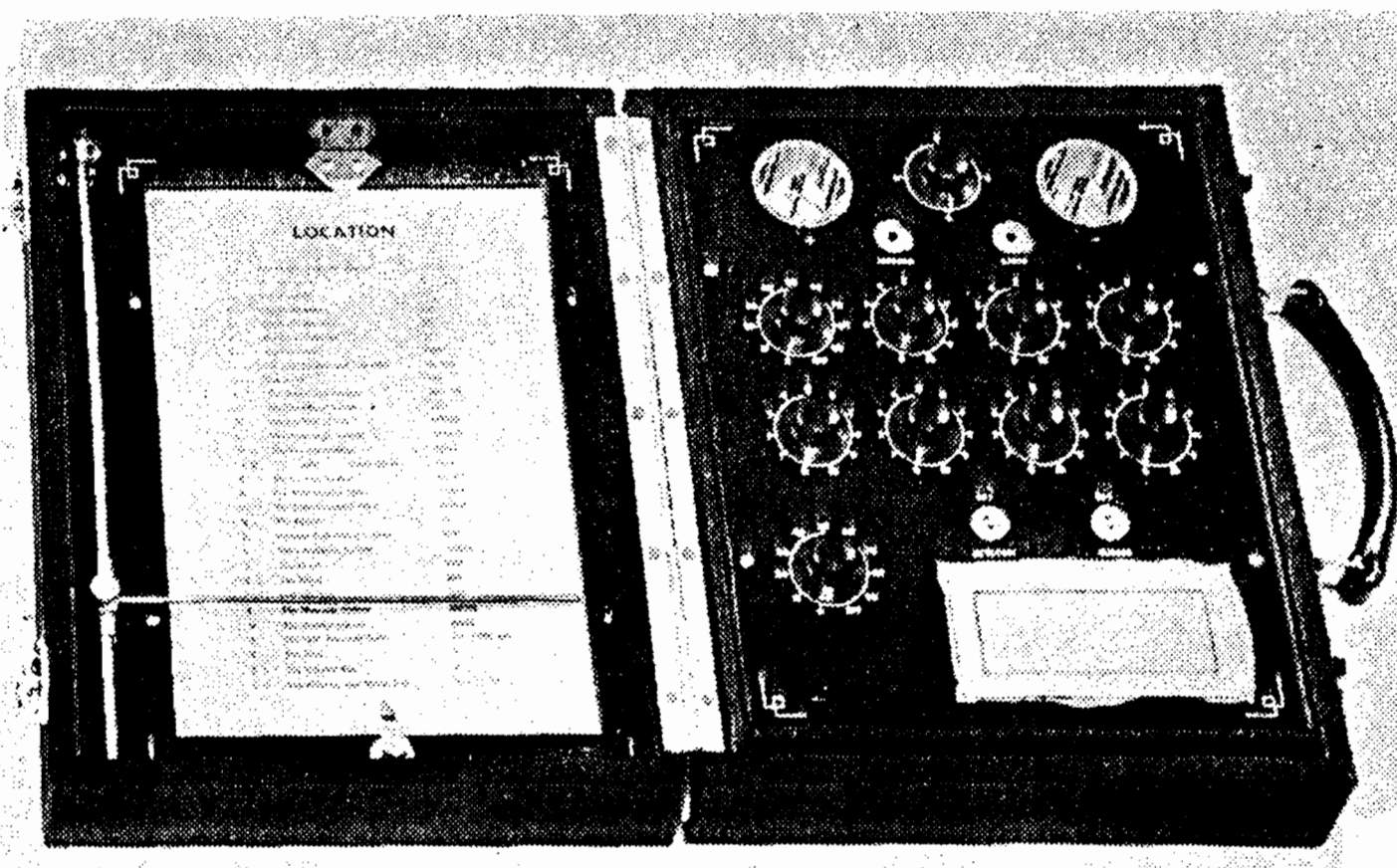


FIGURE 4. Photograph of the standard Delawarr radionic diagnostic instrument.

repeatedly across the membrane without pressing so hard that the rubber bunches up and folds and makes a "sticking" sound. The no response to a held thought is that nothing special happens as the mem-brane is rhythmically rubbed. The yes response to a held thought is that friction between the finger and the membrane seems to increase and the "stick" condition is obtained; i. e., the membrane folds or flaps. A number of very useful modifications have been made to the basic instrument by various investigators. The De la Warrs designed the present instrument from its predecessors using the technique outlined below.

The technical method of device operation for a health diagnosis is to first place the witness in the proper well of the instrument by finding the response to the mentally held question "Is this the proper well for this patient?" Next the magnet is slowly rotated by hand into its C. R. P. for that patient where a stick occurs to the mentally held question "Is this the correct magnet rotation for this patient?" Next, one takes a sheet on which is written the most troublesome symptoms and, with all frequency dials set at zero and the effectiveness dial at 10, one either uses the cursor or the probe lead to touch each question in turn to see where one obtains a stick to the mentally held question "Is this the symptom of primary importance?" After finding the major symptom, one tracks down the general location of the more important conditions supporting this symptom, followed by a more precise location, followed by the cause or causes of the trouble in terms of specific bacterium, mineral imbalance, psychological conditions, etc.⁽⁴⁾ Proceeding in this way, one can resolve the causes to the point of being able to prescribe particular remedies for the patient.

In principal, if one maintains a healing attitude of high consciousness, it seems possible with this procedure to obtain any of the information obtainable by a first-rank psychic like Edgar Cayce. However, this applies only if the healer's attitude is proper and if he recognizes that he must ask the correct set of questions to obtain the information via this device instead of merely recording the spoken statements of a psychic.

Here we see what is perhaps the major limitation on the use of this device: the operator must have a sufficient base of knowledge and perception to ask the right sequence of questions. This is probably why different operators often obtain somewhat different results. They ask different questions because of their different degrees of fundamental knowledge and also because of their different degrees of intuitive or psychic ability. These factors are connected and the total process is probably influenced as well by the level of consciousness of the operator.

FUNDAMENTAL MODEL OF SUBSTANCE

Before considering a possible model of device operation, I must hypothesize a fundamental model of substance that leads to a variety of forces and radiations that are involved in the operation of this device, in other psychoenergetic phenomena and in the totality of nature.

I postulate, following the Yoga philosophies concerning the seven principles operating in man, that these constitute seven different types of substances that obey seven unique sets of natural laws and, based on the polarity principle, form atomic and other states of combination at each level of substance. From these different levels of substance, different types of radiations emanate. With this model we see in operation the metaphysical principle "as below, so above--as above, so below."

The seven substances, in an ascending scale of fineness and energy content, are physical, etheric (or bioplasmic as the Russians term it), astral, intuitive mind (M_1), intellectual mind (M_2), spiritual mind (M_3) and spirit. There is probably nothing particularly important about this choice of names; it just happens to be that given in the Yoga philosophy. These substances are presumed to exist everywhere in nature and to interpenetrate within the human body; i. e., they all exist within the physical atom and organize themselves in different macroscopic patterns within the body. (Think of seven transparent sheets containing seven different circuit patterns each in a different color--put them together and you have the complete organization of the different levels of substance in the body.)

Although the different energy fields perturb each other normally in only a small way, they can be influenced to do so in a strong way by the agency of mind. It is presumed that waves of one type of mind field can be uniquely correlated so as to cause strong correlation, and thus energy transfer, with waves of a different level of substance. This means that a coherent mental image, such as for example one concerning a physical change in the body, creates a coherent potential distribution in the etheric dimension, which manifests ultimately as a coherent change in the energy patterns of certain spatial locations of the etheric body. This serves as a coherent potential distribution applied to the physical level which eventually causes specific changes in the energy patterns and atomic reorganization of the physical level of substance. We see here a characteristic pattern of cause and effect steps which I shall call "The Ratchet Effect."

This ratchet effect is a sequential mapping procedure (like mapping mathematical functions from the real to the complex plane and vice versa) via the following steps: (a) mind image generation to (b) etheric potential distribution to (c) reorganization of etheric substance to be in harmony with this potential distribution requiring time τ_E to (d) physical potential distribution changes during the reorganization of etheric substance so that a force exists for the reorganization of substance at that spatial location of the physical level. This reorganization on the physical level requires a time τ_P .

In Figure 5, a schematic diagram of possible spectral distribution curves (intensity versus frequency) is given for these different levels of substance. They should really be plotted on individual axes, as indicated on the insert, since we are discussing different kinds of radiations for each level of substance (and there may be more than one major type

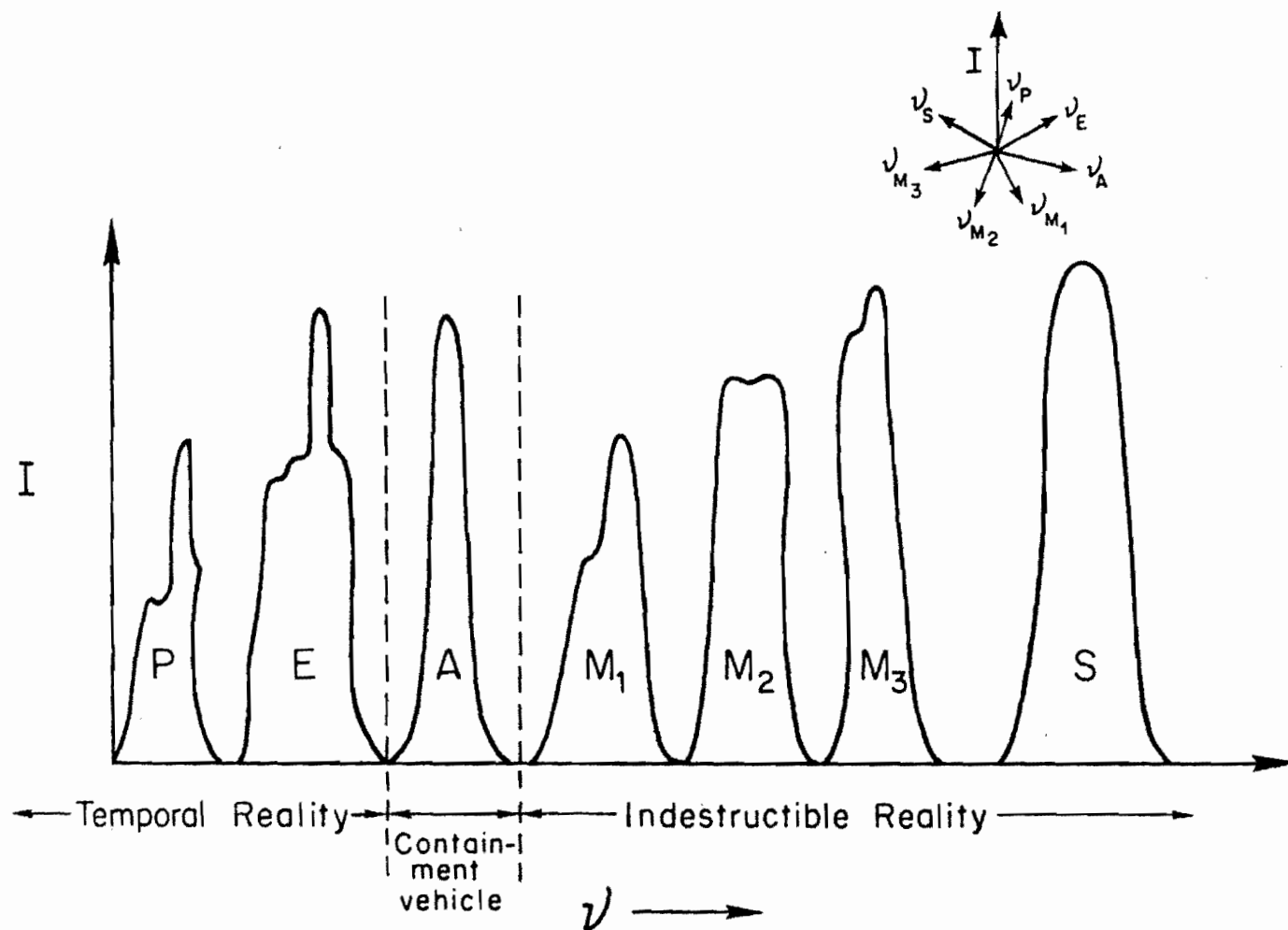


Figure 5. Schematic spectral distribution curve illustrating, along one coordinate, relative radiation characteristics of the seven levels of substance.

of radiation from a given level of substance). However, for pedagogical purposes, there is value in having them represented on one axis. It is from this diagram that we may see the basic radiation components that comprise the human aura.

Here, the first two levels deal with the temporal reality of physical man, and the fundamental waves of substance are characterized by a space-time frame of reference. However, the space-time frame for the etheric level is complementary but different from the space-time frame for the physical level with which Einstein's name is so strongly associated. The third level is primarily a containment vehicle for the indestructible reality of continuing man and, as such, is an envelope for holding the upper four levels of substance of an entity together between incarnations. The wave functions of the mind and spirit levels of substance are characterized by a frame of reference dealing with potential coordinates rather than space-time coordinates. In fact, it is proposed that space and time are properties of the mind and spirit waves just as mass and charge are properties of electromagnetic waves in the space-time frame. All illness has its origin in a disharmony between the mind and spirit levels of the entity and that of the universal pattern for the entity. This disharmony works its way to the physical level via the ratchet effect. Permanent healing and wholeness require that harmony with the universal pattern exist at the mind and spirit levels. Thus, healing at the physical or even the etheric level is only temporary if the basic pattern at the mind and spirit level remains unchanged.

Focusing attention on the first two levels again, the etheric body contains an important energy circuit whose counterpart in the physical body is the circuit called "the twelve meridians of Chinese acupuncture."⁽³⁾ The energy flows in the etheric circuit are inductively coupled to the energy flows in the physical body, and this fourth circulatory system strongly influences the health of the physical vehicle. These two bodies are also coupled via another circuit through the agency of the seven major chakra-endocrine pairs of the system. The chakras are organizations of substance in the etheric body, whereas the endocrines are organizations of substance in the physical body. They occupy the same physical location in space and function as special receiver-transducer-transmitter stations for the various forms of energy involved in psychoenergetic phenomena. These circuits will be discussed later. Let us now consider a rationalization of the four main aspects of the radionic device and then a simplified model of device operation.

RATIONALIZATION OF FOUR MAIN ASPECTS OF THE DEVICE

First, is a frequency (or ratio-set) scale a meaningful scale for information mapping?

If we assume that our information source has stored and categorized all possible thoughtforms--these include all possible physical conditions existing on this planet as a sub-set of the super-set of thoughtforms in the cosmos--they can be readily classified as frequency sets or as amplitude spectra for a range of frequency in much the same way as

wave information is related to a specific picture in the television transmitter-receiver system. Thus, a particular waveform can be used as an operational transform of a particular thought.

The role of the witness as a link with the patient relates to the postulation that the bloodspot contains at its cellular level information on the entire organism. So to be in proper phase relationship with the blood (in resonance with its wave field) is to be in resonance with the entire organism. This process seems to be exactly like that involved in the process of psychometry.⁽⁵⁾

The role of the magnet is to tune the device to be resonant with the wave field of the individual. The unique property of the magnet for fulfilling this function is not to be found at the physical level of the magnet, since it exhibits cylindrical symmetry of field strength at this level. It is suggested that radiation from the mind level (M_1) of the operator induces a certain field in the mind substance of the magnet, which produces a reorganization or reorientation of dipoles on several levels of substance. It is this which allows the tuning to the witness wave field.

Concerning the detector cavity and the "stick" technique, the finger rubbing the diaphragm of the detector creates surface waves in the membrane and sound waves in the cavity. This sound input to the cavity contains the fundamental resonant frequency of the cavity plus its higher harmonics. The finger presses on the rubber diaphragm hard enough to cause it to ripple, but not hard enough to cause it to bunch up, flop or "stick." Thus, if anything in the cavity amplifies the fundamental or harmonic mode of the sound wave, the oscillation force perpendicular to the membrane will increase; this has the effect of an added stroking pressure, and the "stick" condition is manifest. Thus, the resonant condition in the cavity acts as a perturbation to the near-critical, traveling surface-wave in the membrane. This causes it to become unstable and to develop a field condition which appears as an enhanced friction to the stroke and to a noise of a stick/slip variety.

It is anticipated that the relevant information is contained within the cavity as resonant E- and H- waves (of conventional wave-guide terminology) and, at the correct dial setting, coherence of wave fields sets in and produces field-induced polarization of the air molecules leading to natural bunching of the air molecules into a pattern consistent with sound wave amplification and thus the stick condition.

SIMPLE MODEL OF OPERATOR-DEVICE FUNCTIONING

The foundation for the entire process is laid by the healing attitude of the operator who tries to raise his level of consciousness in order to be an effective healing channel. The schematic diagram for the process path is illustrated in Figure 6. We see that the process proceeds with the intellectual mind (M_2) of the operator which consciously formulates the question and requests, with the proper healing attitude, spiritual mind (M_3) to manifest unencumbered and set the diagnostic process in operation. Spiritual mind (M_3) obtains the information from the Universal Information Source and projects the information to the etheric/

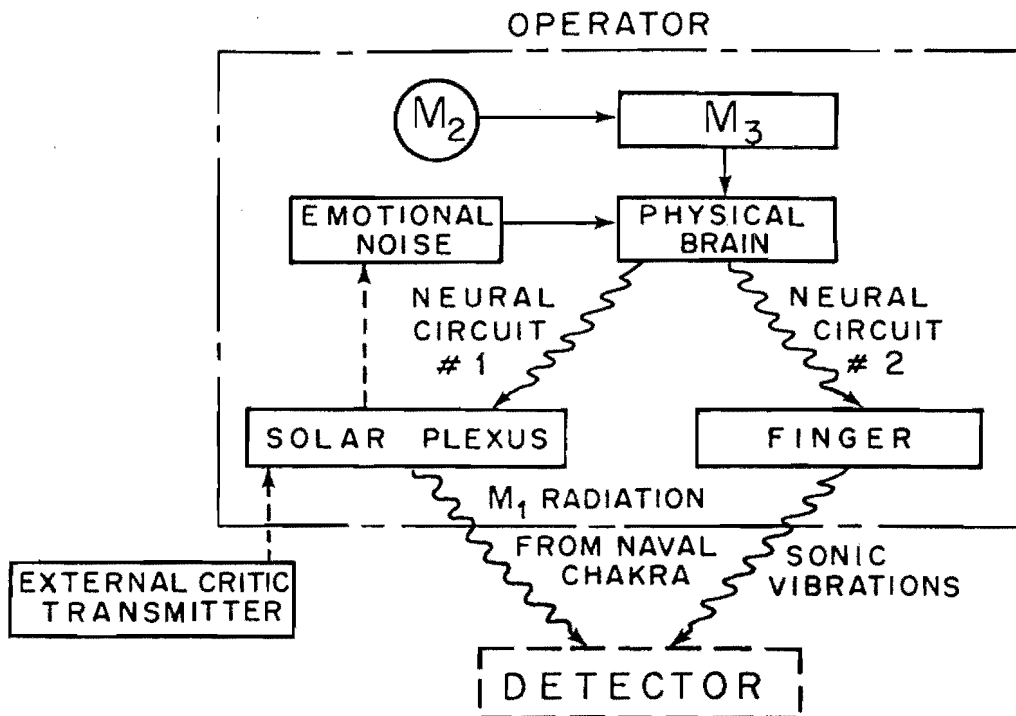


Figure 6. Simple model of information transfer between operator, information source and detector.

physical brain combination. These transform it into signals which proceed down the etheric and physical neural network pathways to (a) the solar plexus and (b) the finger on the detector membrane. If this information is received in undisturbed form (emotional brain noise, etc.), it is felt that the intuitive mind (M_1) of the solar plexus broadcasts the exact waveform appropriate for the information toward the detector cavity.

In order for clear, reliable information transfer to take place, one must look to the underlying emotional stability of the operator so that a minimum of emotional noise enters the brain to mix with and distort the information coming from the M_3 level. Thus, an important step in the operator's procedure is the attuning to the subject and the quieting of the emotional self. On some occasions, if another entity is present who is critical or skeptical of the entire operation, he radiates an antagonism that is received at the emotional level of the operator's solar plexus and this, in turn, can seriously affect the operator's brain-noise level in a subconscious manner.

This is the simplest level of modeling of the device operation, but it illustrates what can be achieved by seeking instrument response to a series of mentally held questions. It also provides a framework for serious experimental investigation.

CONNECTION WITH VIVAXIS AND ACUPUNCTURE

One of the basic postulates of the Vivaxis theory⁽²⁾ is that when an entity is born, some type of signal generator is created at that

specific location of the earth--not on the physical level but on the etheric level of substance. A bipolar wave field develops between this energy source and the entity. It is a transmitter of a form of energy to the entity and a receiver of information from the entity no matter where the entity wanders on the earth. It is suggested that this wave field is the radionic wave field described by George De la Warr as the "Nodal Network of the Ether" and that the nodal points on the surface of the physical body are the acupuncture points of the ancient oriental system of preventive medicine. These points would then constitute the dipole radiators of the human antenna which is located at the etheric level of substance in the body. (The radionic wave field is at the etheric level of substance.) A visualization of the counterpart antenna on the physical level is given by a mapping of the twelve meridians, a portion of which is illustrated in Figure 7.

In Figure 7, the lines represent the locus of the meridian circuits and the points represent the surface locations of channels that readily connect with these meridians. At present, about 1000 of these points have been discovered on the body. By performing stimulatory actions on these points, one is able to affect the energy balance in these circuits and the functioning of particular glands and body systems nourished by the energy in the particular meridian. (When in England, I was treated by acupuncture for a gall bladder problem and found it interesting to hear the needle enter point 13 or 15 as a "crunch" sound but felt no pain whatsoever. The total treatment was remarkably successful.)

Our understanding of this topic reveals that there is thought to be a deep internal circuit and the shallow subsurface circuit illustrated in Figure 7. Russian studies^(6, 7) reveal that the acupuncture points can be readily detected with an instrument that measures resistance. If one electrode is held in the hand and a second electrode (connected to the first through an ohmmeter) is moved over the body, such resistance measurements may be made. In general, the resistance reading will be about one million ohms; however, if an acupuncture point is contacted, the resistance drops to about 50,000 ohms. Likewise, by connecting different type electrodes (differing in work function) to two acupuncture points, a voltage of about 50 millivolts results and a current of about 10 microamperes can be drawn. This suggests that there is a circuit in the body that is a low resistance path, and that this circuit has battery-like properties. Adamenko⁽⁷⁾ performed an experiment wherein he injected radioactive phosphorus (P^{32}) into one of the acupuncture points and searched around the body to find where the P^{32} was localized. He detected it at other acupuncture points along the meridian (suggesting that a type of fluid flow occurs along the meridians).

Adamenko⁽⁸⁾ has shown that by measuring the resistance between two symmetrical acupuncture points on a person who is ill (one on each side of the body), the resistance is different by measuring left to right compared to measuring from right to left (called the semiconductor effect). The sicker a person is, the greater is the differential resistance, ΔR , and it vanishes for a healthy person. This seems to be a

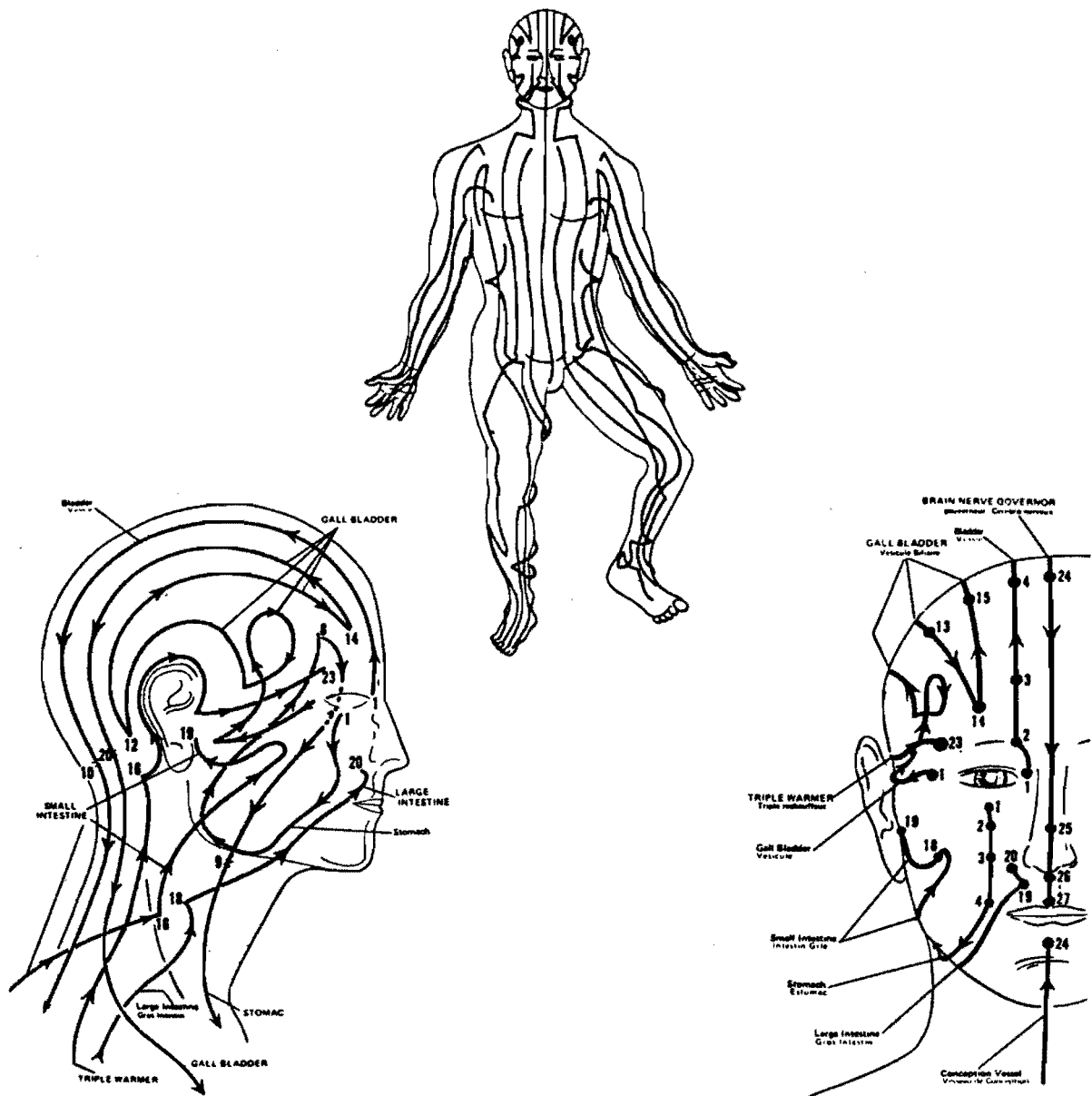


Figure 7. Some meridian circuitry and some acupuncture points in the body.

simple way of telling which meridians are unbalanced and which body center is causing the trouble.

An experiment with a healer (use of hands) was conducted utilizing the semiconductor effect. Adamenko⁽⁸⁾ measured the differential resistance, ΔR , on both the patient and the healer before the treatment and also after the treatment. He found that ΔR decreased for the patient and increased from zero for the healer. It seems as if the radiation from the healer to the patient helped to correct the imbalance in the patient's energy circuit but at the expense of creating an imbalance in the healer's identical circuit.

To understand what might be happening here, I find a log jam

analogy helpful. Think of the meridians as the bed in which a stream flows; the stream carries bits of debris (coagulated colloidal particles) that can become hung up at particular points of obstruction (acupuncture points), and in doing so necessitate greater pressure to cause the fluid to flow past the constriction in the meridian. This pressure differential somehow manifests itself as an illness in certain parts of the body that are not getting enough energy. What is done to break the log jam is to stimulate the acupuncture point--either by massage, with a needle, burning herbs, laser light or an electrical current pulse. All of these methods seem to work. This is probably a very naïve model but at least it helps us to visualize the situation.

In reiterating, the vivaxis, the radionic wave field and the antenna receiving the energy at the body level are all at the etheric rather than the physical level of substance. A very important energy for life functioning is received by this antenna. If the antenna has a serious defect, then a portion of the primary energy circuit is only weakly charged and the secondary energy circuit, certain meridians in the physical body, will be low in energy and physical disability will probably result.

It seems that we have here an explanation of the homing instinct of the salmon. They are hatched in an inland fresh water stream or pond in the spring. They go to the open sea by autumn, travel thousands of miles, and five years later return to their place of birth to arrive in time for optimal egg hatching conditions. They find mates, lay eggs, fertilize them and then die within four to seven days. I would propose that it is the vivaxis beam that acts as the homing beacon and a biological time clock indicates when (perhaps triggered by the information on the radionic wave field of the salmon).

There is a probable connection between vivaxis and astrology. We must expect that there will be a vivaxis for a human, an animal and a plant and also for planetary bodies like the earth, sun, moon, etc. If the idea is correct, then the vivaxis for the earth is on the sun, that for the moon is on the earth, and so on for the other planets. These energy field configurations at the etheric level may be strongly affected by certain planetary configurations at the physical level.

There is only a slight amount of information available concerning the characteristics of the proposed human vivaxis wave field⁽²⁾ and nothing at all concerning the governing equations of propagation. If we consider Figure 8, illustrating possible locations of the vivaxis generator located at distance R from the earth center (altitude H_V) and the entity located at distance R_1 from the earth center (altitude $H_E > H_V$), some simple statements can be made about the wave field⁽²⁾. In region I, ($H > H_V$), the polarization vector of the wave rotates clockwise in the space to the right of the line joining V and E and counterclockwise in the space to the left of the VE line (looking from V to E). In region II, ($H < H_V$), inversion of the polarization vectors takes place. Very likely, a phase shift occurs in this special wave field at $H = H_V$ and this phase shift may be a function of the surface coordinate, S , between V and E . At the entity position with E facing V , there appears to be only a

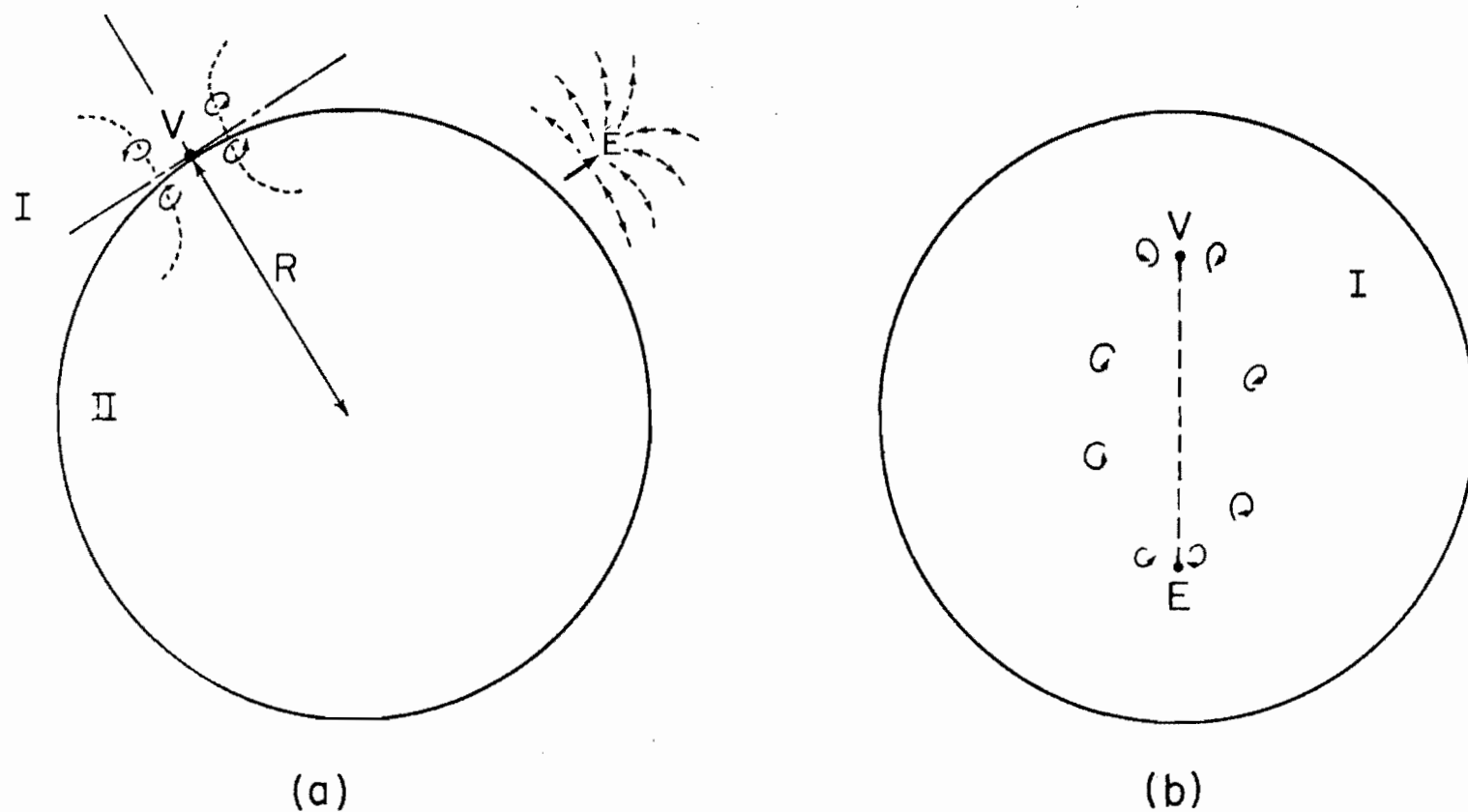


Figure 8. Schematic illustration of relative positions for the entity, E, the vivaxis generator, V, and the spiral character of the wave field--(a) elevation of the earth (II) and (b) plan section of the earth from above (I).

horizontal component of the wave field and zero vertical component. (2) As E moves out of this orientation, the vertical component increases in magnitude. (2)

The etheric level of substance may consist of an ordered arrangement of etheric molecules, rather than a thermally disordered arrangement such as one finds on the physical level. This would allow meaningful energy exchange with the polarized wave field and would be consistent with the Soviet observations that polarized light is emitted by the bioplasmic body. This is also consistent with the vivaxis description given by F. Nixon, (2) although she did not direct her comments to other than the physical level of substance. To begin to understand why substance on the etheric level behaves in such a different manner from substance on the physical level, it is necessary to discuss the space-time frame of reference for describing waves in the etheric, and that is beyond the scope of the present paper.

THE ENDOCRINE/CHAKRA SYSTEM

In this section, I propose a model of how we enhance our radiesthetic abilities and how we tap primary energy streams in the cosmos. The procedure relates to balancing and reinforcing another circuitry system in the etheric and physical vehicles.

Think of a current of vitality that flows through the etheric circuit which links the seven chakras--these being at the location of the spleen, the base of the spine, the navel, the heart, the throat, the forehead, and the top of the head, as illustrated in Figure 9a. These are very essential organs in the etheric body. In the physical body we have another current of vitality, and it links up the seven major endocrine centers. These are, from the bottom, the gonads, the lyden (cells of Leydig), the adrenals, the thymus, the thyroid, the pineal, and the pituitary, as illustrated in Figure 9b.

Try to visualize these bodies as two transparencies superimposed one on the other and think of the connecting circuits just as simple loops of parallel wires. Think of the chakra/endocrine pairs, which are located in the same places in the body, as boxes attached to these loops. Think of these boxes as having three segments--that relating to the etheric on the left, that relating to the transfer between the etheric and the physical in the middle and that relating to the endocrine on the right (see Fig. 10). The function of these chakra/endocrine pairs is very much like that of power receiving stations and transmitting stations in our vehicles. Both power and information are tapped from a cosmic or environmental source into the etheric. It is transduced into a different form into the physical, is used to function in life and, in transmuted form, is radiated through the endocrine/chakra unit back into the environment. The currents in the individual circuits provide important energies for various parts of the body. In principle, we can think of great energy streams flowing through space and passing through our bodies unabsorbed and unnoticed unless we tune the chakras to couple with this power source and transduce some of its energy into the etheric system.

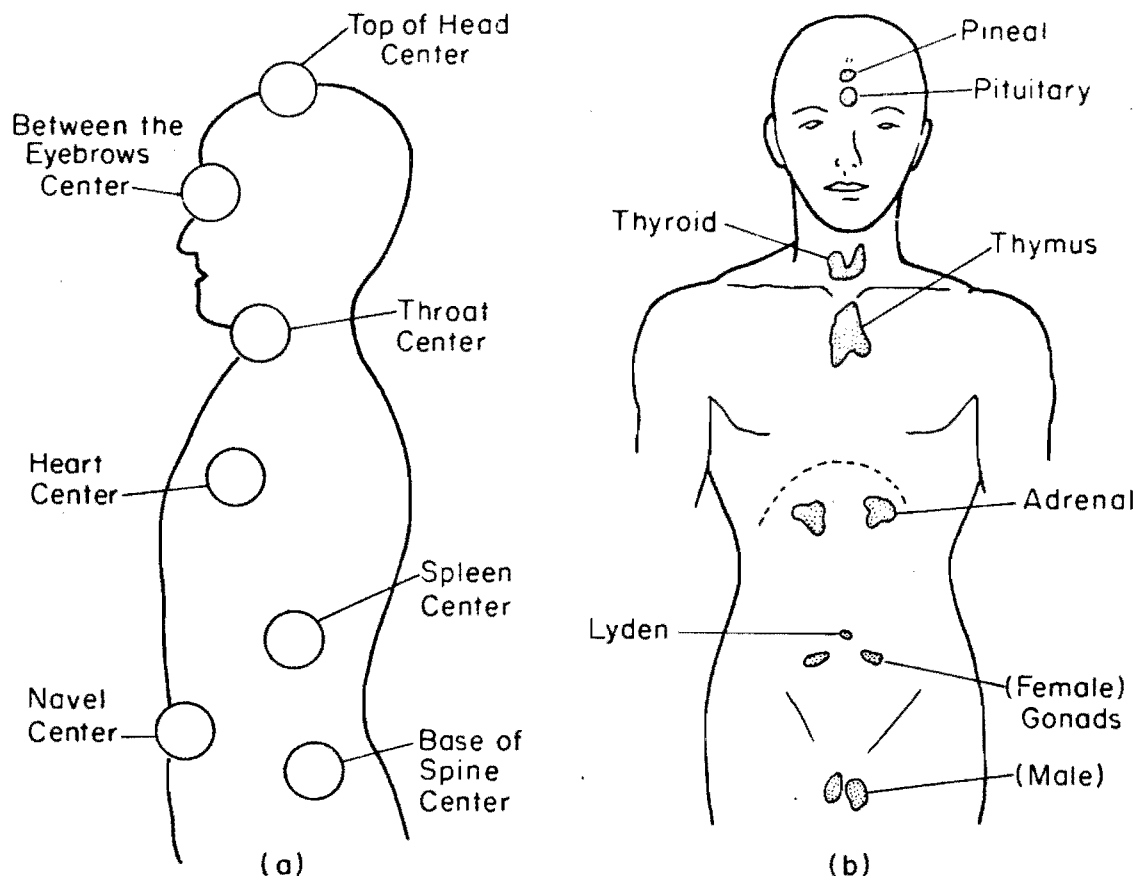


Figure 9. (a) Location of the 7 major chakras at the etheric level of substance,

(b) location of the 7 major endocrine glands at the physical level of substance.

One of our goals is to arrange our etheric/physical system so as to deliver maximum power to the physical body from the environmental energy stream. This seems to be a question of tuning the chakra to the primary source, decreasing the resistance in the circuits of the body and balancing the loads of this system. Now, from electrical engineering we learn that a power generating station with a variety of complex loads (like transformers) delivers maximum power to these loads (or working stations) if they are balanced with respect to each other. Thus, we do not need to concentrate so much on any one chakra/endocrine pair, but on balancing the system; i. e., the different loads within the total system.

One reason for wanting to tune the chakra/endocrine systems relates to the transmitting of spiritual and healing qualities into the earth environment. These seven endocrine centers have been called our sacred centers, and through them we radiate transmitting information of a quality (frequency) associated with that center.

As an example, the thymus gland is supposed to be the center that

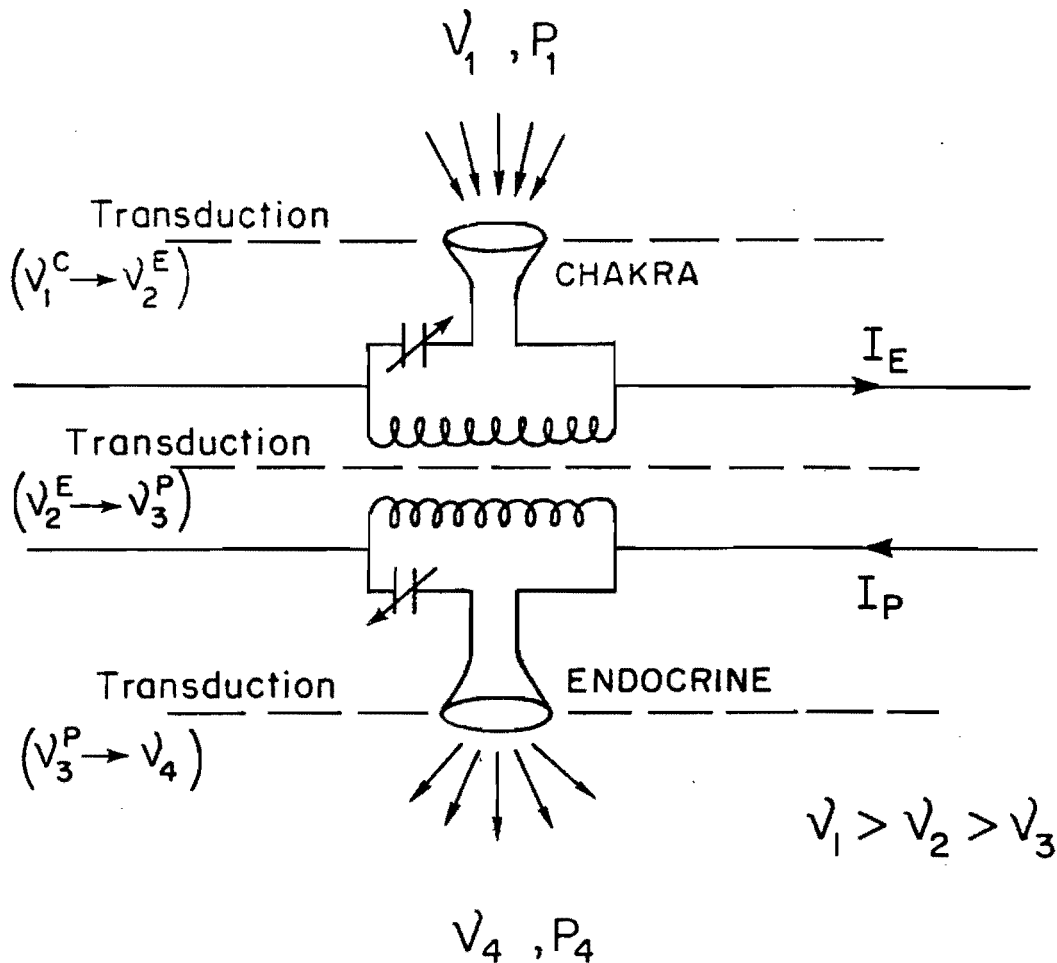


Figure 10. Schematic illustration of tuning and transduction aspects of a chakra/endocrine pair for tapping power from the cosmos.

controls the quality of love in all its spectral range from hate through the various expressions of what we call love. Now, I postulate that an entity radiates from this gland a field that is broadcast through space and is absorbed in the similar gland by another entity. This stimulates the gland and generates some biological activity within the organism. If the second entity radiates an in-phase vibration back to the first, then the love consciousness can form a bond between them. Now, if the first entity radiates at small power and over a very limited range of expression, then only a few selected individuals will receive this radiation and be aware of this love. However, if the entity has built himself to radiate at large power and over a very broad band of the spectral distribution, then many, many entities will receive this radiation, be aware of this love and be nourished by this love. Since most of the audiences of Christ did not understand him intellectually, I suspect that the reason they had such a great response to him was because he was transmitting from this gland at very, very high power levels with very, very broad band trans-

mission which was received by, absorbed by, and served to nourish, many people. They were aware of it only at an organismic level.

I believe this is what we want to do! We want to build ourselves to have large power within our physical/etheric system and transmit through these chakra/endocrine pairs at a high level of consciousness. Thus, first we need the power and then we have to adjust the glands so that they transmit at a high level of consciousness. Of course, if we can do this, we will also be very sensitive to low intensity radiations of this type flowing in our environment. We will have a well-developed radiesthetic ability.

How do we do this? How do we tune the system? Certainly one of the ways is to reduce the resistance that is in the circuit. This can be done by reducing the physical dross in the system via some aspect of diet. However, that is probably a necessary but not a sufficient condition. I postulate that the most important thing to be done is to apply a mental polarizing field to the gland which serves to constrain the gland to function or radiate in a different mode than the usual habit mode. In this way, we can gradually transform the gland.

To see how this may be accomplished let us consider an example from the physical world to illustrate the principle. Let us say that we wish to make a strong magnet out of a particular metallic alloy. The simplest way to make a magnet out of such a material is to heat the solid to a high temperature where the chemical constituents of the alloy all go into solution (much as salt or sugar go into solution in water as you heat the water). Then, after soaking for a period of time at the high temperature, cool the alloy through a critical temperature range--little particles of a magnetic material come out of solution (again, very much as salt or sugar would come out of a hot solution if you cool it).

Now, think of these little particles as being like magnetic needles with an arrow on them. They come out of solution and the arrows are pointing in all different directions, as illustrated in Figure 11a, so that the total or net magnetic field, H_{net} , of this material would be the sum of all the components of these arrows pointing in a particular direction. Because they are almost randomly oriented, the vector sum in any direction is very small. We have made a magnet, but not a very good one! How can we do better? We might apply an external magnetic field to the material during the cooling stage; i. e., apply a magnetic field, $H_{imposed}$, along the axis of this bar as illustrated in Figure 11b. Now, with this magnetic field on, as the magnetic needles come out of solution, their birth and growth are influenced. Now, instead of being randomly oriented, they orient themselves very much in alignment with the field. Thus, after you cool the material and remove the imposed magnetic field, you find that your material now has a very strong net magnetic field, H_{net} , when you add up all the little arrows. You now have a very large internal magnetic field in the direction of $H_{imposed}$.

Following this procedure, the material has been processed in such a way as to increase its polarization in a particular direction--its useful polarization in this direction. This was done by the influence of an

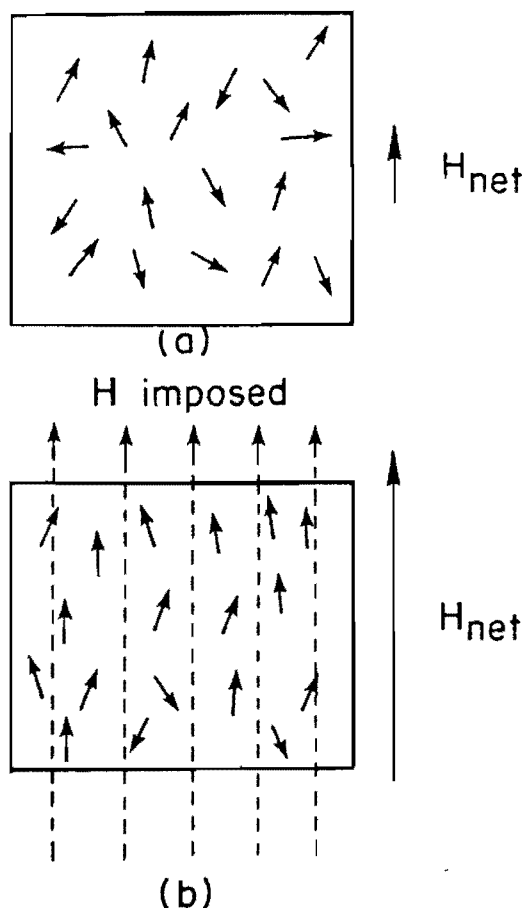


Figure 11. Schematic illustration of the formation of a magnet by the precipitation of a magnetic phase from solution under (a) no applied field and (b) the influence of an applied field, $H_{imposed}$.

external field during the birth and growth process of the precipitation of these magnetic particles. I want to emphasize this point in considering how to apply the procedure with a particular gland.

First, I want to postulate that the functioning of the gland is related to a polarization of the cells making up the gland on both the physical and the etheric level. Thus, the gland functions the way it does because of the structural organization on the cellular level. We want to change that essential structure--and we can change it by applying a mind field. We decide what the ideal response of the gland is and mentally apply that image to the gland.

To illustrate, let us choose the thymus as the gland we wish to transform. We want to make sure that its polarization is such that it radiates most easily in the love mode rather than in the hate mode. Thus, we take our highest conception of the expression of love, mentally apply that to the gland, and hold it on the gland. Visualize this gland with some mental field pointing in a particular direction that is supposed to indicate "high expression of love." In the gland, as in other parts of the body, millions of cells die and are born every moment; thus,

we have an analogous situation to the magnetic material example. We have a situation where cells are born in the presence of this influence field--this polarizing field--and they orient or polarize themselves closer in accordance with this influence field rather than to that field of the unconstrained gland.

Think of the influence of the mental field as that of putting a constraint on the gland so that it functions more easily toward the love mode. However, it is still very hard for it to function this way because its easy groove of operation is the habit groove, and that may not be a very high expression of love. However, if application of this mental field is continued, eventually all the cells in that gland will have been born under the influence of that field. So with the passage of time the gland is basically restructured in the presence of this mental field. The gland is eventually able to function in its habit mode most easily when it expresses this new kind of love. Then the mental field may be removed and that portion of the mind can be directed to work elsewhere, because the gland will now respond automatically in this new ideal way with respect to its expression of love.

Of course, with the passage of time, the entity will grow further in consciousness and, in so doing, develop a higher ideal of the expression of love, and thus will need to go back to the drawing board (or visualization board) and again reapply a mind field to again restructure the gland according to this new ideal.

This same procedure is the one responsible for the generation of the vital circuitry between the glands or between the etheric sensory system and the brain; i. e., this is how the linkages are made at the neural level of the physical and etheric bodies. The repeated act of trying to do something focuses the mental attention or mind field on the unconnected nerve ends that are important for successful fulfillment of the act. This mind field is ultimately manifest at the physical level as a voltage gradient between these nerve ends. The electrical stress polarizes the intervening cells so that they are eventually organized into appropriate nerve cells and the connection between the nerve endings is made. Electrical pulses can now flow and information can be transferred along this transmission line so that the brain may now know of the message the sensory receptors have been trying to get through for so long. It is a continual muscle-building type of process driven by desire and focused mind power.

I wish to underline or reemphasize that one-pointedness of mind (directed application of mind) is the key element in enhancing one's radiesthetic sense, one's ability to meaningfully use special instruments like a radionic instrument, one's ability to directly tune into the universal information source or one's ability to tap primary energy streams in the cosmos. Perhaps we can also see here the influence of one's attitude as he performs a function upon his adaptability to perform that function effectively. I wish also to strongly emphasize that it all occurs in a very natural way via natural processes having firm foundations in physics. However, much of what I have discussed concerns "tomorrow's

physics"--pointed to by discoveries today.

My purpose was to provide a theoretical construct to serve as a target for future experiments. Time will undoubtedly show it to be in error in many details, and many of the assumptions will eventually be considered naïve. However, we need a place to start in the unraveling of this vast story of Nature and the present paper is offered with that in mind.

References

1. (a) L. Day and G. W. De la Warr, "New Worlds Beyond the Atom" (Vincent Stuart Ltd., London, 1956).
(b) L. Day and G. W. De la Warr, "Matter in the Making" (Vincent Stuart Ltd., London, 1966).
(c) G. W. De la Warr and M. de la Warr, "Mind and Matter Journal" (the Delawarr Laboratories, Oxford, England, 1956-1967).
2. F. Nixon, "Born to Be Magnetic, Vol. 1" (Magnetic Publishers, Chemainus, British Columbia, 1971).
3. F. Mann, "Acupuncture (The Ancient Chinese Art of Healing)" (W. Heinemann Medical Books Ltd., London, 1962).
4. G. W. De la Warr, "Mind and Matter Journal," Vol. 3, #3, December 1959.
5. R. C. Johnson, "Psychical Research," p. 58 (Funk and Wagnalls, New York, 1968).
6. S. Ostrander and L. Schroeder, "Psychic Discoveries Behind the Iron Curtain" (Prentice-Hall, New Jersey, 1970).
7. V. Adamenko, Private Communication, September 1971.
8. V. Adamenko, Journal of Paraphysics, Vol. 4, p. 113, 1970.