



THE JOURNAL OF BORDERLAND RESEARCH

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James Borges, Director

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THE JOURNAL OF BORDERLAND RESEARCH

EDITORIAL

JAMES BORGES

There have been big changes taking place out here on the Borderlands of Science and Spirit. Michael Theroux has been called to work in another field, having dedicated the better part of the last 10 years to Borderland Sciences Research Foundation. Michael made some lasting contributions to Alternative Science, his research on Biological Communications re-opened the great work of L. George Lawrence and reintroduced a non-mechanistic approach to Interstellar Communication. We wish him the best in his new endeavors.

As I take up the task of Director I am filled with a sense of hope and a sense of grim determination. We have at Borderland Sciences the seeds for a World Revolution in Science and Spirituality. I have been researching subtle energies for the past few years here at Borderlands. It takes time and effort to synthesize the body of information that has been acquired over the past 56 years before it all hangs together. What emerges is a glimpse of the future, a world full of Radiant Energy and a true understanding of human Consciousness and how it relates to and creates its environment. We have moved beyond the stages of belief into direct experience through experimentation. Borderland Sciences are for those who roll up their sleeves and take actions to determine the validity of ideas.

It is for these determined seekers of knowledge that we pour our efforts into this Foundation, to keep that lamp burning in the darkness.

Between the entertainment industry taking over Alternative Science and large book publishers with their overnight service, it has been a struggle to keep the doors open and the research flowing. Borderland Sciences is up to this fight and with the support of the members will maintain our dignity and high standards of scholarship. If our members can resist the efforts of the Large Publishing Houses to alter the notion of what service is expected by the public we can continue to provide the best Research Reprints. The biggest hit we have taken is simply in customer satisfaction. If the Big Boys can get that book out to you overnight then why cant we here at the Borderlands? The reason - It's money! We cannot afford to lose millions of dollars a year. The big Dot.Coms have the resources to spend to play popularity contest. We have delays and problems, this is a fact of life out here on the Borderlands. What we have that they don't have is dedication and love; Dedication to each and every member of this organization to provide the best in quality research information and Love for the material we present. Borderlands is not just another online bookstore, it is an organization with a mission.

We continue to do work with the Vitic Energy Rods. The Galvanic currents generated are quite perceptible both with and without a galvanometer. This is re-opening the Volta-Galvani debates on animal electricity. It was this ongoing research that led to the discovery of the Piezoelectric qualities to the Trinity Pacs. Much more research needs to be done in this field, the discovery of the interface between electricity and human consciousness and vitality is looming. Work needs to be done to define and refine the model that explains how electricity and higher consciousness functions interact. The Trinity Pac and the Vitic Energy Rods give direct experience of this interaction. With careful experimentation and observation we should be able to make some headway.

Some terrific research done by Buryl Payne advances our understanding of the effects of solar-cosmic radiation and planetary position on Human Behavior. This is particularly important research, as the doom sayers are using the Solar Maximum to frighten people into buying their books. Once we acknowledge the role of Cosmic Radiation from the Sun and how it might be tuned by the planets, we can learn to work with this powerful engine. This research also goes a long way to validating astrology, another ancient science that has been ridiculed by modern science. The Ancients seemed to understand radiant energy in a very sophisticated way. We missed the boat because we inherited the mythology from the ancients with out their scientific understanding. We are on the path to rediscover the secrets of the ancient priest-scientists!

We continue to try and create models to understand provide a wider basis from which to approach the finer forces and subtle energies. The reprinted article from Nov-Dec 1991 called Transmutation through the Wave Field with its "Vortexian Mechanics" is a wonderful example of such research.

Robert Nelson is back with "Transmutations of Nuclear Waste," another in his fabulous series on transmutation. This article shows how a mix of the hard sciences and Borderland Sciences are going to play an important part in reversing some of the damage done by our misunderstanding of the dangers of deadly radiant energy.

We hope we have given you some good leads for Summer research, look forward to seeing some of your grass roots research in the mail. Enjoy the Sun!

James Borges
Director,
Borderland Sciences

PHYSICAL MECHANISMS IN ASTROLOGY AND HUMAN BEHAVIOR

BY BURL PAYNE, PH.D.

Independent research spanning two decades shows that solar activity affects people's behavior and that sunspot activity is a function of planetary positions - a significant step toward developing a science of astrology. The following synopsis of the data on sunspot number changes at the times of Earth - Uranus - Neptune alignments for 1989 to 1995 is preceded by an astrological point of view on the research.

Planetary positions are associated with real physical mechanism. Psychotic episodes, increased crime rates, accidents, heart attacks, flu, warring behavior and wife poisonings are only a few of the many human behavioral and health changes which have been found to be associated with sunspot activity of geomagnetic storms. Physical mechanisms are divided into three classes: those arising directly from the Sun, those arising from the geomagnetic changes caused by the changes in the Sun's activity, and direct geomagnetic changes associated with lunar aspects with some planets independent of solar activity.

Solar Effects

After a decade of observations I have no doubt that sunspots usually increase at times of heliocentric conjunction of two or more planets. Such effects have also been observed by John Nelson, an RCA radio technician (Nelson, 1951). But sunspots by themselves do not do anything; they are just holes in the solar atmosphere. Associated with sunspots are solar flares and other energetic events produced by magnetic forces within the Sun. Sometimes there are bursts of X-rays, which develop and fade within an hour; flares of visible light; and sudden increases in radio waves of all frequencies. Such energy pulses traveling at the speed of light reach Earth in eight minutes and appear to have some immediate effects on people. Precise mechanisms are still unclear but may be related to changes in water, which is constantly exchanged be-

tween living organisms and the environment.

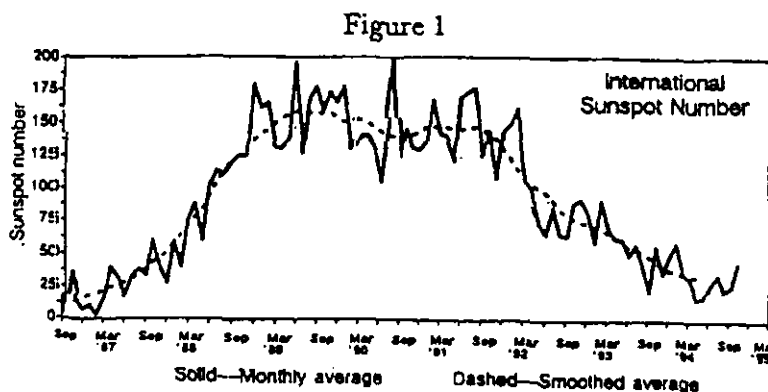
Besides the almost direct electromagnetic effects from the Sun, sprays of particles called solar wind change in intensity at times of solar flares, interacting with the Earth's magnetic field and producing disturbances called a magnetic storms. These particles, traveling much more slowly than light we, take from two to four days to reach Earth, but when they do, the entire Earth's magnetic field can change within one minute.

Lunar - Planetary Effects

When the Moon is conjunct or trine some of the planets, besides the direct effects on the geomagnetic field from the solar wind, there are often changes in the geomagnetic field. Usually the geomagnetic field is so variable from so many different causes that it is difficult to single out just one lunar aspect to stand out above the noise. In some ways not yet clear to me, the moon seems to act like an amplifier or lens, increasing the effects of planetary influences on the geomagnetic field. The effects are larger if the moon is full or nearly so.

Biochemistry

The changing magnetic field of the Earth can affect our endocrine glands and brain waves, influencing how we feel and behave. (Some studies on these topics are summarized in *The Body Magnetic*, Payne, 1991) At the smallest structural level minute magnetic forces produce a small wobble of the hydrogen protons in water



and some other elements. These protons are now thought to be like little spinning magnetic clouds. The precession, as it is called, results in the emission of a minute radio signal of very low frequency (within the audible range and lower). The effect had been known for 100 years and serves as the basis for MRI or Magnetic Resonance Imaging. Changes at this subatomic level apparently affect how the water molecules connect with one another, which in turn affect the rate of chemical reactions, the degree of colloidal suspensions, and other biochemical parameters.

There are gaps in my knowledge of biochemistry, so I can't provide all the details. There are also large gaps in general knowledge associating biochemistry and the behavioral characteristics uniquely associated with each planet. So let us now leap that gap and look at astrological considerations of Uranus and Neptune from the other side.

PLANETARY QUALITIES

Uranus

By observing human behavior each year when Uranus is in Heliocentric conjunction with the Earth, of geocentric opposition to the Sun, and by analysis of how Uranus operates in individual horoscopes and in relationships, I have come to the conclusion that Uranus is associated with sexual energy rather than with unexpected of erratic behavior, as traditional astrology says. I have found in individual horoscopes that people with the Moon or Venus conjunct or trine Uranus are sexier than normal, and in relationships Uranus heralds good physical sex, independent of emotional or spiritual connections. (These observations from the use of

a new synastry system called the Heart to Heart System, Payne, 1993) In a more general sense, Uranus may be associated with vitality, not simply sexual energy.

Neptune

With Neptune, too, I have observed nontraditional qualities. For instance, when Neptune and Earth are heliocentrically conjunct, people become unusually sleepy, especially when the Moon is full and conjunct Neptune. In analyzing relationships (using the Heart to Heart System), I have observed that people with Neptune trine or conjunct like to sleep or cuddle with one another.

Uranus-Neptune Conjunction

When these two planets approached conjunction in the late 1980's, I noticed disturbances in people's health, jobs, and relationships. People most affected were those whose Suns, Moons, or Ascendents were in Cardinal signs (Capricorn, Cancer, Aries, or Libra), and the effects have been usually disastrous! Over the past six years I have heard people say "This has been the worst year of my life!" The disruptions began in the late 1980's and are still continuing for people with late cardinal-sign emphasis.

Analysis of the sunspot data shows increased activity beginning as long ago as 1987, and most likely continuing until about 1999, when Uranus and Neptune are 11 degrees apart.

Why should Uranus and Neptune should have this effect is not completely clear. It seems to me that Uranus and Neptune are opposites, as are Venus and Mars, and Jupiter and Saturn. When these planets are conjunct, there may be a short circuiting of both the vital sexual energy and the balancing energy of sleep. I have observed a similar, but briefer, short-circuiting of one's love life when Mars and Venus are conjunct. I have also observed that people who have Venus conjunct Mars in their natal horoscope do not easily form partnerships. It is as if there is an internal short-circuit, such that these planets are not readily available to "hook" with others.

The conjunction of Uranus and Neptune has seemed to produce strong disturbances in peoples lives, perhaps because it is longer lasting. Both an indi-

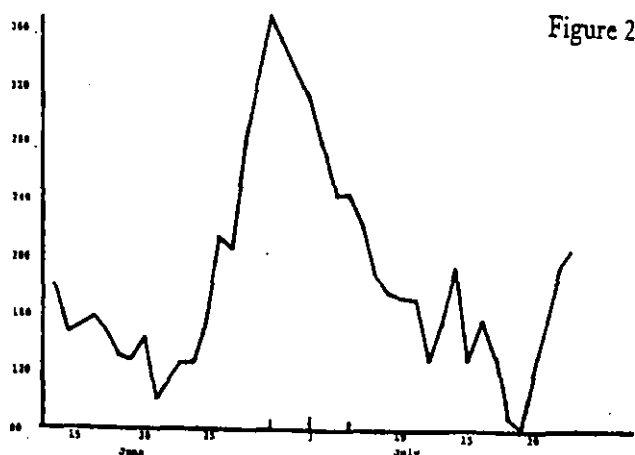


Figure 2

Sunspot Number for Earth-Uranus-Neptune Heliocentric Conjunction. Midpoint is July 3, 1990.

vidual's social and physical survival seem to have been adversely affected. Mine certainly has been (Aries moon, Libra Rising.) How about yours?

In the late 1980's Saturn conjoined Uranus and Neptune, adding further adverse effects.

In 1987 I wrote that we might anticipate an increase of sexual difficulties and diseases for several years. At the time I had scarcely heard of AIDS, and a few years later that, in addition to AIDS, the incidence of other sexually-transmitted disease had increased. Now the latest reports show that AIDS is not spreading as rapidly as expected, and some people with AIDS are surviving indefinitely. Perhaps this disease will be conquered, or will simply dissipate, as Uranus and Neptune continue to separate over the next five years.

THE RESEARCH AND DATA

Sunspots increase when two or more planets line up, an effect I've observed for over a decade. During the last six years, Uranus and Neptune, whose heliocentric synodic conjunction occurs every 171.4 years, have been within a few degrees of each other, which has proved to be an ideal situation to validate the hypothesis that sunspot numbers are associated with planetary positions, since with two slow moving planets in conjunction, three or more planets often lined up with the Sun. During this time, the Earth, in its faster moving orbit, transits Uranus and Neptune every year. Six months later, when the Earth is opposite Uranus and Neptune on the other side of the Sun, sunspots increase.

BACKGROUND

Compared to the Earth, Uranus and Neptune move very slowly. On April 16, 1989, Uranus was 8 degrees behind Neptune. On April 20, 1993, Uranus overtook Neptune, and by December 26, 1994, Uranus was 4 degrees ahead of Neptune. As early as 1988, I began to notice unusually high sunspot activity every time another planet came into alignment with this pair. This article focuses only on the Earth's alignments with Uranus-Neptune, since when other planets conjoin Uranus-Neptune, sunspots may form on portions of the Sun not immediately visible from

Earth, making data analysis slightly more difficult.

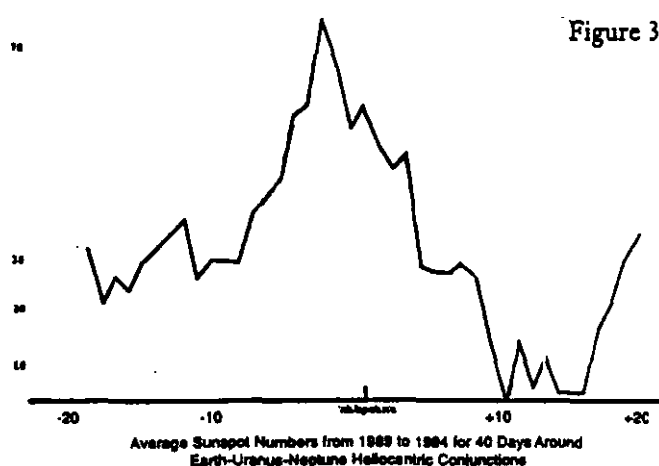


Figure 3

PROCEDURE

In this study I plotted daily sunspot numbers twice each year between 1989 and 1995 for 20 days before and 20 days after the alignments of the Earth, Sun, Uranus, and Neptune. During this time sunspot activity peaked in its eleven-year cycle and then began to decline. Figure 1 shows the general pattern of solar activity during this portion of the eleven-year cycle. The solid jagged line represents monthly averages of sunspot numbers; the dashed line represents the smoothed sunspot running averages for an eight month interval.

Figure 2 is a typical graph. When the Earth overtook Neptune on July 5, 1990 Uranus was nearly 6 degrees behind Neptune. The Earth-Uranus conjunction occurred on June 29-July 3, the midpoint, is marked on the graphs for the years 1989 through 1994 for the conjunctions (Earth on the same side of the Sun as Uranus and Neptune). All of these conjunctions occurred either at the end of June or in early July, since Uranus and Neptune barely move while the earth makes a full orbit.

In order to make this average graph it was necessary to take into account the general trend of solar activity for each year, as shown by the smoothed average (dashed line) in Figure 1. Fortunately, the government reports give the numerical value of this curve for each month, so it was a simple (if tedious) operation to subtract each individual sunspot number from the

monthly smoothed average to produce a normalized

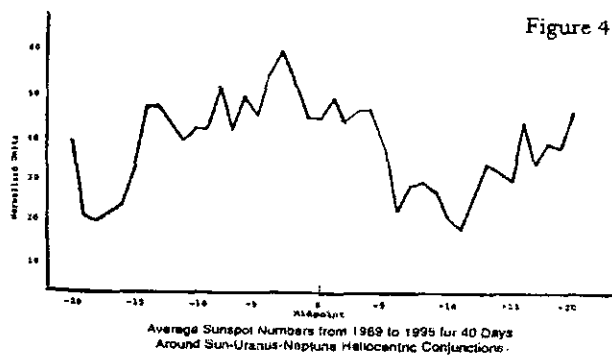


Figure 4

set of numbers which can be meaningfully averaged.

Figure 5 shows a typical graph for December 1990 through January 1991, when the Earth was in heliocentric opposition to Uranus and Neptune. In this case, sunspot numbers did not increase as close to

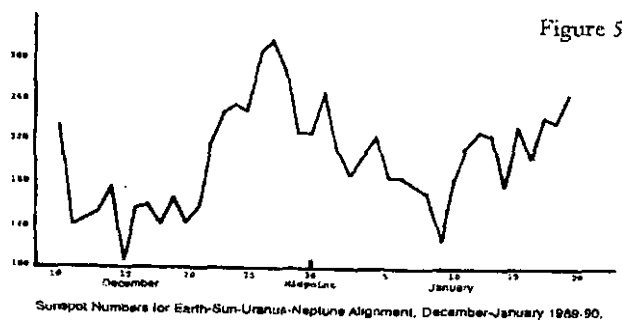


Figure 5

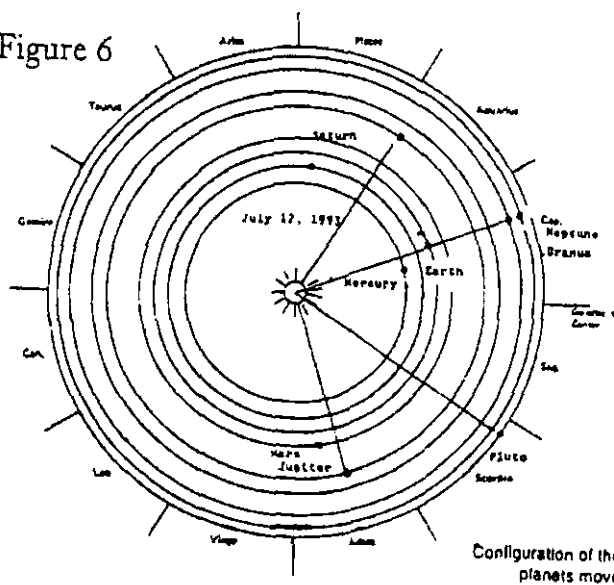
the midpoint of Uranus and Neptune, which were about 5 degrees apart. The increase in sunspot numbers at the right side of the graph may have been due to the conjunction of the Sun with Saturn on January 18, 1991.

Figures 6 and 7 show patterns of planets in the solar system for a summer alignment and a winter alignment.

RESULTS

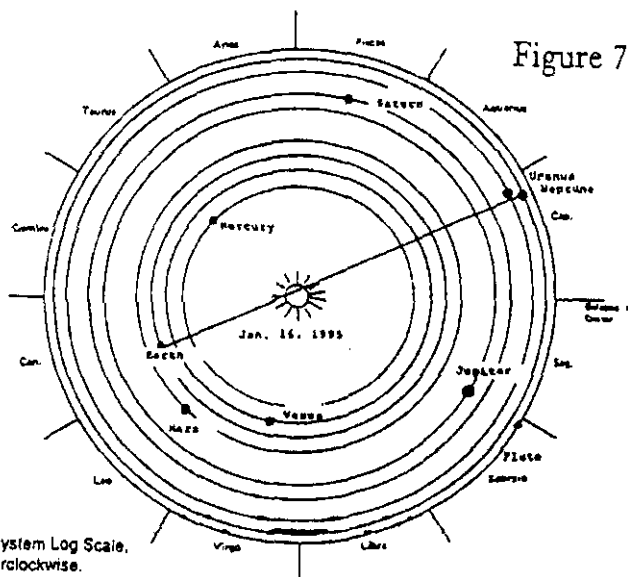
The results clearly show that sunspot numbers increase markedly at alignments of Uranus, Neptune, the Earth and the Sun. The effects are not so clearly defined when the Earth is on the opposite side of the Sun, apparently because other planets were also conjunct or opposite Uranus - Neptune at almost the same time as the earth was opposite to them. By coincidence, during the years analyzed in this study, every other planet except Pluto was involved in a close conjunction or opposition with Uranus - Neptune within a few days of their alignments with Sun and Earth, resulting in multiple sunspot increases and smearing the graph of the average sunspot numbers. Even without this effect, I've noticed that when the Earth is opposite another planet (in heliocentric opposition to that planet), sunspot increases are usually less than when Earth is on the same side of the Sun as another planet (in heliocen-

Figure 6



Configuration of the solar system Log Scale, planets move counterclockwise.

Figure 7



tric conjunction to that planet).

DISCUSSION

The solar data confirm the previous findings that at least some increases in sunspot number and associated flares are connected with heliocentric planetary conjunctions. Not all sunspot number increases are associated with planetary conjunctions. In fact, some of the larger ones are usually not; the Sun has its own internal processes. However, it seems that about 75% of the ordinary ups and downs of sunspot numbers are associated with planetary conjunctions. By recognizing this, predictions can be more accurate.

No satisfactory explanation of how planetary conjunctions are associated with sunspots has been found. Gravitational effects seem to be too small. Perhaps there are internal mechanisms within the Sun tracking each planet, erupting into greater visibility when two or more planets align. Or perhaps the planets and Sun are in resonance, so inverse square laws do not apply. Data from more space probes may help to solve this problem.

GEOMAGNETIC ACTIVITY

Sunspot activity is often a precursor of geomagnetic activity due to changes in the solar wind. In addition, some geomagnetic activity appears to be a function of the moon's position relative to the planets. Clear data has been published in Chapter four of my book *The Body Magnetic*. A similar analysis could be done for the thirteen singular times analyzed in this report.

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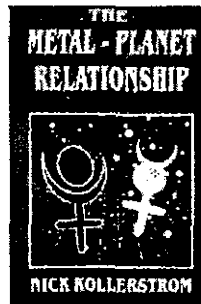
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RELATED RESEARCH TITLES :

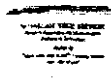


Expanding on the research of Frau L. Kolisko, Nick Kollerstrom has compiled quite a lot of useful information about the living relationship of the planets with the Metals ancient Alchemy associated with those planets.

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SUNSPOTS

Their Effect



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TRANSMUTATIONS OF NUCLEAR WASTE

BY ROBERT A. NELSON

(Rex Research: P.O. Box 19250, Jean, NV 89019 USA)

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The disposition of nuclear waste is one of the most serious technical challenges facing humanity. Long-term storage is not acceptable, yet it is all that we can do with the mess at this time. Meanwhile, many physicists are developing methods to render nuclear waste inactive by various forms of transmutation, the conversion of one element into another.

The rapid transmutation of radioactive elements to stable daughter elements can be accomplished in several ways. The first such method was proposed by Dr. Radha Roy (Physics Dept, Arizona State Univ.) in 1979. He used a linear accelerator to generate x-rays that knocked nuclei from the target elements (Cesium-137 and Strontium-90), resulting in short-lived isotopes. His work received notice in the New York Times in 1982 (April 6 & 13). Only 20 years later, the Los Alamos National Laboratory is developing a project for "Accelerator Transmutation of Waste". A prototype plant will be constructed within five years. Two US Patents have been granted for the transmutation of nuclear waste with thermal neutron flux: #5,160,696 and #4,721,596 to Charles Bowman and Richard Marriott, et al., respectively.

Scientists at Europe's CERN facility also are experimenting with "sub-critical" nuclear reactions (they cease when not being triggered by a linear accelerator) that curtail radioactivity. The proposed European system has been named "Energy Amplifier" by Carlo Rubbia, the Nobel Prize winning physicist who designed it. The CERN website (www.cern.ch/CERN/Announcements/1994/EnergyAmplifier.html) offers this explanation for their efforts:

Intense linear accelerators would allow transmutation of long-lived nuclear waste which rapidly decays to become harmless or alternatively provide the beam which drives the Energy Amplifier - a failsafe form of nuclear reactor using relatively innocuous thorium as its fuel.

The CERN Energy Amplifier would work by inserting tubes of radioactive isotopes into a block of lead. Protons fired into the lead by a linear accelerator would generate high-energy neutrons that would fission the target waste. When the neutrons pass through the resonant energy levels of the target isotopes, they trigger transmutation reactions. The molten lead also would serve to cool the system by its passage through a heat exchanger, and the waste heat could be used to generate electricity. The corrosive lead will be bubbled with oxygen to allow the formation of a protective coat of oxide on the reactor walls. The system has been criticized as too complex, and to date the researchers have only performed simulations and conducted a few experiments on isolated aspects of the system. For example, the CERN scientists have transmuted Technetium-99 in a lead block.

The Americans and Europeans refuse to cooperate on the project; each group claims the other has copied their ideas. Fortunately, there are several other, simpler ways to solve the problem.

Soon after Pons and Fleischman announced the discovery of Cold Fusion (CF) in 1989, researchers began to announce the anomalous production of elements, beginning with helium and tritium and continuing into the heavy atoms. By 1995, about 120 papers had reported the CF production of tritium in experiments with palladium. During the same period, several scientists developed applications of CF for the remediation of nuclear waste.

In the early 1990's, physicist Ken Shoulders received five patents for his discovery of the High Density Charge Cluster (HDCC), "a relatively discrete, self-contained, negatively charged, high density state of matter... [a bundle of electrons that] appears to be produced by the application of a high electrical field between a cathode and an anode" (i.e., 2-10 kv at the tip of a sharply pointed electrode). It can also be described as "a spherical monopole oscillator". Shoulders

has given it the name "Electrum Validum" (EV), meaning "strong electron", from the Greek "elektron" (electronic charge) and the Latin "valere" (to be strong, having power to unite). Shoulders also invented a method of Plasma-Injected Transmutation for the remediation of nuclear waste by EVs. He has demonstrated the complete elimination of radioactivity in high-level nuclear material. (1-4)

EVs apparently function as a collective accelerator with sufficient energy to inject a large group of nuclei into a target and promote nuclear cluster reactions. The composition of EVs allows for the inclusion of some 105 nuclides. Ions can be added to EVs until the net charge becomes positive. Such EVs are called Nuclide-EVs (NEVs). Shoulders states:

The NEV acts as an ultra-massive, negative ion with high charge-to-mass ratio. This provides the function of a simple nuclear accelerator... Such nuclear reactions are fundamentally an event involving large numbers and not one of widely isolated events working at an atomic level...

Shoulders offers an ad hoc explanation of these results as being "due largely to a nuclear cluster reaction having an unknown form of coherence."

Other researchers (Rod Neal, Stan Gleeson, "The Cincinatti Group", William Barker, etc.) also filed for patents on similar applications. The Neal-Gleeson Process has been shown to stabilize naturally radioactive solutions of thorium and uranium compounds up to 70% within a few hours in an electrochemical reactor. Thorium can be fissioned into mercury and neon. Valve metals (whose oxides emit electrons) can be excited to produce galvano-luminescence in aqueous solution. When the charge gradient exceeds a critical threshold (i.e., 1 million volts), sparks are produced in the form of charge clusters that are believed to be the active mechanism in this method of transmutation.

In their reports of the experimental results, Neal and Gleeson, et al., noted:

Because there is a close agreement between the reduction in thorium and the reduction of radioactivity of the tho-

rium daughter products, it is assumed that the Neal-Gleeson Process has about the same capability to change both thorium nuclei and the nuclei of the daughter products into other elements which are not radioactive...

A process which can cause the higher atomic number elements to be split into smaller elements appears to be a desirable method by which certain radioactive elements can be handled. It is highly desirable to be able to select process-control parameters so that only stable daughter nuclei of the parent elements are produced. In this way, the radioactivity of today's highly radioactive slurries can be ameliorated.

Australian inventor Yull Brown developed a novel method of electrolyzing water to produce a compressed stoichiometric mixture of hydrogen and oxygen ions (popularly known as "Brown's gas") that is burned in a 2:1 ration. Since the early 1980s, Yull Brown claimed to be able to transmute radioactive material into inert forms by fusing it in the flame produced by his hyfuel. His patents mention that "The invention also relates to atomic welding..." (USP 4,014,777 and 4,081,656).

Yull Brown's first successful experiment with Co60 radionuclides reduced the activity by about 50% in 10 minutes. The process was replicated by the Baotou Nuclear Institute (China) in 1991.

In a demonstration witnessed by former US Congressman Berkeley Bedell, the radioactivity of Americium was quickly reduced by 2500% with Brown's Gas torch. The Geiger counter reading registered 16,000 curies/minute before, and less than 100 curies/minute afterwards. Congressman Bedell said:

It has been my good pleasure to witness experiments done by Prof. Yull Brown in which it appeared to me that he significantly reduced the radioactivity in several nuclear materials. Under the circumstances, I believe it is very important for our federal government to completely investigate Dr. Yull Brown's accomplishments in this area.

If the US government is completely investigating Brown's Gas, it is doing so in complete secrecy.

In August 1992, Yull Brown made another demonstration before several members of the Department of Energy and Hon. Dan Haley at the request of Congressman Bedell. The Geiger counter reading from Co60 was reduced to 0.04% of the original level.

Another demonstration was conducted for a group of Japanese nuclear scientists, at which time Co60 was reduced from 24,000 mR/hr to 12,000 mR/hr with one brief treatment. (5-7)

Paul Brown (Nuclear Solutions, Aurora CO) has developed a novel method to remediate nuclear waste by photonuclear reaction with gamma rays. The technology utilizes principles of physics $\frac{3}{4}$ giant dipole resonance $\frac{3}{4}$ that have been overlooked in their possible application in treatment of nuclear waste. Brown states:

Photonuclear reactions induced by gamma ray absorption by the nucleus, do not suffer the shortcomings of neutron reactions. Simply stated, the process is gamma irradiation with energies greater than the binding energy of the neutron to the nucleus. That is, a gamma photon of an energy equal to or greater than the binding energy which comes close to the nucleus is absorbed through giant dipole resonance resulting in the emission of a neutron. This well-known nuclear reaction has dramatic application to waste remediation...

The neutrons produced by the (j,h) processing may in turn be used for neutron transmutation by the processes... For many fission products the neutron capture cross sections in a thermal spectrum can give substantial transmutation rates...

Brown has proposed another application of giant dipole resonance in a theoretical "Photon Reactor" that would produce power by burning nuclear waste:

A linear accelerator, preferably of the monochromatic type, accelerates electrons which are directed onto a high Z target such as tungsten to generate gamma rays about 9 MeV, which are di-

rected onto the fuel material such as U-238 which results in the (g, γ) reaction, thus releasing about 200 MeV. A reactor built according to this principle requiring an accelerator driven by 1 MeV will develop about 20 MW of power. The reaction is not self-sustaining and stops when the beam is turned off. This accelerator driven reactor may be used to burn up spent fuel from fission reactors, if simply operated at 10 MeV. The photo-fission results in typical spent fuel waste products such as Cs137 and Sr90, which undergo photodisintegration by the (g, γ) resulting in short-lived or stable products. Chemical separation of the spent fuel isotopes is not necessary... (8)

Ronald Brightson (Clustron Sciences) has presented theoretical and experimental evidence for the validity of his own "Nucleon Cluster Model" (NCM), which predicts that a relatively low-energy photon can promote a nuclear reaction under certain specific conditions. Brightson analyzed the periodicities and systematics of atomic numbers and masses and deduced that all b-stable nuclides are composed of deuterons (NP clusters), tritons (NPN), and He3 (PNP) nuclei. His patent application includes a method of remediating nuclear waste by the induction of fission in the radioactive isotopes. The imposition of an external magnetic field in resonance with the magnetic moment of a particular nucleon cluster (NP, NPN, PNP) can excite the select cluster (without disturbing other clusters in the target) to burst from the nucleus and perform a transmutation to daughter products of smaller mass and greater stability.

A catalytic process for transmutative remediation of nuclear waste was invented by Jack Keller in 1993.

Roberto Monti (Burns Development Ltd.) announced a method of transmutation to neutralize radioactive material at a congress on low-energy transmutation (ICCF-5 in Monaco) in 1996. He utilized ignition methods such as those developed by Joe Champion. When Monti applied the treatment to nuclides, the radioactivity was greatly reduced after the ignition.

In their analysis of the "energy gain and nuclear transmutation by low energy p- or d-reactions in metal

lattices", Heinrich Hora, George Miley, and J. Kelly offered hope for the transmutation of nuclear waste and plutonium:

One can actively incorporate nuclides into the surface area of the active metals or nearby. These additional nuclides can then be subject to low-energy nuclear transmutation...

One application of the mentioned transmutation is the long-lived nuclear waste from nuclear fission reactors... It is an important aim to make plutonium fully extinct by nuclear transmutation into chemically different nuclei... These kinds of nuclear transmutations are indeed possible by using ion beams... of more than 10 MeV per nucleon or spallation processes with up to 10 GeV protons. In view of the very expensive accelerators needed for this purpose, and [because] the ion currents are very small, there is no economic possibility in sight from this method. The invention described in this (Clean Energy Technology) patent [for] the low-energy transmutation by protons provides a low cost method for converting the long-lived waste nuclides and plutonium into harmless non-radioactive elements. (9)

Beginning in 1958, Russian geophysicist Dr. Georgiy S. Rabzi developed methods of transmutation that combined geo-electric and artificial fields and temperature control to direct transmutation in solids and liquids. For example, a 99.5% Pb was treated at 650°C to yield up to 3% Ag, plus Cd and Ge (15 March 1994). No radioactivity was observed in any of the experiments. At the ICCF-5 meeting, Dr Rabzi claimed that his "natural cold fission" is a safe method with which to stabilize nuclear waste.

Numerous reports in the literature of physics describe deviations (from 0.1 to 5%) from the standard constant decay rates of natural radioactivity, some by extra-nuclear influences (including the human mind). Physicists Elizabeth Rauscher, Glen Rein, and associates have investigated the interactions of Co60 with non-Hertzian energies such as the scalar fields generated by the "Smith Coil" (a Caduceus-wound coil in-

vented by Canadian engineer Wilbur B. Smith in the 1960s). When energized (3 mA/5 W), The non-inductive Smith Coil (8.2 ohms) reduced the background radiation by 97% (from 0.5 mR/hr to 0.0015 mR/hr). Yet when applied to Co60, the radioactivity increased from 150 to 250 mR/hr! (10)

A few other exotic possibilities may exist for the transmutation of nuclear waste, such as the radionic transmutations demonstrated by the amazing DeLa-Warr Camera. Tom Beardon and others have recommended the use of scalar interferometry to withdraw energy from the nucleus in a gentle manner, or by outright dematerialization. (11)

Unfortunately, radioactivity also can be increased by simple means. Alois Gaschler obtained a British patent in 1925 for the enrichment of uranium by a treatment with several kilowatts of direct current:

The behavior of uranium and thorium and their salts in the electric arc and in the glow discharge has been examined. In no case could there be observed an alteration in the radioactivity or in the chemical activity. A perceptible transmutation effect was, however, unexpectedly found when strong rushes of momentary high-tension currents were sent through a narrow fused quartz tube provided with tungsten electrodes and containing mercury and uranium oxide. The tube was fixed vertically in a stand, so that the mercury filled the lower part of the tube and one tungsten electrode was completely covered by it. On the surface of the mercury was a relatively thin coating of uranium oxide which had been carefully freed from radioactive by-products, especially from uranium-X, before it was introduced into the quartz tube. The sparking distance between the tungsten electrode and the mercury-uranium oxide electrode was about 15 cm. The intensity of the electric discharge varied between 0.3 and 0.4 amps.

Under the influence of repeated electric discharges during about 30 hours, relatively strong and increasing radioactivity [b and l rays]... showed itself... The b and l ray activity... varied between 1.4 and 20 times the radioactivity of an equally large

amount of uranium oxide in equilibrium with its decay products, and increased proportionally to the energy applied and to the time.

One obtains an even greater proportion of uranium X if one makes... the electric discharges pass within a thick-sided quartz or porcelain vessel between a tungsten point and mercury covered with a thin coat of vaseline and uranium oxide. This coating possesses such a high electric resistance that, even when applying the highest tensions which can be obtained, one is obliged to diminish greatly the sparking distance in order to obtain a discharge. This proceeding offers the advantage that the energy is concentrated into a very small space. Consequently one can show, after half an hour's work, the production of relatively large quantities of uranium X.

The production of uranium X considerably in excess of that produced by spontaneous decay is to be explained only by the fact that, under the influence of the electric force, an acceleration of the radioactive transmutation of uranium takes place.

Thomas H. Moray developed a method in the 1950s to enrich uranium by high-energy bombardment. He proceeded by bombarding the ore in a chemical solution with x-rays (up to 24 MeV). The average ore contained 0.23% uranium oxide. After irradiation, the ore yielded from 7-75% uranium oxide! In 1953 the MRI proposed that the Atomic Energy Commission investigate the "aging" of atomic ores by a "breeding type reaction with high-energy particles or x-rays in the presence of a proper environment." The AEC declined to grant a contract.

Fortunately, these technologies are dormant. Meanwhile, it is imperative that we develop every possible pathway to the deactivation of nuclear waste and weapons.

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THE BORDERLAND EXPERIMENTER:

THE PIEZOELECTRICITY OF THE TRINITY PACS

BY JAMES BORGES

The Trinity Pac is a research tool that has been around the Borderlands for a while. It was one of the outgrowths of the wonderful research into lithium by Haroldine, one of our own Borderland Scientists. The Trinity Pac contains three lithium compounds (Amblygonite, Pala Pink Tourmaline & Lepidolite) and three sodium compounds blended together in a specific ratio. These materials are in a 1 3/4' square lavender color fabric with gold stitching which resembles a little pillow.

This experiment was set up to establish the fact that the Trinity Pac, by virtue of the Tourmaline contained in it, would give off a minute charge or current when mechanical pressure was applied to it. This electric phenomenon from crystals is called piezoelectricity. Pierre and Jacques Curie discovered piezoelectricity in 1880. It was named Piezoelectricity (from the Greek, piezein, "to press") to distinguish it from the other forms of electricity being studied at the time. It has been defined as the appearance of an electrical potential across certain faces of a crystal when it is subjected to mechanical pressure. (1) The effect is explained by the displacement of ions in crystals that have a nonsymmetrical unit cell, the simplest polyhedron that makes up a crystal structure when the crystal is compressed, the ions in each unit cell are displaced, causing the electric polarization of the unit cell. Because of the regularity of crystalline structure, these effects accumulate; causing the appearance of an electrical potential difference between certain faces of the crystal. (2) The key to producing the current is the change in the shape of the crystal. A pressure will not effect a sustained flow of electrons. Although it appears electricity can be squeezed out of a crystal, that is not the case. When you alternately apply and release pressure on a piezoelectric crystal, during the pressure changes on the structures a small amount of electron flow is created. So by applying cyclic pressure, a current may be generated. (3)

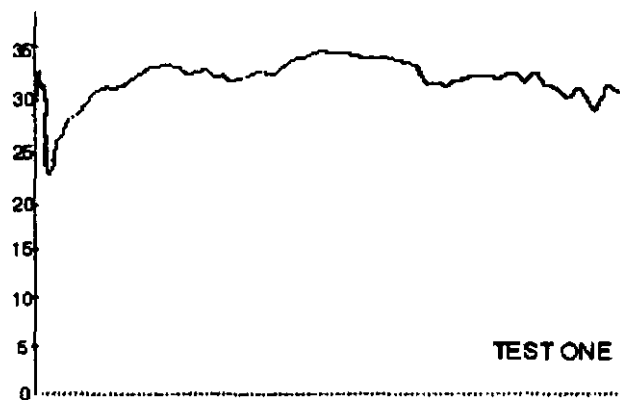
Current is a 'flow' defined as the rate of a quantity of charge passing a given point per unit of time

$$I = dQ/dt$$

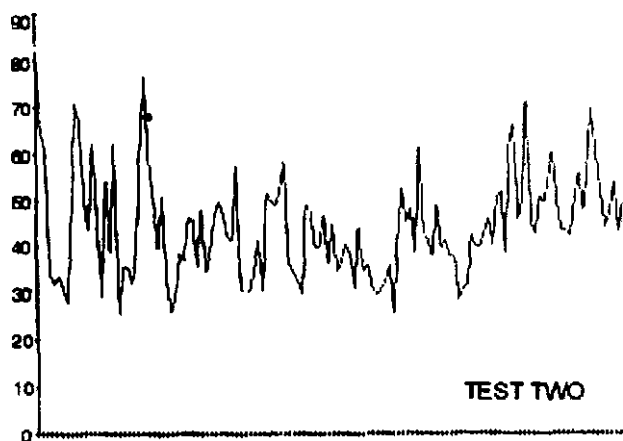
Where dQ is the derivative of charge with respect to time. (4)

To measure voltage changes we used a Radio Shack Digital Multi-meter with a Computer Interface. The electrodes were firmly held by the test subject to measure the naturally occurring voltage in the human body. A reading was then made to test the change in voltage when the electrodes were held to the Trinity Pac and the fingertips, in circuit. The voltage itself is not so important as is the graphic representations that show the fluctuation in electric charge.

The voltage will vary from test to test, caused by the various conditions of the body's conductivity due to chemical changes and also atmospheric changes in air pressure. Thus, it is important to run both tests in the same time frame.



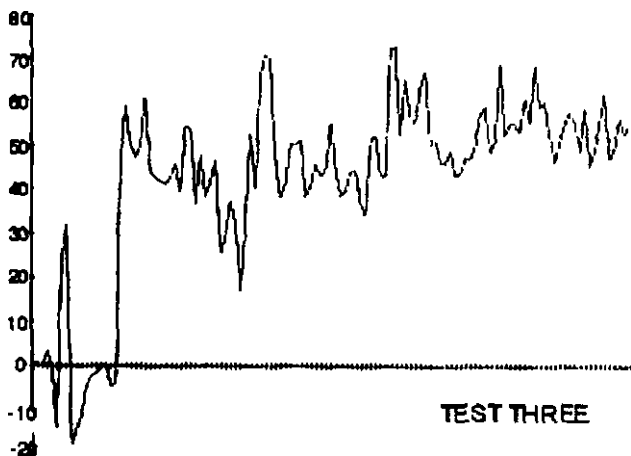
During the first test the natural level of voltage in the body was averaging about 30 mV with slight variation and a gradual decline. This pattern is typical of measurements taken of the natural body electricity; it seems to find its level and slowly decline as the nerves become less sensitive due to the continually applied pressure to the electrodes. The fingers get an indentation and become numb.



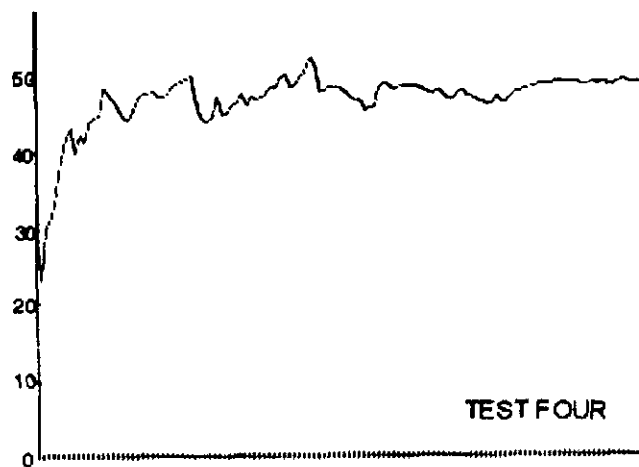
In the second test, the Trinity Pac was measured. The crystals were ground together as the electrodes were firmly held by the finger tips. The Trinity Pac displayed a surprising jump in the body's voltage when the crystals changed shape under the pressure and released a charge. A jump from 30 mV to 70 mV was registered on the first two spikes. The measurements showed that a few seconds after the pressure is removed the voltage returns to around 30 mV.

The next observations were quite by accident, a measurement of the natural level of the body's voltage was taken just after a measurement of the Trinity Pac. This occurred approximately five minutes after the first test. Since both measurements were within in the same time frame there was no time for any significant changes in body chemistry. I expected the voltage to be similar, what I found was that the natural level of the body's voltage had increased.

In the third test the Trinity Pac shows it's usual pat-



tern of tall spikes caused by the released charges, followed by the dips, as the random action of the grinding crystals does not allow a constant pressure or pulse. The dips averaged around 45 mV which was 10-15 mV higher than the preceding observation. There appears to be an overall body change from just several exposures to the piezoelectric effect.



A measurement was then taken of the body's natural level of voltage in the fourth test. It followed the typical level pattern, but the voltage was averaging 45 mV. The natural level of voltage had increased.

We have show that the Trinity Pac is in fact a bundle of energy, a source of electric currents. With this fact established, the questions can be raised that will lead to further research. What is the curious effect of this tiny charge of piezoelectricity? Does this piezoelectric current balance out magnetic disturbances caused by geomagnetic activity caused by sunspots and various other causes? Does the piezoelectric charge travel to the muscular system and cause a contraction that may release tension? What are the possibilities if the Trinity Pac is used in conjunction with Yoga or Huna energy work, with attention to rhythmic breath and the various plexus of the nervous system?

Personal Observations

From this data it seems that it is safe to say the Trinity Pac when pulsed releases electricity into the fingertips. The fingertips are the key; they interact on a higher level with subtle electricity. Ruth Drown and De La Warr both relied heavily on the fingertips as

instruments. Indeed many nerves are located in the hands, they being one of the primary centers of the sense of touch. A kirlian picture is worth a thousand words when discussing the electrical conductivity of the fingertips. The dendritic spray of vril can easily be seen, showing the fingertips to be a major intersection with finer forces and subtle electricity. The study of dowsing has much information on the role of the hands and their relationship with the earth's subtle forces.



The idea to squeeze the Trinity Pac was not so obvious as it would seem. It was upon discovering that Tourmaline possessed piezoelectricity when under pressure that I decided to squeeze the Trinity Pac.

I do a great deal of walking during the day; in between destinations I would grind the crystals together. This soon became a habit and I would unconsciously squeeze and grind the bag, I observed one day while I was particularly stressed that I would grind harder when I was tense. A natural response to tension/anxiety is contraction. What I experienced when I really gave the bag a good squeeze with the fingers of both hands, felt like a transformation of the tension in my body, an instant polarization resulting in the dissipation of the tension. It put the fight back in my step that stressful day and was the beginning of my serious research into the effects of piezoelectricity and the human consciousness and organism.

Further Experiments for Observations

A few other experiments with crystals will show piezoelectricity. A dry sugar cube crushed with a pair of pliers will spark in a dark room. The light produced when mechanical shock, friction, or pressure is applied to a crystal is called Triboluminescence. It can also be observed if you have hand sized milky quartz and rub it back and forth on the face of another quartz. You can also knock together two milky quartz pebbles of landscape rocks. An orange-yellow light can be seen inside the crystal. You will also notice a metallic smell. (3)

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THE TRINITY PAC



The *Trinity Pac* contains three lithium compounds (Amblygonite, Pala Pink Tourmaline & Lepidolite) and three sodium compounds blended in a specific ratio. These materials are in a 1 3/4" square lavender color fabric with gold stitching which resembles a little pillow. The energy frequency of *Trinity Pacs* when worn, often allows more complete perception than usual - almost as if one sees into the heart of things, instantaneously. *Trinity Pacs* release and erase the negative memory programming stored in the cells of the body as uncompleted emotional trauma. They also have a positive transformative effect on noxious electrical pollution from computers and microwaves in the environment. Two pacs are included for experiments with polarity or to share.

The Trinity Pac.....#E0011..\$24.95

THE LANGUAGE OF RADIONIC RATES

BY INA MANZOOR, M. RAD. A.

To the 'Uninitiated' onlooker, rates are just ordinary sets of figures. Radionic practitioners who know better, use them as diagnostic and treatment aids (tools?), but don't look beyond their basic function.

I stumbled across the deeper meaning of rates quite by accident. Although, come to think of it, is anything an accident, or coincidence in life? "A coincidence is an incidence co-ordinated by god". I believe that I have had too many 'engineered' coincidences in my life to believe otherwise.

It is quite a number of years back that I started making rates-well over 15 years I think- and I still remember how wide eyed I became when the mystery of rates opened up to me. Even to this day I never fail to be amazed at the teaching that is revealed via the language of radionic rates.

One of my first insights came through the rate:

Alignment of subtle bodies
with physical bodies- 7901.55

I will now list a number of rates which provide the background to the reasoning that gave me the insight:

Semicircular ducts in the ear	7910.
Emotional maturity	7910.8
Neck	910.75
Right atrium (heart)	55

At the time I was treating someone who kept having dizzy turns. The treatment required was to align the subtle bodies with the physical body. The patient was immature with regard to emotional relationships and felt easily "hard done by" and therefore treatment on the psychological side was also very indicated.

The semicircular canals are the organ of balance the ear. When you draw a line from ear to ear and a line down from each ear to form a triangle within the heart (the point being in the right atrium=55), you get the rate 7910.55. This shows that these three points of the triangle must be points of anchorage for

these subtle bodies which enable them to be firmly anchored/aligned with the physical. Somehow I also remembered that some years ago I had a phase in which, when I did some deep meditation, I felt dizzy and almost sick, and misaligned between my head and heart. (it does pay to be observant and file experiences in your memory banks for future reference!)

At this point I thought, what is or has to be anchored in the body for the person to remain incarnated? The obvious answer was: the monad. Therefore I reasoned, theoretically, the monad should be in the right atrium, if the rate 7910.55 alignment of subtle body/physical body were to be correct. It took me some time to research this, but eventually I had the proof that, yes, the monad was actually anchored in the right atrium, in the Bundle of His!

The rate of neck; 910.75 having such a similar configuration, also pointed in the direction of physical problems (tension/pain in the upper spine/neck/shoulder area) developing due to the misalignment of the subtle to the physical - which, by the way, this particular patient also had; the neck problem disappeared when all else had been resolved.

Continuing the rate pattern of 7910., I was astonished to find that this was contained in the homeopathic rate for Zincum valerianum MM:57910.772 (for research purposes, I produced a separate rate for each potency).

The rate 57910.772 is made up of various rates, i.e.

57	= Subconscious
7910.	= semi-circular ducts, and contained in alignment of subtle/physical body
10.772	= psychic trauma
57910.	= autointoxication

Looking this remedy up in the Materia Medica, it says that it is a remedy for violent neuralgic headaches, hysteria, angina pectoris, epilepsy, hysterical heartpain, severe pain in the neck and spine etc, etc. I would be interesting to hear if any of our practitioners who are particularly interested in homeopathy and

who would be willing to experiment, found to what extent this potency addresses the psychic trauma, auto-intoxication and other problems. This potency came into being some years ago when I treated a lady who had been on tranquilizers for years, had psychic trauma and was certainly was not on a healthy diet... mental disease also has its origin in the gut...

This brings me onto another set of rates:

Intestinal mucosa	810.47
Mental body	1047
Determination	47471
Courage	7477
Spine	4479
Spinal Alignment	59810.

'47' is found as a link in all the above rates except in the spinal alignment, where the link is 810. with the intestinal mucosa), therefore there must be some connection in the interpretation of these rates: healthy body- healthy mind (keep yourself free of toxins, i.e. your intestines clean, and your mental boy will also be healthy). When you are mentally clear and positive, you have determination and courage, your spine is erect and strong! And Parmahansa Yogananda said that "the spine and brain are the alter of God, that's where the electricity of God flows down into the nervous system, into the world; if you concentrate in the spine, you will behold the Maker."

As a last example of what rates can teach us I give the following rate:

wish to punish father 45547

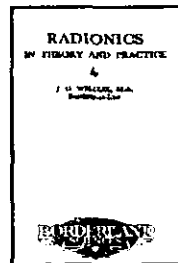
This rate contains the rate for the pituitary; 547, and 55; the rate for the right atrium (where the monad is anchored), as well as the number 4, which represents orderly creation. Since the rate is indicative of a negative condition, it shows that this wish harms the whole being through the monad (spiritual origin) and the pituitary, the master gland of the physical body, the circulatory and hormonal system. It makes sense that if you hate your father so much who gave you life and enabled you to incarnate, that there have to be consequences. Therefore, the sooner one learns to

overcome such feelings the better!

What has become apparent from recent rate-making workshops is that by making recognition rates for patients- which of course keep changing according to the state the patient is in-one can perfectly sum up the current "state of affairs"! Not so long ago, I checked up on a puzzling case of sudden, severe inflammatory illness and I got the recognition rate of 44410. When I looked at this rate, I remembered that the very basic rate for inflammation was 4. This 4 in repetition meant that there was inflammation on all three planes; mental, emotional, spiritual, i.e. a cleansing of body, mind, and soul was taking place in order that the spirit may be able to express itself through the flesh, i.e. this patient (10.=manifestation)

With these few examples I have tried to stimulate tired(and perhaps sometimes bored) radionic brains into making comparisons and deductions, drawing conclusions, letting the intuition reign-it pays!

RADIONIC RESEARCH :



RADIONICS IN THEORY AND PRACTICE

BY J.O. WILCOX, M.A.

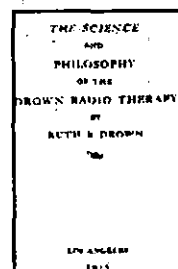
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TRANSMUTATION THROUGH THE WAVE FIELD

BY RHETTA JACOBSON BAUMGARTNER

(JBR, Nov-Dec 1991)

Nature does not transmute by chemical combination and reaction; but by altering the wave field. Energy is flowing into and out of the atom constantly from its wave field.

In this article I will paint a picture of the basic wave field as a series of vortices. The atom is sustained through the vortex which can be considered to function on a fourth dimensional level.

The key to transmutation is to establish contact with the vortex, instead of with the atom's manifestation on a physical level; and, then change the structure of the atom before it is released and frozen into the physical level. Since the atom can only express what is flowing into it from the vortex, if we change the vortex, then the atom naturally relates to it in a different manner. If there are various interchanges of polarity patterns manipulated in the vortex, then the resulting relationship would be a change in electromagnetic lines of force which stem from the atom.

All spiral movements in Nature have individual characteristics. Through guided stimulation vortex systems can be changed and transmuted into other systems. So-called substance can therefore be transmuted into other substance; or one energy expression can be changed into another energy expression.

The laws of the spiral are the keys to understanding of Creation, the blueprint of the Universe. The spiral vortex is the road to Paradise!

Dr. Walter Russell said that the elements have characteristics according to what position they are found within a wave. We must have a picture of the wave to dissect so we can define some positions of certain characteristics.

Let us review some of Dr. Russell's views on matter. Russell says substance (elements), all particles, mass, atoms, etc. is motion only. Motion in two ways, simultaneously! Motion is caused by the division of an equilibrium, and its extension is in two directions to cre-

ate the two opposite conditions of pressure necessary to make motion imperative.

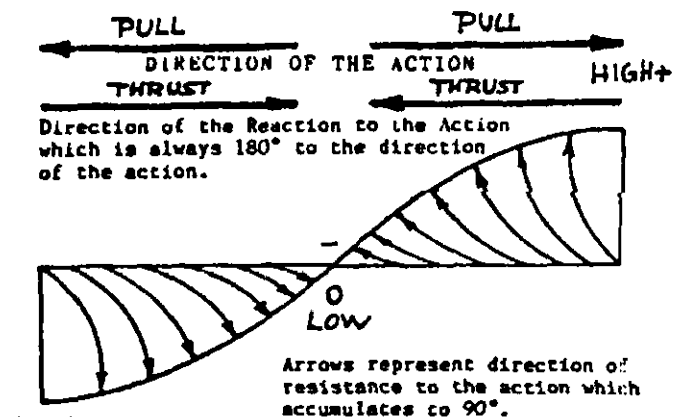
Visualize any point in space to represent equilibrium. Two directions of motion does not mean to the left and right of this point; but, rather a direction pushing outward as a spherical shell around the point, and a direction pulling inward toward the center (see picture 1).

The names of these two directions of motion is centrifugal (that which radiates outward) and centripetal (that which contracts or sucks inward).

Each of these motions resists the actions of the other and in so doing gives the two opposing forces the repetitive effect which makes this Universe a continuous cyclic universe. The combined triad effect of the two opposing oscillations and RESISTANCE is registered in waves of varying dimensions.

The resistance component of this triad causes curvature of the two opposing motions; therefore, there is no "straight line" direction of movement of energy in this Universe.

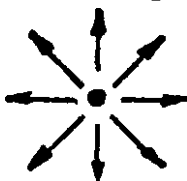
The result of resistance of the inward pulling



Picture 2

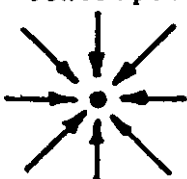
W.P.B.

Centrifugal



Picture 1

Centripetal



(centripetal) suction and the outward pushing (centrifugal) pressure is to deflect the intended direction from a direct or straight line to a curved or spiral line, which is the wave.

Let's trace the action of force, motion and resistance. An action takes place in space which expresses itself in pulling inward from within toward a nuclear center (see picture 2)

The direction of the thrust of resistance to the positive or plus action, and an equal thrust of resistance to its negative or minus reaction to that action is shown in the above figure by the arrows.

Along the sequence of waves so formed all of the systems within which matter is formed are centered. The wave is the basis of all motion.

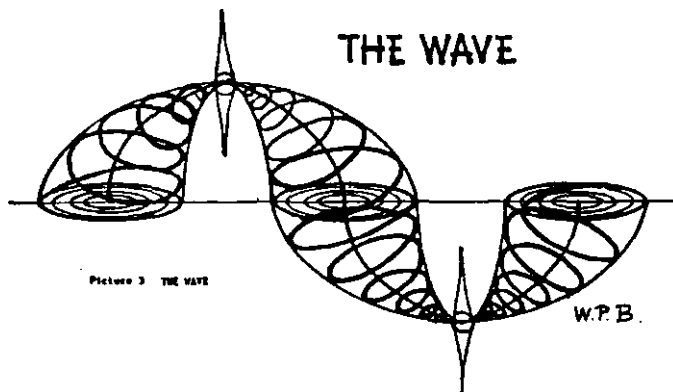
The atom is constructed along the wave. Systems and striations of atomic, solar and galaxy systems are strung along waves like discs in the manner described in the article "Understanding the Continuous Universe", BSRF Journal, Sept.-Oct. 1990

The inward pulling force proceeds to converge on a common center, but because of resistance accelerates toward the center in a tightening screw-like movement toward an apex of a cone. The outward pushing force proceeds to radiate outward, but is also on a

gradual expanding cone-shaped course toward expanding cone-shaped course toward the base of a cone (see picture 4).

Remember please, the elements of matter are all of the same substance in varying states of motion. Motion can change in 18 different ways, which are named by Russell "The Dimensions of Matter". The changing of these dimensions is what changes form and character of matter. These are the dimensions which, when known and measured, will make man able to evolve or devolve, transmute or synthesize the elements at will.

There are a few important laws of these dimensions which are good to remember at this point. 1. If any



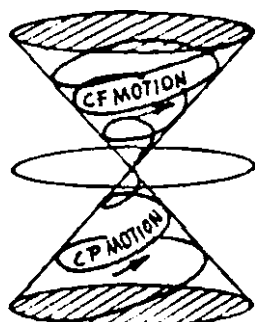
Picture 3 THE WAVE

W.P.B.

one dimension is altered, then simultaneously all the others adapt themselves and are altered also. 2. Dimensions have two opposite, extreme conditions. A plus or positive condition where it is increasing in that Dimension; and a minus or negative condition where it is decreasing. 3. The opposite condition of a Dimension is never completely gone, both conditions are always present; only one condition is in preponderance of dominant over the other.

Let us take an example of manipulation of just a few of these Dimensions: A substance may have a high pressure, a charging potential, and a decreasing density; or, it can be have a low pressure, or a negative discharging potential, and an decreasing density or rarification. Just from these changes in a few dimensions we can recognize different types of substances. For instance, solids fit the first characteristics and gases the sec-

<u>DIMENSIONS</u>	<u>OPPOSITE CONDITIONS</u>
Length	Long-Short
Breadth	Wide-Narrow
Thickness	Thick-Thin
Duration or Time	Eons-Instant
Sex	Male-Female
Pressure	Positive Pressure-Vacuum
Potential	Charge-Discharge
Temperature	Hot-Cold
Ionization	Integrating-Disintegrating
Crystallization	Melting-Freezing
Valence	Attraction-Repulsion
Axial Rotation	Fast-Slow
Orbital Revolution	Proximate-Distant
Mass	Dense-Nebulous
Color	Light-Dark
Plane	Appearance-Disappearance
Tone	High Frequency-Low Frequency
Ecliptic	Contracting-Extending



Picture 4

W.P.B.

group.

Now, let's describe some characteristics of matter which occur along the wave and show how the positions or locations on the wave influence those characteristics.

The characteristics on the left are effects of centripetal motion. The characteristics on the right are the effects of centrifugal motion. Now let's place these on a wave (see picture 5).

Arrows indicate increase of characteristic. It can be seen that every effect in the left column is accompanied by closer proximity, while every effect in the right column is accompanied by greater separation.

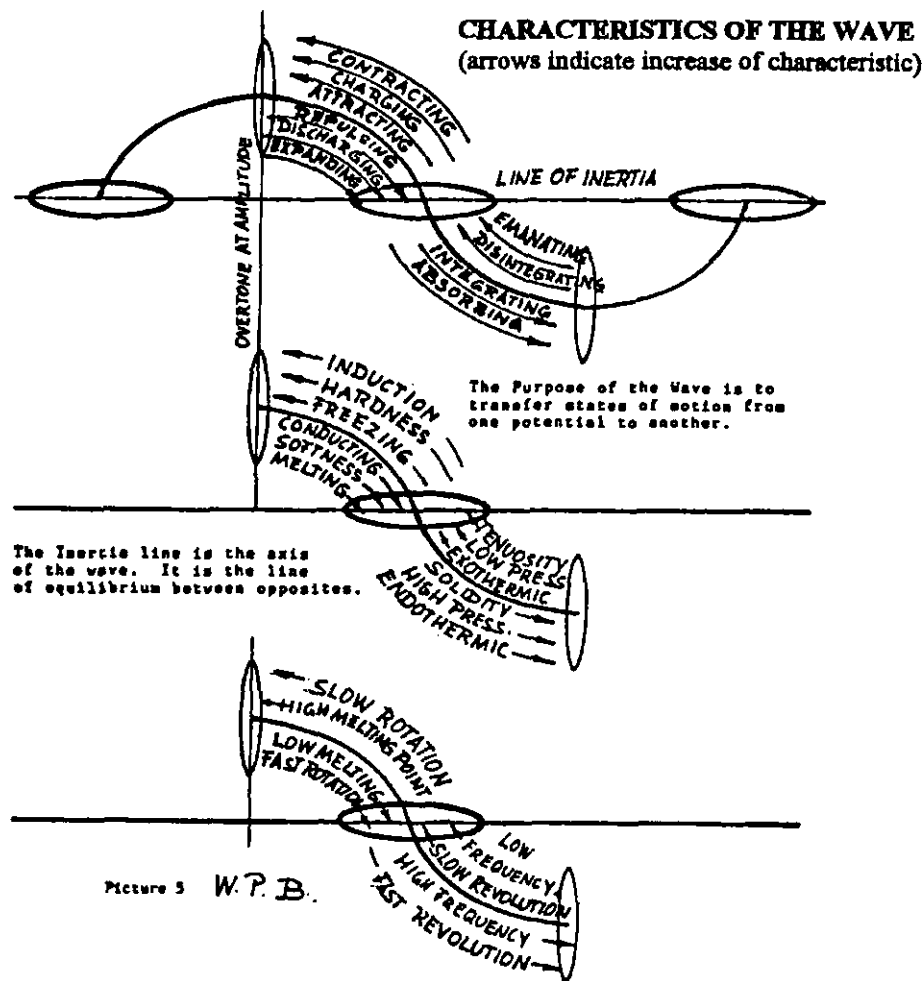
All systems whose spirals are preponderantly closing spirals are positive systems. All systems whose spirals are preponderantly opening systems are negative systems.

All systems of preponderantly increasing potential are positive systems. All systems of preponderantly lowering potential are negative systems.

All preponderantly integrating systems are positive systems. All preponderantly disintegrating systems are negative systems.

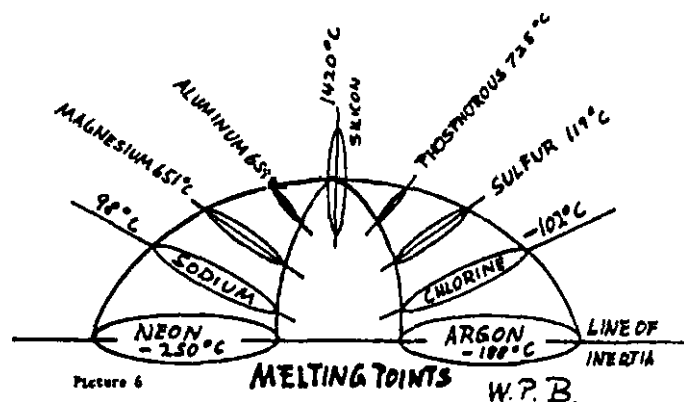
In any wave the induction current seeks the high pressure at the apex of its cones of energy and the conductive currents seek the low pressure at its bases. The nearer to the axis and to the apex of the cone, the greater the density, pressure, potential, power-time and all EFFECTS of electro-positive preponderance. The nearer the base of the cone the greater the tenuity, tendency to ionize, the lower the pressure and potential and all EFFECT of electro-negative preponderance.

Therefore, if we look at Silicon's position along the wave (see picture 6) we see silicon at amplitude position with the progression of the other elements evol-



ing and devolving along the wave. Sodium will not always remain a sodium particle. As it increases its potential charge, its pressure, its hardness, its melting point, etc., it will transmute toward silicon.

Transmutation can be in two ways: Fusion or Fission. Here we do not mean the processes or methods



Drawings by Walter P. Baumgartner

CHARACTERISTICS	DIMENSION TO WHICH THEY BELONG
Attracting-Repulsing	Valence
Charging-Discharge	Potential
Integrating-Disintegrating	Ionization
Absorbing-Emanating	Temperature
Contracting-Expanding	Length, Breadth, Thickness
Freezing-Melting	Crystallization
Solidity-Tenuousity	Mass
Hardness-Softness	Crystallization
High Pressure-Low Pressure	Pressure
Induction-Conduction	Potential
Endothermic-Exothermic	Temperature
High Melting Point-Low Melting Point	Crystallization
High Frequency-Low Frequency	Tone
Slow Rotation-Fast Rotation	Axial Rotation
Fast, Proximate Orbit-Slow Distant Orbit	Orbital Revolution

described by Science, but Fusion meaning growing in positive potential, accumulating, integrating, etc. - a constructive and generative process; and Fission meaning decaying, lowering potential, disintegrating—a destructive, radiative process.

The works of Walter Russel lay down in explicit details a map of the elements upon the wave. It was Dr. Russel's hope: "A transformed science can avert this danger which man brings upon himself by his own profligacy by rendering all of the coal, oil nitrates and phosphates of the world not worth digging for Man of today, and needless for man of tomorrow.

These things he can do NOW for they are simple in principle and the means of producing them are simple. A generation need not pass without extending the principle of Transmutation to heavy metals, and render the gold which constitutes Man's idea of wealth - of no value other than as a utility.

Every product of Nature in the elements of matter which Nature has produced so meagerly can be produced by man in unlimited quantities with less effort than present day digging. This included iron, copper, manganese, platinum, aluminum, tin, and all other metals.

In your grind stone is aluminum, and in silicon and carbon—the most plentiful elements of earth—are all the metals.

Where copper or iron ore cannot be found silicon can give them to us. If we cannot get supplies of tin or manganese from other parts of the world, silicon will give them to us.

The science of metallurgy must realize that all metals are unbalanced conditions of carbon and silicon. Iron and nickel are unbalanced positive and negative extensions of silicon. We now obtain nickel from other countries. We have an unlimited supply in every

mountain.

Just as sodium and chlorine find balance in their salt, and thus lose their metallic qualities, so do all pairs of metals lose their metallic nature in their salts. A salt in Nature is a balanced pair of elements.

Reciprocative balanced reversals of motion is the only power Nature or Man has ever used. This is the basis of the electric current—the piston of Nature's engines or man's motors and pumps.

Science has heretofore used but one half of Nature's power principle, and has used even that the hard way. The EASY way, and the SIMPLE way, is to use in full the balanced reciprocal reversals of this two-way Universe which are forever taking place between the conditions of gravitation and levitation which motivates this Universe.

ALTERNATIVE SCIENCE

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THE PUNDIT CURMUDGEON

IRRATIONAL STUPIDITY

RELATING TO "VISION" FOR THE BLIND

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Once again irrational stupidity is seemingly being touted as a miraculous development. The guilty party this time is the magazine Popular Science. The writer is admittedly biased against this publication because of the manner it treats many items such as the device which provoked this discussion. However, in a sense this is unfair. It has discussed this item and others in the same manner in which many developments have been and still are being treated by many other publications. This magazine is mentioned in this discussion merely because the writer saw a brief article in it which seems to him to cover a stupid new development without indicating the seemingly more desirable prior art alternatives to it.

This article appears on page 31 of the April 2000 issue of this publication. In a short write-up under the heading "Blind Aid" it discloses a device for providing a blind person with a computerized wonder which enables the user of the device to achieve mental images somewhat vaguely approaching what this person could see if he or she had conventional vision. At first glance it sounds nifty and would seem to be a sort of a panacea.

One can easily reach the opposite conclusion by considering the known "prior art" relative to enabling the blind to have some sort of "quasi" or "almost" vision. The Popular Science article is of little help in the latter regard. It only briefly mentions a prior article in this magazine concerning unidentified "scientists" studying unidentified "implants" in a person's retina without indicating any substantive information about such efforts. It gives no clue as to the fact that there is a known, apparently effective manner of enabling at least many of the blind to have a form of non retinal "vision" involving the "education" of nerve endings in an individual's skin which avoids reliance upon surgery and electronics.

This known method of creating non retinal alternative "vision" is well disclosed in the text "Eyeless Sight"

by Jules Romans. It was first published in France in 1921 under a longer, but similar title. It was published in English by Citadel Press of Secaucus, New Jersey, USA in 1978. The references cited in an introduction to the latter English edition of this text by Leslie Shepard confirm that content of Mr. Roman's text is the opposite of fiction. The status of Mr. Romans as a colossus of the literary world supports the veracity of the content of this text. A Pundit

Curmudgeon column on "Non Retinal Vision" by the writer appeared on page 22 in the first quarter issue of Borderlands in 1994. Presumably this column must have been entered in various indexes or the like so as to be capable of being easily located.

According to the Popular Science article an apparatus for creating a form of non retinal vision disclosed in it employs a specialized video camera which is carried on the head of a blind user more or less as common eye glasses are used. The text of the article indicates that this camera is employed to provide signals which are processed by a computer in accordance with unspecified algorithms to produce further signals. This computer is apparently carried on the person of a user more or less as a CD player is carried by a walker or a jogger. It is connected in some unspecified manner to a multiplicity of electrodes implanted within the brain of a user which convey an input from the camera as processed by the computer into a usable image differing from the type of image inherent with normal sight.

The desirability of the image received by the user will apparently increase in accordance with the type of electrodes implanted. The text of the article states that when 68 electrodes are employed a user of the device can "see" an area of about 2" x 8" at a distance which is apparently an arm's length from the user's face. It also indicates that a commercial version of the disclosed device which is scheduled to be marketed this year will alleviate this problem, presumably by using

512 implanted electrodes so as to produce a form of non retinal vision enabling a person to "see" mental images consisting of identifiable objects.

This is quite different from the "eyeless sight" disclosed in Mr. Roman's book of the same name. The use of non retinal vision as disclosed by him does not require any apparatus. In effect the eyeless sight disclosed by Mr. Romans is "developed" by "educating" some of a person's nerve endings to be sensitive to radiation reaching a person's skin adjacent to these endings. Nothing has to be implanted anywhere in the body to make use of this sensitivity. No camera or computer is required with it. Judging by the content of his book, the limited precise wording of the Popular Science article, the writer's limited experience and hearsay it would presently appear that the images a person receives by the nerve sensitivity non retinal vision discussed by Mr. Romans must be better than those a person receives via the "blind aid" procedure covered in Popular Science.

A person would have to be mentally "blind" not to see many problems and potential complications with a device as described in the noted Popular Science article. The development of a video camera within eyeglasses as used in this complete device must have been an "interesting" technical problem. The location of the imprint sites in the brain of a user should be regarded as a tribute to the routinizing of current medicine. The development of the computer algorithms required must have been based upon sheer genius.

Even so it is hard to avoid wondering how accurate or effective the device is or will be in providing even a reasonable degree of visual comprehension such as is required in normal living. The example in the noted article of an existing device only providing tunnel vision of an 2" x 8" area at arm's length distance from a blind user of the device does not create much hope for a user being able to obtain any significant degree of "vision", but on the other hand any form of "seeing" should be more than significant to a blind person.

In addition it is not clear how the "blind aid" device discussed in Popular Science will deal with what is anticipated to be a significant problem of implanting the 512 electrodes to be used in the brain. Probably, but not necessarily, the accuracy of what a user of the

"blind aid" "sees" will be critically related to the precise placement of these electrodes. This has got to be a most difficult task burdened by the expected hazards of brain surgery. Will there be consequences of permanently fixing the electrodes within the brain? An additional problem concerns getting signals to these electrodes through the skin of an individual. Judging by the fact that seemingly almost anything contacting the human body has at least one affect and /or effect on the operation of the body a device disclosed in Popular Science to a user of the device seems to have a significant potential of causing trouble.

Why weren't these possibly detrimental points mentioned in this magazine? Why didn't it mention the fact that it is known that the blind can be provided with a form of non retinal vision without encountering problems such as are indicated in the preceding? Isn't this magazine under an informal obligation to its readers to go to indicate when something written up in it may not be a nifty panacea to a problem? Isn't it also under an implied obligation to its readers to disclose enough of the prior art relative to something that implies it is new and wonderful so that these individuals can judge for themselves how much credence should be given to an item disclosed in this magazine? The writer believes that the answer to these questions is a resounding "yes".

Popular Science can be expected to argue that these questions are improper in that they assume the existence of non existent obligations or duties. In so doing it can be expected to allege that in that pursuant to an extension of the philosophy of caveat emptor or let the reader beware legal type of doctrine a publication it is under no duty to fully disclose anything to its readers. This is not believed to be true in connection with a publication of the stature of Popular Science. At least US law is not static on the subject of tort liability. On occasion it adjusts to needs and changes of society.

It is believed clear that under current US tort law in at least most States a party is normally required to fully and completely disclose at least material facts to another party who might rely upon whatever the party discloses when such facts might not be known to or obvious to this second, other party. It is believed that a concurrent duty to indicate the significance of such

facts when this might be important to and not apparent from the facts themselves.

Such a duty is evidenced by the disclosure forms in a normal real estate transaction and by many consumer protection laws. Anyone dealing with the US Patent and Trademark Office is or should be aware of the current obligation requiring those seeking patent protection on a possible invention to disclose prior art which is closely enough related to the invention that it should be considered in connection with the granting of the patent on the invention. The existence of this duty can be evidenced in other manners.

In general the obligation to disclose is believed to exist whenever a magazine such as Popular Science discloses information known to it which readers are apt to consider and perhaps rely upon in making life's decisions. This obligation is believed to require it to inform its readers of facts known to it which might not be known to these readers or which might not be readily apparent to them. A critical question is whether or

not this duty requires a magazine to seek out at least reasonably available or apparent information such as prior art which was previously unknown to it so that such information can be disclosed pursuant to this duty.

From experience the writer knows that there are divergent views on this point. The large conglomerate owning Popular Science can be expected to argue that its magazine is under no obligation to tell its readers anything beyond what it clearly knows. It can be argued that this is inadequate under current law since many of the general public consult it in keeping up some of the changes in technology occurring in our society and refer to its content in occasionally making decisions such as making purchases.

The fact that this magazine intends its contents to be at least in part used in this manner is considered obvious from the detailed information routinely furnished in it to prospective buyers and others as to new automotive vehicles. This latter information is significantly based upon its own testing and evaluation of these vehicles. Is the fact that it performs its own investigation of the facts it prints relative to vehicles an implied acknowledgment of a duty to seek out and publish information which it does not already have or

which can easily obtain on other items it discloses?

This indicates another aspect of the duty to disclose problem which relates to the extent of the assumed duty. It would be unreasonable to require any publication to completely exhaust all of the leads it could follow in an effort to seek information as to the safety and efficacy and the novelty of an apparently new development. If a publisher were required to exhaustively investigate each thing it publishes and to disclose the results the consequences probably would be disastrous. Probably either magazines such as Popular Science would have to become investigative research laboratories or drastically alter the type of material set forth in them. On the other hand is it unreasonable to require them to disclose information which they either have or should be able to obtain without significant effort?

In this case, information as to such safety and efficacy of the Blind Aid device either apparently should be or soon will be available because of the need to obtain clearance to market a new "medical" device. Since it is normally considered to be extremely stupid to go ahead with the marketing of an expensive commercial device without checking on available "competitive" items and procedures and the entire patent situation relative to the device the prior art relative to the Blind Aid must have been available when the Popular Science write-up of this device was prepared.

It is thought that if Popular Science had disclosed things as indicated in preceding paragraph or had done such things as including a discussion of the practicalities of the Blind Aid that no one would be under any illusions as to how this device should be considered. After exercising a modulus of common sense and reviewing the book, "Eyeless Sight" by Jules Romans mentioned in the preceding, it is believed apparent if, and only if, the type of non retinal vision described in this book is "operative" in providing even a degree of an alternative for normal vision to the same extent that the Blind Aid device is "operative" for this purpose that it is far more desirable than the Blind Aid.

Many individuals are handicapped by being unable to accept significant new concepts which materially differ from their established beliefs resulting from their prior education and experience. These problem

unfortunates can be expected to reject non retinal vision based upon the "education" sensitivity of the ends of nerves in the skin. They can be expected to fight and even to lie about the clearly obvious rather than face the possibility that their belief systems might be flawed. No one can consider them to concede that nerve ending type non retinal vision has ever or will ever stand a chance of being operative for its intended purpose.

Others can be expected to accept the statements in "Eyeless Vision" without question. Those who are hesitant to do this, but who have open minds may want to demonstrate to themselves the validity of this type of non retinal vision. Because the "adaptability" or "flexibility" of "uneducated" nerve ends seem to decrease with age it is best illustrated by a comparatively young person. Such an individual should be placed at a table with a relatively large incandescent light shining directly down against the table. Then the individual should be asked to close his or her eyes and select between two cards such as the ace of diamonds and the ten of spades of distinctly different reflectivity by repeatedly and slowly moving her or his hand across the cards at a short distance above the cards.

When the writer did this many years ago he was soon able to distinguish between these and many other cards when the hand was held so that its back edge was closer to the cards than the other parts of his hand. It seemed and seems obvious that the ability of the nerve endings in this part of the hand to respond to reflected radiation was the key to nerve ending type non retinal vision. Further informal experimentation indicated that the necessary sensitivity was not confined to the hands. It seemed to exist in the nerve endings along the upper lip and adjacent to the cheek bones. This could be fortunate in avoiding a blind person having to walk along holding out her or his hand so as to be able to gain an indication as to where she or he was going.

There appears to be no point in encumbering this document with further information relative to the operative character of nerve ending non retinal vision. It works. It costs only the time and energy necessary to learn the technique involved. While we do not know the probable cost of a commercial embodiment of a Blind Aid device it has got to be relatively expensive

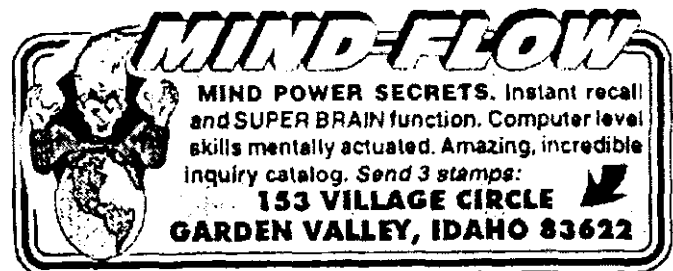
since it is composed of technological "gems" of a type normally associated with money. It is sort of horrifying to contemplate the costs and possible complications of implanting the electrodes used as a part of this device. Maintaining the connections to these electrodes through the skin of a user probably will be a problem.

These and related complications of Blind Aid vision are avoided by non retinal vision based on the use of nerve endings. While it has limitations which have not been discussed in this document and presumably cannot be used by all individuals because of differing nerve sensitivities it seems so much more advantageous than a Blind Aid device that it is thought that Popular Science both should have and would have wanted to present it to its readers in the context in which it "fits" in the of providing simulated vision to the blind. Is a combination of inertia and desire to protect the status quo of those who serve the blind responsible for there still not being provided with a desirable alternate to normal vision? Are these factors cooperating with closed minds in achieving this situation?

And do the readers of Borderlands have a duty to speak up in a situation such as the present when socially established technology apparently has a desire to reject borderline science in favor of new developments which seem undesirable when compared to what is known to borderland science? Probably the answer is yes. What is the point of knowledge being accumulated in the field of borderland science if the such knowledge is to be hidden and not used?

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THE SABIANS OF THE HOUSE OF WISDOM

A History of Gnosis

BY JONATHAN SELLERS

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In dealing with a subject like this, it is necessary to clarify just what is meant by the term "Sabian." For sure, a lot of nonsense has been written concerning the Sabians, the Sabaeans, the Johannites, whether of Basra or Bosra or Bussora, and whether or not they were Nazarenes, Nasoreans, Nazaraeans, or Nosairi or Nusayri. In fact, though there are definite family ties that link each of these together, they are very distinct movements, representing links in a long and confusing causal chain. It is no longer acceptable to say that the Sabians of Harran and Baghdad are the same thing as the Mandaeans of Basra, because this is untrue. Further, it is no good to say that the Sabians of Harran and Baghdad, or the Mandaeans of Basra are the same as the Sabians of Bosra, because Basra and Bosra are two separate locations. Also, it is irresponsible to connect any of these with the Sabaeans of Saba, in southern Arabia, unless one knows history well enough and can connect the dots causally.

There is a world of difference. The word, SABIAN, derives from the Arabic, Sabi'una, from שָׁבִי' [Note: TzBA in Hebrew], to baptize, according to some. Also, שָׁבִי' [note: TzBA in Hebrew] = 93, which is of importance to all Thelemites. Elsewhere, we have found that the term refers to The Wise.

There seems to be a confusion as to the term. Here is a list of people who have been confounded with the Sabians: 1. ELKESAITES, including the Nazaraeans, the Nazoreans, the Nasoreans, the Nazarenes, the Essenes, the Ebionites, the Sampsaeans, the Masbotheans, the Mughtasilahs.

2. MANDAEANS, including the Haemerobaptists, the Mughtasilahs, the Christians of Saint John, the Nazaraeans, the Yezidis.

3. YEZIDIS, including the Yezidis (Dasni), the Isma'ili, the Assassins, the Sufis, the Batinis, the Carmathians, the Ansayri, the Alawites, the Nusairi, the Druzes.

4. HARRANIANS, including the Sabians, the Sabaeans, the Pagans of Harran and Baghdad, etc.

5. SABAEANS, from SABA, in the Yemen, and the Red Sea Coastline of the Arabian Peninsula. From here came the Chaldaeans, the Nabateans, the Jafnids, the Ghasanids, the Wise Men of Damkar (Dhamar, the location of

a very important and famous Islamic University).

6. SABAEANS, from the AXUMITE KINGDOM, in Ethiopia, the real land of Prester John. Cross-penetration between Yemen and Ethiopia brought the Sabaeans culture to East Africa, and down the Nile to Egypt. Our research demonstrates and proves this to have taken place prior to the time of Akhnaten the heretic.

So that, while all these systems are different, technically, they are all connected to each other, like different sects of Gnostics are connected, though very different in language, usages, doctrinal elements. We must examine each of these, in succession, to see if we can gain illumination as to the identity of the real sect which initiated Hugues de Payen and Godefroi de Saint Omer.

1. The Poor Brethren:

Elkesaites, Ebionites, and Essenian survival groups.

We possess very little information on the Elkesaites. Most of what we possess comes from the excellent article in Hastings' Encyclopaedia of Religion and Ethics, by Brandt. G. E. von Grunbaum, in Classical Islam, tells us that "The prophet Elxai who preached in East Jordan at the time of Trajan proclaimed Christ as a being born many times in different people, who frequently speaks to humanity, not as himself, but through prophets." This appears to be similar to the idea of renewed Avatars in our discussion in the previous section on Johannite theology.

The Encyclopaedia Britannica, 14th Edition (1930 printing), gives us the following: "The Essenes, while clinging to what they held to be original Mosaism, yet conceived and practised their ancestral faith in ways which showed distinct traces of syncretism, or the operation of influences foreign to Judaism proper. They thus occupied an ambiguous position on the borders of Judaism. Similarly Christian Essenism was syncretist in spirit, as we see from its best-known representatives, the Elchasaites, of whom we first hear about 220, when a certain Alcibiades of Apamea in Syria (some 60m. South of Antioch) brought to Rome the Book of Helxai the manifesto of their distinctive message

(Hippol., *Philos.* ix. 13) and again some 20 years later, when Origen refers to one of their leaders as having lately arrived at Caesarea (Euseb. vi. 38).

"The Periodoi or Circuits must not be thought of as strictly Elchasaite, since it knew no baptism distinct from the ordinary Christian one. It seems rather to represent a later and modified Essene Christianity, already half Catholic, such as would suit a date after 250, in keeping with Eusebius' evidence. Confirmation of such a date is afforded by the silence of the Syrian Didascalia, itself perhaps dating from about 250, as to any visit of Simon Magus of Caesarea, in contrast to the reference in its later form, the Apostolical Constitutions (c. 350-400), which is plainly coloured (vi. 9) by the Clementine story. On the other hand, the Didascalia seems to have been evoked partly by Judaizing propaganda in north Syria."

G. R. S. Mead, in *Fragments of a Faith Forgotten*, speaks of the Elkesaites as being a pure invention of the heresiologists, but we will excuse him, since he was a Theosophist. The Ebionites, or "poor men," originated as the Nazoreans. These were the Jessaei, according to Epiphanius:

"Epiphanius would have it that the Christians were first called IESSAEI, and says they are mentioned under this name in the writings of Philo. The followers of the earliest converts of Jesus are also said to have been called Nazoraei. Even towards the end of the Fourth century, the Nazoraeans were still found scattered throughout Coele-Syria, Decapolis, Pella (whither they fled at the destruction of Jerusalem), the region beyond the Jordan, and far away to Mesopotamia. Their collection of the Logoi was called The Gospel According to the Hebrews, and differed greatly from the synoptic accounts of the Canon. Even to this day a remnant of the Nazoreans is said by some to survive in the Mandaites, a strange sect dwelling in the marshes of Southern Babylonia, but their curious scripture, The Book of Adam, as preserved in the Codex Nazaraeus, bears no resemblance whatever to the known fragments of the Gospel According to the Hebrews.

"Who the original lessaeans or Nazoreans were is wrapped in the greatest obscurity; under another of their designations, however, the Ebionites, or "poor-men", we can obtain some further information. These early outer followers of Jesus were finally ostracized from the Orthodox fold, and so

completely were their origin and history obscured by the subsequent industry of the heresy-hunters, that we finally find them fathered on a certain Ebion, who is as non-existent as several other heretics, such as piphanes, Kolarbasus, and Elkesai, who were invented by the seal and ignorance of fourth-century heresiologists and 'historians.' Epiphanes is the later personification of an unnamed distinguished (Epiphanes) teacher; Kol Arbasus is the personification of the 'sacred four' (Kol ARBA), and Elkesai, the personification of the 'hidden power' (Elkesai). So eager were the later refutators to add to their list of heretics, that they invented the names of persons from epithets and doctrines. So with Ebion.

"The Ebionites were originally so-called because they were 'poor'; the later orthodox subsequently added 'in intelligence' or 'in their ideas about Christ'. And this may very well have been the case, and doubtless many grossly misunderstood the public teachings of Jesus, for it should not be forgotten that one of the main factors to be taken into account in reviewing the subsequent rapid progress of the new religion was the social revolution. In the minds of the most ignorant of the earliest followers of the public teachings, the greatest hope aroused may well have been the near approach of the day when the 'poor' should be elevated above the 'rich'. But this was the view of the most ignorant only; though doubtless they were numerous enough.

"Nevertheless, it was Ebionism which preserved the tradition of the earliest converts of the public teaching, and the Ebionite communities doubtless possessed a collection of the public sayings and based their lives upon them.

"It was against these original followers of the public teaching of Jesus that Paul contended in his efforts to gentelize Christianity."

Evidently, even Mani the Prophet of Manichaeism was a member of this, or a related community. Hans Joachim Klimkeit, in his excellent collection of translations of Iranian, Sogdian, and Chinese Manichaean texts, *Gnosis on the Silk Road* (San Francisco: HarperSanFrancisco, 1993), says that Mani was first initiated into the Elkesaite community:

"... Mani grew up in an area where the most varied

religious traditions prevailed, the Sassanian Babylonia of the Third century A.D. Here he was raised in a Jewish-Christian 'Baptist' sect, the sect of the Elchesaites, as we know from the recently edited Cologne Mani Codex, a Greek text from fourth or fifth century Egypt. From this document, which was apparently part of a Manichaean church history, we learn that this community had specifically Jewish traditions, apparently going back as far as the Qumran community. Though rooted in that tradition, it regarded itself as a Christian community as far back as its founder Elchesaios, who must have preached his message around 100 A.D. Gnostic tendencies may have already had an impact on the thinking of the community, as they influenced various groups in Mesopotamia, which was contiguous to Syria and Iran. In the Mesopotamia of that time, ancient Babylonian mythology, as well as the Jewish, Christian, and Iranian religions were in evidence. This possibly means that the Essenes split into groups. As we have written, above, this is not out of the question. The Elkesaites were probably prior to the Mandaeans, who probably got some followers from them. The Mandaeans, as we shall see, possess the oldest continuous tradition known to humanity, going all the way back to Sumer. Legge, in *Forerunners and Rivals of Christianity*, demonstrates that Mani had been initiated early into the sect of Haemerobaptists/Mughtasilahs.

The Elkesaites came together about 100 c.e. The founder of the sect is named Elkesai. He began preaching in the third year of Trajan. This suggests his birth to be c. 70 c.e. From the description given in Hastings' he appears to have been schooled in the doctrines of the Haemerobaptist sect of Essenes.

Since Elkesai came from the Trans-Jordan region, this is probably the case. After 68 c.e., the Essene central authority was disbanded, and the subjects split up and moved on to various locations. The Haemerobaptists would have stayed near the Jordan, since they held to living water as being the only efficacious medium for baptisms.

This group eventually became known as the Sampsaeans, after 68 c.e. The word Sampsaeon refers to the "Sun-People," after the Johannite practice of worshipping the Morning and Evening stars, at those times of day. The former being John the forerunner, the latter being John the follower, the Sun being the Anointed

John. These practices were followed by the Essenes, if in fact the Essenes are the persons responsible for the Dead Sea Scrolls.

"Before Epiphanius left Palestine (A. D. 367), he heard of a sect living in the country eastwards from the Jordan and the Dead Sea, viz., the Sampsaeans (Sampsenes, Sampsites), who believed in one God, and worshipped Him by ablutions. They held that life arose from water. They vaunted Elkesai as their teacher, and in their midst lived two women, sisters, who were descended from him. The members were accustomed to bend the knee to these women, and even to follow behind them for the purpose of securing their spittle and the dust from their feet, preserving these in capsules, which they carried as amulets. In most matters of creed and ritual they were at one with Judaism; nevertheless they were not Jews. Their distinguishing peculiarity was their reverence for the Book of Elkesai, and they did not own the authority of either the Old or the New Testament. Incorporated with them were the Ebionites, the Nasoraean, the Nazaraean, and the Osseans. With reference to this point, Epiphanius states that the last-named "The only conclusion we can draw from these data is that the Elkesaites had given up that particular feature of Judaism which formed at once a bond of union and a principle of isolation for the Jewish people, i.e., their observance of legal purity in food and drink, and their consequent refusal to eat with the heathen. Now the coincidence of this defection with the occurrence of a new name of a decidedly heathen cast forms a sufficient ground for thinking it probable that a group of Syrians of non Jewish race had united with the Elkesaite Baptists, and accepted their sacred book, but did not observe the Jewish regulations about food. The name 'Sampsaeans' if we may trust the accuracy of its traditional form, means 'the sunny ones,' or 'the sunlike', not 'sun-worshippers' or the like. It prompts the conjecture that the 'Sampsaeans' were really a family, and indeed one of high standing. ... Socially, therefore, the older group may be said to have united with the newer, rather than the newer with the older, and In treating of the Mughtasilahs, the Hastings' article informs us:

"The name of Elkesai but only the name crops out once more in an ethnographic note in the *Kitab al-Fihrist* by Ibn Abi Ja'qub al Nadim (ed. Flugel, Leipzig, 1871-72, p. 340). The note refers to a religious community whose adherents inhabited the wide-preading swampy region traversed by the Euphrates in its lower

course, and were locally known to the Arabs as al-Mughtasila, i.e., 'those who wash themselves.' We are informed that 'these people are numerous in the marsh-lands, and they are, in fact, the Sabaeans of the marshes.' They must accordingly be regarded as identical with the Sabians (also meaning 'baptists') mentioned in three passages of the Qur'an (ii. 59, v. 73, xxii., 17) as a people who, together with Jews and Christians, are to have liberty in the exercise of their religion.

"...the father of Mani (who founded Manichaeism in the 3rd cent. A.D.) joined the Mughtasila, and educated his son in their faith, and that the latter began to proclaim his own doctrine at the age of twenty-four. The baptists of the Euphrates can thus be traced back to the end of the 2nd century. They were known to Muhammad as monotheists and possessors of sacred writings; and some time afterwards an inquirer learned from them that their founder and lord was called Elkesai or some such name. Now, not every religion has a lord and founder. Islam, however, tolerated such forms of religious belief as were like itself in this respect. Thus the Mughtasila, in meeting inquiries regarding their origin, had the most cogent of reasons for putting forward some name that might stand as coordinate with names like Moses, Jesus, and Muhammad, and accordingly the reference in the Kitab al-Fihrist cannot rank as historical evidence.

"Among the Jews the sect of the Essenes accepted the teaching of Elkesai. From the time of the Jewish war this group of zealous baptists had settled in the district to the east of the Jordan, where they had the opportunity to follow their practice of ritual bathing in streams and wells. Elkesai's teaching was in many points akin to their own. Burnt-offerings had already been discarded by their fathers, even while the altars of the true God were still burning at Jerusalem. It is likely enough, too, that a belief in astral deities would prevail in a community which worshipped the sun at his rising. Whether the Essenes abandoned that worship in compliance with Elkesai's general injunction against turning to the East in prayer, we do not know... Nevertheless, they must have in some degree maintained their distinctive character and their separate existence as a community, else Epiphanius could not have spoken of the remnant of their adherents in his day as a definite group among the Elkesaites."

The later fortunes of the Sampsaeans is a very interesting story. They became known as the Galileans, the Nazerini,

and, eventually, the Nusairi. It is extremely interesting how a group, once with singularly Buddhist influences, as the Essenes possessed, would be a Jewish sect; then a Christian sect, in fact a Christian sect which held the most primitive Church religion, since the group in question is what brought about the Anointed One's mission in the first place. Then, it becomes an Islamic secret sect, basing itself on Isma'ili doctrines, of the Sevener faction of Shia Islam. In fact, the Johannite Sect, here mentioned, is none of the above that is, neither Jew, nor Christian, nor Moslem can claim it, yet it is the Sect which helped to inspire the creation of all three.

Also, we have shown that Mani was a member of the Elkesaite community in Babylonia. It is likely that the Qadosh Fathers, who constituted the Central Authority of the Essenes, in their Syrian group, settled to the East Jordan as the Sampsaeans. The Egyptian group at first settled down as the Therapeutae, later as the Thebaid solitaires. But, the Elkesaites were the Haemerobaptist sect in the Essene community, probably offshoots of Dositheos' followers. They were the connecting link, even with their originally strict Jewish observance. Eventually, they allowed religious dissimulation in order to survive. This is one of the key elements in the Paradigm we are studying. The Sampsaeans were the Hierarchical structure they needed. In fact, when the Dosithean group split off from the Essenes proper, it must have been traumatic, since Dositheos, or Jonathan was the chief Prophet/Master of the whole group, in fact, the Highest Degree, analogous to the 33° in the Scottish Rite, or the Outer Head of the Order in the Ordo Templi Orientis, or the 97° (Most Illustrious Grand Master and Conservator of the On the subject of renewed incarnations of Avatars, it is worth mentioning that just about all the sects we have been examining presently, and shall examine through the remainder of this work, are believers in this doctrine.

The exoteric blind is that the particular prophet of any given sect Jesus, Muhammad, Mani, Husayn, Ali, is the awaited last incarnation before the final judgement. Even the exoteric Thelemites behave this way. However, one need only examine Time itself, and see that this "last incarnation" or one Avatar every few hundred years or so, is a control mechanism.

We would be amiss if we said that everybody is a Johannite incarnation. That, too, would be a blind. We hold that:

1) Bloodline,

2) Incarnation, and

3) Actual connection to the Chain of Initiatory Bodies, in combination, in the West, at least, ensures a worthy incarnation of an Avatar, rather than another Koresh, Applewhite, or Manson.

>From the first Johannite Avatar to the present, and beyond that to thousands of years past our present conscious existence, we shall continue to return.

The Elkesaites are, then, a branch of the Haemerobaptist sect which formed a part of the Essenes. There were different branches:

a) the Qadoshim;

b) the Katharoi;

c) the Chassidim;

d) the Haemerobaptists;

e) the Ebionim.

The highest branch was the Qadoshim. These men ran the Order, like the Chiefs of the R+C. The Katharoi were the Perfect, and their branch spread the Catharist Gnosis. The Chassidim were a form of bridge between the Adepti and the Laity, and were concerned with works, and ascetic practices. The Haemerobaptists were an Initiatory Body, and the liturgies were in their keeping. The Ebionim were the lower rank of 'poor men' and constituted the laity, who also formed the earliest church bodies (i.e. the authentic Christians). They were probably unaware of the Johannite Doctrine, the Gnosis. These people were more likely to be a part of the group described in Holy Blood, Holy Grail as the 'adherents of the message.'

It is said that until the Jews got blamed for the death of Jesus, and the Jewish elements had yet to be removed from early Christianity, the Ebionites had several communities, one of which was at Pella. It was here, we are told by Legge, in Forerunners and Rivals of Christianity, and by others, that the Synoptic (so-called) gospels were originally developed.

"The origin of the Nazarenes or Ebionites as a distinct sect is very obscure, but may be dated with much likelihood from the edict of Hadrian which in 135 fi-

nally scattered the old church of Jerusalem. While Christians of the type of Aristo of Pella and Hegesippus, on the snapping of the old ties, were gradually assimilated to the great church outside, the more conservative section became more and more isolated and exclusive. ... Though there is insufficient justification for dividing the Ebionites into two separate and distinct communities, labelled respectively Ebionites and Nazarenes, we have good evidence, not only that there were grades of Christological thought among them, but that a considerable section, at the end of the 2nd century and the beginning of the 3rd, exchanged their simple Judaistic creed for a strange blend of Essenism, Gnosticism as in the 'Clementine' literature of the 3rd century and Christianity."

"NAZARENES, an obscure Jewish-Christian sect, existing at the time of Epiphanius (fl. A.D. 370) in Coele-Syria, Decapolis, (Pella) and Basanitis (Cocabe). According to him (Panarion, XXIX. 7) they dated their settlement in Pella from the time of the flight of the Jewish Christians from Jerusalem, immediately before the siege in A.D. 70; he characterizes them as neither more nor less than Jews pure and simple, but adds that they recognized the new covenant as well as the old, and believed in the resurrection, and in the one God and His Son Jesus Christ. Recent investigation leads to the conclusion that the Nazarenes of the 4th century are, in spite of Epiphanius' distinction, to be identified with the Ebionites (q.v.)."

Cocabe is where Peter the Gnostic resided, before c. 350 C.E. As we shall see, it is Peter the Gnostic who instructed Eutaktos of Satala in Armenia, and converted the latter to Gnostic Christianity. Eutaktos then formed the sect known to heresiologists as the Archontics, and which may be a forerunner of the Paulicians. Epiphanius in his condemnation of the Archontics states clearly that Kokabe is where the roots of the Ebionites and Nazoreans sprang. At any rate, we have a community of heretics there, right where we want them.

While the Haemerobaptists evolved into the Dositheans, Simonians, Nicolaitans, and the general Gnostic current of the Sethian type; and the Dosithean sect had an offshoot in the Elkesaites; and the "Pure" were the forerunners of the Cathars, and related groups; the Ebionim developed into the Ebionites, and they developed into the general 'heretical' form of Jewish Christianity, Nazaraean Christianity, which spread far and wide, even though the Orthodox church, so-called, tried to exterminate it. For a delineation

tion of these technical terms, we recommend Eisenmann and Wise, *The Dead Sea Scrolls Uncovered*. In the scrolls themselves, it is clear that the Essenes were divided into these grades, and from material in our possession, there were actually Nine Grades in the hierarchy, which is to say they are definitely to be considered as ancestral links in the Authentic Tradition, even if some of the material published from the scrolls suggests that they were a bit too fanatical in some respects.

We see this same poor-man's movement several times, like in the Tafurs, mentioned earlier. [i.e., in Part One of *Qadosh: The Johannite Tradition, Section on the Temple*.]

We apologize to the reader for all this seeming confusion. One degree of the old Order became a separate Order. So, if we have Nine Degrees, it is possible that we will, in the end, have Nine Orders to trace. This is not improbable. Certainly it can be seen that the classes were kept distinct and separate, because, like Clement of Alexandria once said, "Not all truths are true for all people." Similarly, the Truth of the Probationer is the Falsehood of the Neophyte, and the Truth of the Neophyte is the Falsehood of the Zealot, and on until the Highest Truth of them all is incomprehensible to the naive laity and must be cloaked in tissues of legends and fabulous stories in order to be correctly understood, for the imperfect understanding of it could (and has) lead to licentiousness and irreligion.

Aleister Crowley once wrote (in *KONX OM PAX*) that when the aspirant is a fervent believer, the only course of action is to demonstrate conclusively that there are no such things as Gods, Angels, or Spirits. Conversely, if the aspirant is an agnostic or an atheist, then the point is to be brought home that God is everywhere and in everything, and that all actions are a dealing of God with the aspirant's soul. This teaching was brought to us by the Illuminati, by the Isma'ili, by the Gnostics, and ultimately it goes back to the highest levels of the groups we are studying presently.

The problem we find in all this is that of the stepping stone mistaking itself for the whole walkway. There are other stepping stones. The walkway itself is much longer than one stepping stone and the name of the stepping stone is usually irrelevant as far as the name of the walkway is concerned. The walkway in our context is *Le Serpent Rouge*, the Royal Art, the Authentic Tradition, the Legacy of the Sons of the Wise Ones of Enki, handed down to us, to you, if you be a fit receptacle; from the Nephilim, from Enki, from the Ruler of Nibiru, the Paradise realm of Olahm, and the Grace of the Most High, El-Elyon.

In the context of a time-span such as this, Christianity as devised by Peter, Paul and the lesser-known frauds and bunco artists, is insignificant. What is, is the Authentic Tradition. The concept of salvation is not being mocked. Actual Salvation is a gift, a precious GIFT, but pretended salvation is a curse, to be avoided and shunned.

One interesting feature we find is that all of the sects under examination, even the Qadosh Fathers, the "Jewish" Christians, the Essenes, and their survivors today are in agreement as to their loathing and contempt for the Jews of Judah. These, then, are remnants of Israelite groups, perhaps not entirely Israelite, but survivals of groups at odds with Israel long ago, as in the case of the Samaritans, Canaanites, and Benjaminites.

Walter Birks, in *The Treasure of Montsegur*, Chapter 13, "The Alternative Tradition," quotes a monograph on the Dead Sea Scrolls, by Matthew Black:

"This creative and fluid period in Judaism is one which can only be adequately characterized as that of a widespread and vigorous Jewish sectarianism, a kind of Jewish non-conformity, opposed to the official (predominantly Pharisaic) Judaism of Jerusalem, centered on the Temple and the Jerusalem Sanhedrin. It was represented in the North by strongly anti-Jerusalem, anti-Pharisaic Samaritan groups (Galilee fell well within the sphere of influence of these powerful Samaritan sectaries). In the South, its best known representative was the monastic or semi-monastic sect of the Essenes, located by the ancient historians at the Dead Sea, and quite certainly to be identified with the sect of the scrolls. These were fissiparous groups, but they were solidly united in their opposition to the Judaism of Jerusalem; and they had much in common Samaritan-type Pentateuchs; e.g., have been found at Qumran, and patristic evidence locates a group of Essenes in Samaria. The strong probability is that these anti-Jerusalem sectaries. By locating an Essene group in Samaria, we have a connection with the Naasseni and Ophites, whom Simon Magus and Dositheos were associated with. It is a little-known fact, that not only did Simon and Dositheos hail from Samaria (little Sumer), but most of the territory where our sects flourished was controlled by the Nabateans, who exercised a considerable influence in those times, even during the period of Imperial Rome. Samaria, Decapolis, Damascus, the Hauran, all the way south to Petra, and beyond to Arabia were all

(Continued on page 32)

part of the Nabatean kingdom. Birks goes on to describe the events which followed, after Jerusalem was destroyed:

"The Romano-Jewish War of 66 - 70, culminating in the fall of Jerusalem and the destruction of the Temple, had a devastating effect on both the established Jewish religion and nascent Christianity. The Christian Church had been born at Jerusalem and the 'Church of the Apostles and Elders' there had been regarded as the Mother Church. They had remained entirely Jewish, continuing the Temple worship, and differing from other Jews only in the belief that Jesus was the Messiah, and that his return in glory was imminent. But, as a result of the war, the Jerusalem church removed in 67 to Pella in Decapolis. Here it found itself in a totally different atmosphere. All over Galilee, Decapolis, and southern Syria there were large numbers of people on whom Christ had made a profound impression simply by his teachings and his personality...

"These were the ebionim, the 'poor in spirit' of the Beatitudes. Another Beatitude is addressed to the 'pure in heart' oi katharoi te kardia. Ginsberg lists katharoi as one of the etymologies of the word Essene. Moreover, at Pella, as Beveridge tells us, 'The Church was recruited from the Essenes, and an Essene element began to penetrate it.' It is an interesting suggestion that the relationship of the ebionim to the Essenes was perhaps analogous to that of the Cathar Credents to the Perfecti. After the first century the Essenes are no longer heard of and it seems a reasonable assumption that they were simply absorbed in the nascent Christian Church, or indeed, were its nucleus."

If we take the above and collate it with what we mentioned (and quoted) about the Sampsaeans and Elkesaites, we shall see how survival was effected. We see a single thread that connects all these sects together. It is called Johannism, and it will a thousand years later resurface in Europe in the Knights Templars and in the Rose-Croix. This is the meaning of scripture, where it is stated that the true Church was driven into the desert.

In the legend of the Qadosh Fathers which we noticed above, there is mention of the name of one of its Grand Masters, "Mannchem." This is evidently a corruption of Menachem or Menahem. This name shows up in Josephus' writings as the name of a Messiah figure which predated Jesus and by a generation or so. Birks mentions him too.

"At Antioch, there was already a church, and St. Luke tells us (Acts 13:1) that among the prophets and teachers there was 'Manaen which had been brought up with Herod the Tetrarch.' Josephus in the Antiquities of the Jews (Book XV) also tells of a certain Essene named Menahem, much esteemed by Herod, who was celebrated as a prophet and a man of holy life, that he and Herod had been boys together, and that while going to school he had told Herod that he would one day be king."

Herod Antipas, the Tetrarch, son of Herod the Great, flourished from 4 B.C.E. to 39 C.E. Assuming that the Manaen mentioned above was a contemporary, that would place him at forty-something, at 39 C.E. Assuming that the Qadosh Fathers were prone to live long lives, he would have been the Grand Master at the time the split occurred in 68 C.E. The split may have even been prompted by his death. It is also possible that he would have succeeded Dositheos, or, rather, would have been a holder of the Dositheos-ship, since there are many Dosithei. At any rate, this Manaen is a connecting link, for he existed at Antioch, where also Nicolaus and his disciple Carpocrates existed, within years of each other.

"After the fall of Jerusalem Christianity developed in two distinct cultural regions. The first was the Aramaic and Syriac speaking area stretching northwards from Palestine to the region of Antioch and beyond to the Taurus mountains. The second was the Hellenistic, largely Greek speaking region of Asia Minor that was the mission field of St. Paul. It was this latter which developed Catholic Christianity, but it is in the former, much less well documented, that we must seek the origins of the alternate tradition. It was in this region that the earliest Christian writings circulated. Written in Aramaic they preceded the existing New Testament canon, but none of them survive intact today. Aramaic was a provincial tongue while Greek was universal. It was inevitable, therefore, that when the Church became international its local Aramaic writings were absorbed and adapted, not only was the language changed, but the original content was modified to fit the emerging Catholic consensus."

In the next section, on the Mandaeans, we shall devote some time to the proem of the Gospel of John. It will become apparent if it has not already that the most authentic form of early Christianity, which evolved and merged with the various Gnostic schools and these Syrian sects, in-

volved a set of laws for realizing the 'resurrected Christ,' the Kingdom of Heaven,' i.e., Self-Knowledge. This facilitated the removal of restrictions imposed on people through conditioning. This was exactly like the Buddhists, the Tantriks, the Egyptian Gnostics, the Neo-Platonists, the Hermetic Philosophers, and so on. "Sin" as we are told by the Church, is sex, and every other real joy in life. In fact, it is just this negative attitude that is Sin. Therefore, the believer didn't become pure until he'd gotten it out of his system. Then, in old age, he could take the baptism and be assured of salvation when he died and was resurrected in the next birth. This has its parallels in all religions known to humankind, except for Chri These sects had strictures, it is true, for a technical purpose: self-liberation as opposed to the systems of religion like Christianity, where the strictures are applied in the name of potential (but not actual) salvation, but in reality exist only as a petty and cruel means of social engineering, worthy of the worst the history of tyranny and superstition has to offer. Epiphanius of Salamis, canonized a saint, but wholly unworthy of it, mentions that the Nazarenes employed the same scriptures as the followers of Cerinthus. This was a reference to the Gospel according to the Hebrews. Cerinthus, according to John Yarker, was the actual author of the Apocalypse. Where he got that, we have no way of knowing. It may be true. Cerinthus was one of Simon Magus' chief successors, so the Dositheos title may have been his (as St. John the Divine). This would account for his hatred of the Nicolaitans, who were a rival offshoot of the Simonian school.

Birks presents a quote by Steven Caiger (Archaeology and the New Testament), of a reconstruction of a passage from the Gospel according to the Hebrews:

"The Kingdom of Heaven is within you and whosoever shall know himself shall find it.

"Strive therefore to know yourselves and ye shall be aware that ye are the sons of the Almighty Father.

"And ye shall know that ye are in the city of God and that ye are the city."

In other words, the Kingdom of Heaven is not without. In other words, Jesus (a.k.a. 'Our Lord Jesus Christ') is not the only son of God, only coming on the scene once, born of a virgin who had a spirit whispering in her ear to impregnate her and her hymen remained intact even after childbirth, even though they probably weren't performing caesarian sections in those days, dying on the cross, rising the third day, ascended to heaven and will return to judge the

wicked. This is something which is available potentially to all believers in this creed. This is very similar to the doctrines taught in the extremely advanced Tantra, the Kalachakra Tantra.

MAN, KNOW THYSELF! DO WHAT THOU WILT SHALL BE THE WHOLE OF THE LAW. THERE IS NO LAW BEYOND DO WHAT THOU WILT.

The Almighty Father, too, is Jehovah's father El-Elyon.

We shall continue now with a couple more quotes from Birks, on the subject of the Ebionites and the Essenes:

"On the whole it would seem that the term Ebionite was applied more often to those who still hold strongly to the Jewish faith and believed that it was necessary to fulfill the Law, while Nazarene was applied more generally over the Syriac world where it survived until the fifth century. St. Jerome found Nazarenes in Peraea, which is now Trans-Jordan, where Pella is, too. Pliny the Elder mentions the Nazerini as forming a tetrarchy separated from Apamea by the Orontes. This is a particularly significant reference for this is the area inhabited today by the Nosairis, otherwise known as the Alawis, whose religion is the ancient Pagan religion of the country, modified by Christian, Moslem, and especially, Ismaili influences."

Aphraates was a significant Syrian Christian, head of a convent near Mosul, dedicated to St. Matthew. He wrote a series of discourses on the faith, from c. 337 - 345 C.E. He was known as hakkima pharsaya, 'the Persian sage,' was born to 'heathen' parents, and was probably a convert himself. In Birks, we find the connection to our story:

"Aphraates appears to divide Christians into the 'sons of the Covenant,' and the Penitents. The Penitent is the general adherent, who has not as yet volunteered for the sacramental life; the son (or daughter) of the covenant is the baptized Christian, who is admitted to partake of the Eucharist. Those who volunteer for Baptism are to be warned 'He whose heart is set to the state of matrimony, let him marry before baptism, lest he fall in the spiritual contest and be killed...He that hath not offered himself and hath not yet put on his armour, if he turn back he is not blamed.'

In other words, the average Christian of this community

forward to becoming a full church member only at a somewhat advanced age, and as a prelude to retiring morally and physically from the life of this world. In Apraates, baptism is not the common seal of every Christian's faith, but a privilege reserved for celibates, or at least those who intended to live a celibate life for the future. We meet with a similar organization amo. This, then, is the Ebionite Essenian part of the Paradigm. We have seen the Elkesaite contribution. We shall now turn to an important influence upon the origins of the Community, that of the Buddhist missionaries which were sent to Alexandria by the Emperors Asoka, and Chandragupta.

To be Continued Next Issue.

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by the U.S. Navy (1951)
Magnetic Amplifiers
 another lost technology

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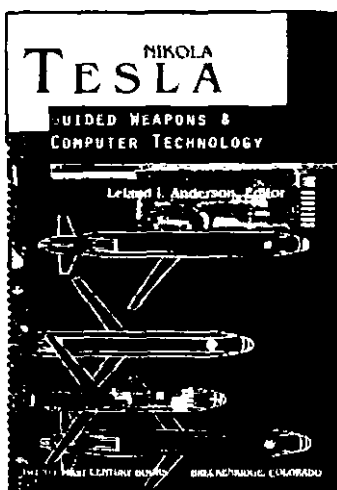
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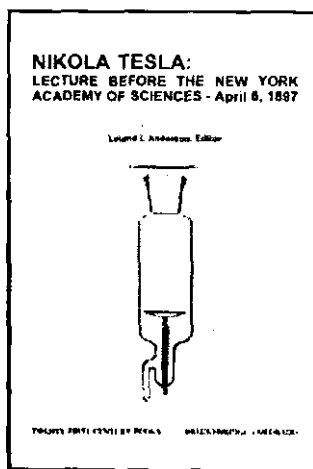
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CLIPS, QUOTES, & COMMENTS

SPACE TRAVEL MAY BECOME 10 TIMES FASTER

BY FRANCIS TEMMAN

GREENBELT, MD. The National aeronautics and Space Administration is partly funding research by a professor at the University of Washington in Seattle, Robert Winglee, who thinks his magnetic propulsion system could make space travel about 10 times faster.

Winglee's invention is only a prototype, but if he can perfect it, exploration beyond the solar system would become possible.

The next experimental tests will be conducted at the NASA Marshall Space center in Huntsville, Ala.

"The computer simulations already have proved that my theory works. If it is validated by the tests that NASA will conduct later this year, then we might see it become reality in the next 10 years," Winglee said during a presentation at Goddard Space Center in Greenbelt, Md.

He has left more than one scientist stunned by the simplicity of his idea, which consists of enveloping an engine in a magnetic bubble that would deflect the solar wind and accelerate a vessel to speeds of 80 kilometres per second, or 288,000 kilometres per hour.

At this amazing speed, it would take only three or four years to reach the edge of the solar system, compared with 42 years using the technology currently available.

U.S. space shuttles with chemical propulsion systems now travel at speeds of 27,700 kilometres of 7.7 kilometers per second.

-Clip courtesy of Lucius Farish and UFO Newsclipping Service

Winglee's inspiration came as he studied the frequent eruptions on the surface of the sun. He noticed that a magnetic field formed around spurts of plasma, or ionized gas, that were violently ejected into space.

He also noted that the Earth itself is protected from solar wind by the magnetosphere, which is essentially an enormous bubble surrounding the planet.

This bubble deflects the gaseous winds traveling at speeds up to 3.6 millions kilometres from the sun. The wind exerts a force, but is not powerful enough to displace the Earth because of the planet's immense mass.

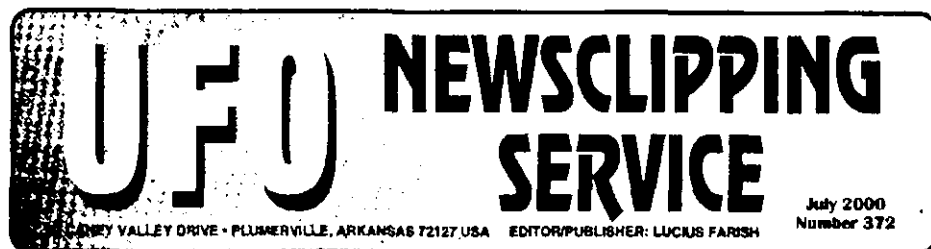
However, the force could be enough to move the smaller mass of a spaceship. The injection of plasma, helium for example, around the vessel would cause the bubble to swell and help propel the ship.

"What we're proposing to do is create a magnetic bubble to deflect the solar wind," Winglee explained.

His invention, called Mini-Magnetospheric Plasma Propulsion (M2P2), rests on long-known principles of physics. It would render unnecessary the immense Mylar sails to "surf" the solar wind that others have conceived.

"We have been stuck with chemical propulsion since the day of the V-2 rocket," laments Ed Weiler, a NASA associate administrator. "If humans are ever to reach the stars, we need a lot more of this innovative thinking."

NATIONAL POST, Toronto, Canada
June 13, 2000 CR: G. Conway





"we have actually touched the Borderland where Matter and Force seem to merge into one another, the shadowy realm between the known and unknown..."

I venture to think that the greatest scientific problems of the future will find their solution in this Borderland, and even beyond; here, it seems to me, lie Ultimate Realities, subtle, far-reaching, wonderful."

—Sir William Crookes, 1879

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