

**TORSION FIELD PHYSICS**

**AND**

**TORSION FIELD COMMUNICATIONS**

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# Introduction

For over a decade, I have been accumulating knowledge of futuristic technologies and new scientific discoveries not commonly accepted by or even known to mainstream scientists. I personally have the pleasure to know some of the top scientists and inventors involved with what some people refer to as a largely unpublicized international “underground” science research network. Disregarding the scientific dogma taught by academia and utilized by commercial enterprises, these people have chosen to follow their own independent paths of inquiry, experimentation, and discovery to whatever they consider may be the genuine scientific truth.

Torsion field communications is arguably one of the more exotic and potentially valuable non-mainstream technologies. Torsion field communications is an immature communications medium that is perhaps about at the stage of radio communications’ development a century ago. At that early era of radio, practical user-friendly radio transmitters and receivers had not yet been developed for commercial sale. Amplitude modulation (AM) and frequency modulation (FM) channels, for example, eventually had to be precisely specified, standardized and allocated.

The theoretical maximum capacity of torsion field communications is apparently 40 billion channels of three-dimensional holographic television at least one billion times the speed of light through the entire earth without attenuation. Torsion field communications, with components only the size of coins or less, may eventually displace all forms of electronic communications including telephones, television, radio, fiber optic cable, microwave, and communications satellites, plus the entire Internet backbone.

Torsion field communications research and development has been and still is conducted by a team of very smart engineers, physicists, etc based in Salt Lake City, Utah and elsewhere led by David Yurth. My personal contribution is the invention of a major advance that comprises part of a patent application which describes a process that is hoped will become the first fully functional bi-directional torsion field communications system.

Prospective investors should emphatically be warned that torsion field communications has a long ways to go before it can even begin to be presentable to venture capitalists and then become ready for commercial licensing.

This document, “Torsion Field Physics and Torsion Field Communications”, is intended to be a temporary repository/anthology of writings, emails, etc on torsion field physics and the commercial development of torsion field communications. Discussion of torsion field effects on live DNA and life forms was minimized somewhat although they are very interesting. In most instances, I am not able to personally take responsibility for the accuracy and validity of my descriptions; I am only editing or copying other people’s reports.

This torsion field physics and torsion field communications anthology is incomplete without David Yurth’s article, “*Torsion Field Mechanics: Verification of Non-local Field Effects in Human Biology*”, Proceedings of INE-2000, Vol. 5, No. 2, The Institute of New Energy's Journal of New Energy. A separate copy of the article is available from either David Yurth or me. For more on the remarkable potential of the torsion field, see <http://www.ufodigest.com/news/0809/torsion-field-print.php>.

Gary C. Vesperman

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# What is the Torsion Field?

Everyone is familiar with electromagnetism, produced by charge, and gravity, produced by mass. A torsion field is produced by the *spin* of a mass, whether it is an electron or as large as a star.

Russian A.E. Akimov's EGS concept deals with three types of physical vacuum polarization. According to the concept, the physical vacuum can manifest as E-field, G-field, and S-field. The E-field stands for the Electromagnetic field, G-field is the Gravitational field, and S-field is indeed the Torsion field (S stands for spinor). Each particle has three independent kinematic parameters: the charge, the mass, and the spin; and each of these parameters is a source of a long-range field: the charge generates E-field, the mass generates G-field, and the spin generates S-field (the Torsion field).

Electromagnetic fields such as light, radio, and magnetism are vector fields in that they possess both magnitude and direction of propagation. Gravitational fields are also vector fields with both magnitude and direction. Torsion fields are scalar; they only have the property of magnitude. Torsion fields operate independently of direction. They also have the extraordinary property of holographically operating throughout the *entire* universe without respect to time nor distance.

If two magnets are swept past each other, a torsion field is generated. Torsion fields do not propagate in a linear fashion like a photon or radio wave at the velocity of light. Torsion fields are transmitted in a non-linear, non-local holographic manner. To illustrate, Russian astronomers have been able to determine the present location of some stars even though their actual light took several years to travel to Planet Earth. Of course, their light shows their locations at the time the light had left a long time ago. The astronomers are then able to detect the torsion field emitted by each star's angular momentum in its *present* true location. Most incredibly, it doesn't matter how far away is a star, even if millions of light-years distant. Their torsion field detectors are bought off-the-shelf from one of at least four Russian companies who make and sell torsion field generators and detectors. So therefore, when the two magnets were moved past each other, the torsion field they had generated after an immeasurably small fraction of a second has already left our solar system!

I spent a couple of weeks March 2003 editing David G. Yurth's manuscript for his ground-breaking book "Seeing Past The Edge". Its 474 endnotes indicate his many years of extensive research in physics, consciousness, cosmology, etc. The following four paragraphs were copied (and slightly edited) from his book's Chapter 9 "The Torsion Field: Information Link to Infinity":

"More than 4,000 papers have been published by more than 150 teams of scientists over the past one hundred twenty years, describing what is the torsion field, what functions it performs, how it works, and where it is to be found.

State-of-the-art devices which have been created to operate in this field are becoming more prolific and sophisticated every day. Today, anyone can buy a 5<sup>th</sup> field generator from any of four sources in the former Soviet states. Their devices have been constructed, operated, tested, documented and patented. They propagate information into and retrieve information out of the torsion field.

The theoretical structure and functional dynamics of the physical vacuum and the role of the torsion field are becoming clearer every day. References are provided in the appendixes to more than 250 different papers, journals and books which describe many of the interesting features of the physical vacuum and the torsion field, including the research conducted by teams of scientists all over the world.

A lengthy list of attributes (see last chapter below titled “Torsion Field Attributes”) has been experimentally identified which demonstrates that the torsion field operates holographically, without regard to time and distance. Its operations are characterized by a variety of behaviors which have been described conceptually, experimentally and mathematically as functions of spin polarity, angular momentum and weighted waveform vector velocities. For example, unlike electromagnetism, where analogous charges repel and opposite charges attract, in torsion fields spins polarized in the same direction attract, and spins polarized in the opposite direction repulse.”

From: Alexander S. Konkretny <[professor@narod.ru](mailto:professor@narod.ru)>  
To: [yman@skylink.net](mailto:yman@skylink.net) <[yman@skylink.net](mailto:yman@skylink.net)>  
Date: Friday, February 07, 2003 8:12 AM  
Subject: Torsion fields.

Hi,

Gary, I was sure I had sent you my reply, but then found out I had not. This sometimes happens to me.

You asked me to comment on your paper. Well, it has some major inaccuracies. For instance, you write that "torsion fields come in at least three types". That is incorrect. You must have misinterpreted A.E. Akimov's EGS-concept dealing with three types of physical vacuum polarization. According to the concept, the physical vacuum can manifest as E-field, G-field, and S-field.

But those are not three types of a torsion field. E-field stands for the Electromagnetic field, G-field is the Gravitational field, and S-field is indeed the Torsion field (S stands for spinor). Each particle has three independent kinematic parameters: the charge, the mass, and the spin; and each of these parameters is a source of a long-range field: the charge generates E-field, the mass generates G-field, and the spin generates S-field (the Torsion field).

Akimov's is a heuristic phenomenological concept giving a schematic representation of the connection between the three fields. G.I. Shipov's Theory of the Physical Vacuum gives a more rigorous interpretation. He shows that our space is not Riemannian one, but that the geometry of our space is the geometry of absolute parallelism (first introduced by a famous mathematician R. Weitzenbock).

A.Einstein's General Relativity operates with four translational coordinates:  $x,y,z, ct$ . But any physical object (any matter) can also rotate; and we need rotational (angular) coordinates to describe the orientation of an object. Thus the geometry of the physical vacuum is ten-dimensional (it is described by four translational and six angular coordinates). The torsion of the geometry of absolute parallelism generates torsion fields.

And when you write that the torsion research has been classified in the USSR for many years, that is also incorrect. It has been classified for just several years, until in 1991 Academician E.B.Aleksandrov made it all public, publicly condemning the research program headed by A.E. Akimov. Aleksandrov is now among the members of the Commission for the Struggle Against Pseudoscience.

AK

From: david <[david@iomedics.com](mailto:david@iomedics.com)>  
To: Gary Vesperman <[vman@skylink.net](mailto:vman@skylink.net)>  
Date: Friday, February 07, 2003 8:27 AM  
Subject: RE: Torsion fields.

Good work. This is part of the equation – the notion that the geometry of the torsion field is ten dimensional is not correct – it is based on the flawed notion that E and G fields are primary, which they are not. As derivatives of single underlying causal field, the manifestations represented by E, G and S can be described in terms of just four dimensions – that is why Maxwell used quaternions instead of decaaternion differential equations. Whitaker validated this approach, and Lorentz screwed it up by using the transform to obfuscate the need for time-domain calculations and spinor-based tensors to calculate electro-dynamic constants.

Thanks,

Dave Yurth

## **Torsion Field Communications Prototype**

The theoretical maximum capacity of torsion field communications is apparently 40 billion channels of three-dimensional holographic television at one billion times the speed of light through the entire earth without attenuation. (I have not seen the mathematics of the calculation behind “40 billion channels” – Gary Vesperman.) Torsion field communications, with components only the size of coins or less, may displace all forms of electronic communications including telephones, television, radio, fiber optic cable, and communications satellites, plus the entire Internet backbone.

A unique design has been developed for a counter-rotating torsion field generator based on a newly patented micro-solenoid technology, counter-rotating mono-polar magnetic plates, mono-chromatic standing wave lasers, and some scalar parallel processor technologies from the Swiss Institute of Technology in Zurich. A prototype has been built and then dismantled. The objective of building the prototype was to universally transmit information through the entire earth at many times the speed of light with a bandwidth wide enough to allow transmission of three-dimensional holographic video on 16.7 million separate channels.

From: Gary Vesperman [<mailto:vman@skylink.net>]  
Sent: Wednesday, January 15, 2003 2:06 PM  
To: David G. Yurth  
Subject: Send TF excerpts

(Deleted)

Do you really have a "functional bi-directional TF communications system" ready to demonstrate?  
(I saw that in your Chapter 6.)

Gary

From: david <[david@iomedics.com](mailto:david@iomedics.com)>  
To: Gary Vesperman <[vman@skylink.net](mailto:vman@skylink.net)>  
Date: Wednesday, January 15, 2003 3:21 PM  
Subject: RE: Send TF excerpts

Not any more – we had it up and running in the lab but had to dismantle it and move the pieces...I am not certain now where everything is, but given some resources and a place to work, we could have it up and running again fairly short order. We can talk about how we know it's working properly when you and I talk.

I'll send the new chapters later this afternoon or in the morning.

Dave

## **Status of Torsion Field Communications**

From: "david yurth" <davidyurth@comcast.net>  
To: "Gary Vesperman" <garyvesperman@yahoo.com>  
Subject: RE: Status of TF communications  
Date: Fri, 19 Nov 2004 08:56:54 -0700

Good morning, Gary.

There are some important things you need to know about TF matters. You touched on some of them in your email.

The Russians demonstrated the viability of this means of communications in 1986 with their M-2 experiments [see Seeing Past the Edge references], in which they used a non-local field generator to send a Morse code signal through 22 kilometers of mountain into a steel reinforced underground silo. The results are published and available to anyone who wants to work hard enough to dig them out.

The Russian Academy of Sciences has launched a major, big-time campaign to squelch any further research into torsion fields and their applications. The point man is a former KGB officer named Alexander Konkretny. When I published my torsion field papers on an independent web site, Konkretny and his guys actually went to the trouble of creating a complete web site for the purpose of discrediting my work on the net. It's still there for anyone who wants to read through it. These guys are nasty and serious about keeping the weak away from this area of research.

More importantly, both Lazslo and Cook have described specific instances in which the gov't of the US has used some variation of TF communications devices in successful experimental systems in both the US and at sea. We know about their use of the toroidal, helical antenna array [essentially a non-local magnetic resonance antenna system] to communicate with submarines at great distances under water. Their results used to be published on the net but have been withdrawn and classified.

Several new patents have been awarded in the past five years to inventors of systems which are claimed to propagate radio frequency signals at superluminal rates. I have also referenced those in my Seeing Past the Edge manuscript, as you may recall. We have attempted to build the devices described in two of those patents and find them essentially useless.

Finally, you need to know that we have, indeed, developed a prototype of a torsion field send/receive system. Our preliminary results are promising because we have been able to perform some functions which are not possible with radio frequency signals. Nevertheless, there still remain some fundamental mysteries to be resolved. The most important of the issues yet to be adequately addressed is the one which is fundamentally prohibited by the standard model – the natural existence and fundamental nature of non-local field effects at all scales.

This is a concept which is very difficult for people to grasp, and it is the reason Tesla was able to develop a system which was capable of powering his automobile around New York for 18 months with no fuel [before his backers withdrew their support and destroyed his working files]. We think we know what this is all about - we THINK we do – but in the absence of any meaningful financial resources, the kind of basic research needed to thoroughly flesh out what is happening at the zero point, where field effects and other physical attributes originate, simply has not been possible – at least not in the private sector.

We know the military research labs are working feverishly to find out how to cut through some of these issues. Our only hope is that they are still so stuck in the confines of the Standard Model of physics that they simply can't see what's really happening. If they ever figure out how to use the torsion field to configure weapons systems, life on this planet will never survive it. Once those assholes develop a weapons system, they have to justify the expense by creating a pretext to use it.

Nevertheless, we have developed a viable prototype design. We have tested its components individually and are convinced that the integration can be calibrated to produce the effects we have been looking for. We have to be so very careful here, because the same dynamics which drive torsion field devices are the ones which have produced Hutchison's effects as well. So calibration, careful integration, thorough investigation, good science and engineering and a degree of luck are all needed to get this thing over the goal line.

My guess is that it will take upwards of two years and at least a couple million dollars of carefully managed capital, a room full of the right equipment and the best engineers we can find to make this really viable. As you very well know, producing an anomalous effect once can be fun and interesting, but it can also be an accident which is not repeatable. Pons and Fleischman proved that beyond a doubt and poisoned the well so thoroughly that few are willing to even look at that area of research any more. So we have to do really world class work to make this happen, and we have to have a capital partner who brings more than simply money to the table.

We can talk with your contact about this but let me caution you again – we cannot and must not tell anyone (1) how it works or (2) represent that we have taken the technology to a point at which it is a candidate for development funding. This project is still well below the threshold for any kind of applications engineering support. We still have to figure out how to embody the dynamics we have uncovered to produce a reproducible, consistently workable effect which is thoroughly and carefully documented before we can go where venture capital guys want to go. And we are not there yet, by a very long margin.

Let me know what you think the schedule is. And have a great Thanksgiving.

Dave

Note David's reference to the US Navy's experiments with using the torsion field to communicate with submarines. The Navy built during the late 1960's an Extremely Low-Frequency (ELF) transmitter near Clam Lake, Wisconsin to allow communication with submarines to fire their ballistic missiles at those dastardly Russian commies when our US President pushes his Doomsday button. (My father happened to write his master's thesis in Science Education for Superior State University on the controversy surrounding the ELF transmitter.) I read a month or so ago that the ELF transmitter is now being dismantled. Dismantling the ELF transmitter ought to indicate that the Navy's torsion field communications experiments were successful! Gary Vesperman



## Making Exotic New Materials with Torsion Field

Approximately half way through the list comprising the last chapter below titled “Torsion Field Attributes”, we find the following attribute:

“As a torsion field is generated by the classical spin of a magnetic plate, we can observe and measure the precise effects of the alteration of spin state of the object or system which is encompassed by it. At the Institute for Problems of Materials Science (IPMS) in Kiev, scientists have for more than 25 years used torsion field generators as an essential component of the apparatus used to manufacture exceedingly exotic materials, for which we have no comparable products in the West. These include mono-molecular powdered metals, solid-state energy accumulators and certain varieties of atomically engineered carbon.”

Endnote xxvi states: “IPMS has also perfected the use of a specially modulated torsion field device to manufacture mono-molecular powders of strategic metals. Using this revolutionary manufacturing method, metals can be stored in conventional glass containers without involuntarily generating static electricity.”

From : david yurth <davidyurth@comcast.net>  
Sent : Thursday, May 20, 2004 10:23 AM  
To : "Gary Vesperman" <gvesperman@hotmail.com>  
Subject : FW: music in the room - Ed Delters, man of science would change energy simply spinning a ball

Gary:

Here is my response to David Crockett Williams' note. FYI

Dave

From: david yurth [mailto:davidyurth@comcast.net]  
Sent: Thursday, May 20, 2004 11:21 AM  
To: 'David Crockett Williams'  
Subject: RE: music in the room - Ed Delters, man of science would change energy by simply spinning a ball

Good Morning, David:

Long message but I'll give you the high hard one and see if we're on the same page. During the last fifteen years, I have read perhaps 4,000 studies, books and papers prepared by other researchers dealing with the subject of torsion and derivative field effects. When I began writing "Seeing Past The Edge" and "The Anthropos Files", I had a notion about how some of this works – after ten years of concentrated research and some serious experimental work, I believe we can make the following observations with some credibility.

Everything in the Cosmos is constituted of information at the primary scale. Absolutely everything. When the infolded implicate order described by Bohm operates on undifferentiated information according the simple, elegant rules which govern the way Nature works, this physical dimension manifests itself in terms of matter, energy, waveforms and field effects which we call "reality".

Operating as derivatives of the fundamental scalar potentials, ALL field effects are derivatives and all manifestations display their attributes in a way that is fundamentally consistent with the Law of Complementarity. Simply stated, in the context of torsion fields, wherever we find a local-linear field effect [gravitational force, electromagnetic fields, strong and weak nuclear forces] we must also find non-local/non-linear field effects, at all scales. Our experimental work and the research of those who have preceded us demonstrate conclusively that this is part of the universal dynamic which defines and governs natural behavior. The Standard Model of physics has always ignored this aspect of how Nature works.

In this context, torsion fields are nothing more nor less than the non-local/non-linear derivative field effects which satisfy the requirements of complementarity. Akimov and Shipov have got much of it quite right. What they have NOT got right is (1) the relationship of torsion field effects to local/linear field effects and (2) the relationship between fractal geometries which operate to define the form and structure of Minkowski 4-Space [L3 plus time] and the holographic nature of the Cosmos [at least the physical universe as we know it] at all scales. The relationship between fractal geometries in the physical, local-linear domain, and the holographic aspects of the Universe, as non-local/non-linear field effects, holds the key to understanding the dynamics we have been unable to explain for so long.

One of the reasons modern science has had a terrible time dealing with this set of issues is because the mathematical expressions which describe the operating dynamics associated with gravitational forces are dead wrong. Akimov's countryman Anastasovski [and his partner Trevor Benson] pulled the rug out from under conventional gravitational formulations when they successfully demonstrated that gravitational force has nothing at all to do with mass. Nothing. Instead, what is now clear is that gravitational fields are propagated both locally and non-locally as a derivative manifestation of spinors, both at the sub-atomic and at the macrocosmic level. When the role of spinors is described in terms of geometricized mathematical formulations, which include corrections of the topological leveling imposed on quantum mechanics by the Lorenz transforms, it becomes inescapably clear that gravitational force is nothing more than a manifestation of the localized effects resulting from the perturbation of the Zero Point energy field by primary spinors.

E. Cartan began to understand this just as Einstein was emerging into prominence with his General Theory and his formulations of quantum mechanics. Cartan's failure to understand the importance and role of spinors and the imposition of the Lorenz transforms on Maxwell's Electrodynamics Quaternions, served to (1) deprive the standard model of any notion that underlying stress vectors which operate at the primary level to define the attributes of all derivative field effects, and (2) level the topology of all subsequent mathematical expressions in such a way that the underlying dynamics [e.g., time domain energetic oscillations in photons, perturbations of the Zero Point resulting in the Heavyside manifestations, scalar manifestations of non-local/non-linear field effects, etc.] were simply paved over. As a result, the current model of physics is so severely crippled that it cannot accommodate the phenomena which have been demonstrated by Akimov, Shipov and many, many others over the past 150 years.

The issue your message focuses on is the phenomenon of reduction of inertial mass as a function of gyroscopic oscillation [spinning things fall slower toward the center of the planet]. The mitigation of localized gravitation field effects by massive spinors can be explained when discussed in the context I have tried to describe. Gravitational force is a manifestation of scalar-level spinor behaviors. When a massive object [anything larger than a single atom, defined by classical Newtonian physics and Einstein's model as a massless point operating in a vacuum as it becomes contiguous to another such point, while spinning at a quantum rate] is spun to a quantum level, three things occur simultaneously:

(1) The spinning perturbs the Zero Point at a local address in such a way that the local address becomes highly ionized. This ionization is manifest by propagation of a non-linear but localized field effect and the liberation of photons and electrons. Since few in the West have ever developed a reliable means of measuring such things [principally because the phenomenon itself is specifically prohibited by the Standard Model of physics] we are left with relatively arcane means of detecting and measuring the attributes associated by such a field. More on this in a moment.

(2) The photons and electrons freed by this localized spinning instantly migrate to the outer edges of the localized scalar field effects envelope, thus polarizing the local address in L3. The work of Viktor Schauburger perfectly demonstrates this phenomenon. Moray King has attempted to explain this effect by suggesting that the spinning somehow propagates an electromagnetic field which is parallel to the local-linear gravitational B field, but this misses the point. What is more correct, I believe, is to suggest that the liberation of photons and electrons created by angular momentum of the spinor reaches a critical point beyond which the localized manifestation of the gravitational effect is simply mitigated by definition. The foil lift bodies pictured in Infinite Energy magazine and demonstrated by Jean-Louis Nadeau on his website in France demonstrate how powerful this mitigating effect is.

(3) The entire envelope surrounding the localized spinor becomes polarized in a way that redefines what the Standard Model of physics has come to define as "inertial mass" by altering the point of criticality which normally operates at the scalar potential. Bak's treatise on criticality in complex, open, self-organizing systems provides the simple, elegant insight into how this process works at all scales. The aggregation of fractally-generated derivative masses [which we see as "physical objects" in L3] is forced to operate in a localized address when the entire aggregation [call it an object] is caused to spin as an assembly. This redefines the address [locale] in which the scalar derivative field effects are manifested relative to the larger field [defined by the larger address defined by the planet]. This is interpreted as a mitigation of the localized gravitational field effect exerted by the planet relative to the smaller, more finite field in which the spinor operates.

Experimental evidence clearly shows that when the ionization in the localized field reaches a critical, self-sustaining point [ala Bak et al], the spinning object "moves" [manifests a vectored velocity both at the scalar level and through each successive scale, to include the entire object and a portion of the field effects range beyond the L3 bounds defining the object itself] in the direction opposite to the locus of the larger regolith force – that is, away from the center of the larger mass and towards a self-organized lower steady state. When the polarity of the ionization field can be defined by direct mitigation, the object can be caused to move away from the negatively polarized surface and in the direction of the positively polarized surface. This field effect has been used to support and optimize the operating characteristics of the B-2 Stealth bomber, for example, and other weapons systems developed by the military. It's a known phenomenon with a known set of attributes; so this is not a mystery.

Having said all this, let's move on to the issue of torsion fields. In my research and writings, I have made it clear that the torsion field [as it is called by Akimov, et al and referred to in the current literature] is simply the non-local, non-linear derivative field effect which operates at all scales, contemporaneous with the manifestation of local-linear field effects. There are, in point of fact, no "primary" field effects. That much of the myth must be dispensed with at the outset. All field effects are derivatives of the same scalar potential and all operate contemporaneously at all scales all the time, everywhere. Bak's work makes this conclusion absolutely inescapable.

So how do we create a controllable torsion field which can be empirically validated, quantified, replicated and demonstrated under independent trials with others? How do we harness such field effects to perform useful functions which advance the state of the art? I don't pretend to have all the answers, but I have some notions about it which I am happy to share with anyone who is interested in having the conversation. We have some tantalizing clues to work with, the results of excellent, impeccably documented experimental work conducted by others. Three pieces of work seem to have primary relevance to this discussion.

- (1) The CERN/Gisin Non-local field effects experiments conducted in Geneva
- (2) The Phantom DNA Effect, as identified and verified by V. Poponin, et al
- (3) The accumulated experimental work described by Akimov, Shipov, et al

What this work tells us is this: Information propagated via the torsion field operates instantaneously without regard to time or space. It is holographic at all scales. Gisin's experimental verification of Bell's Uncertainty principle has been repeatedly validated to conduct information between separated electron-positron pairs at least 10 to nine times  $C$  (speed of light). Therefore, in the most real and present sense,  $C$  is not [and never has been] the upper limit to information propagation velocities. Einstein was mistaken, and the Standard Model (of physics) is wrong.

Next, it means that non-local/non-linear field effects are a part of the natural order. Each living cell propagates a non-linear/non-local field [a torsion field by definition] which manifests all the attributes of the scalar field effects described by Akimov and Tom Bearden. Poponin experimentally verified that the Phantom DNA Effect extends in  $L3$  at a distance of at least one meter from the cell. He verified that such fields exert a profound organizing effect on the way biological systems become physical and operate in accordance with the requirements of complementarity. And, most usefully, such fields couple with certain carefully controlled frequencies and waveforms of laser light, to exert amplified effects ranging at least three orders of magnitude above the norm.

This work, as much as any other, gives us a huge insight into the way torsion fields operate. Not surprisingly, photons serve as the intermediating link between local/linear and non-local/non-linear field effects in Minkowski 4 space. Information contained in one aspect of physicality [local linear] can be detected, measured, modulated, input and extracted, amplified and in other ways exploited via the interference fringe attributes manifest in laser light. The Fermi-Pasta-Ulum Lattice [a way of expressing non-locality in terms of a third order derivative] provides a means by which such information can be identified and managed in the presence of a localized torsion field. The coupling constants between the laser photons and the torsion field are known and the effects associated with the modulation of the field can be carefully measured and manipulated – this is what has been needed for us to conduct a carefully disciplined exploration of this phenomenon in the laboratory. And we've been using it to do some useful work.

Because the Soviet Academy of Sciences has known for more than 30 years how to create and manipulate torsion fields to perform useful work, the scientists and technicians at the I.N. Frantsevich Institute for Problems of Materials Science (IPMS) in Kiev, Ukraine have been able to create entirely new sciences, technologies and materials which are simply not known in the West. I have seen them, handled them, watched them being created, understand how they were engineered and worked for 15 years to find ways to commercialize them. That's what "The Anthropos Files" is all about. I'll give you an example that is illustrative and, I believe, compelling.

In 1992, I watched a demonstration conducted by two technicians from IPMS in the board room of the law firm of O'Melveny and Meiers in Newport Beach, California. They attached a piece of flat black material to a small clip suspended from a conventional chemistry lab test tube stand [single metal pole extending vertically from a cast iron base]. To the corners of this material they attached the leads from a conventional 9-volt battery, using small alligator clips, one attached at each corner. Within 20 seconds, the top surface of the tarot-card sized flat black card became covered with a layer of ice crystals. Within 30 seconds, a continuous cloud of frozen ice crystals [looking for all the world like the vapor which rolls out of a bucket of water when a piece of dry ice is dropped into it] began to pour off the upper surface of the suspended card and onto the top of the 20-foot long board room table. Within a minute, the cloud entirely covered the board table and was pouring off the edge of the table onto the laps of the people who were seated around the table watching this demonstration.

When the technician offered to allow someone to actually hold the "card" in their hands, everyone who had seen a demonstration of the Peltier Effect refused – in our materials science lexicon, Peltier materials get very cold on one surface but demonstrate compensating heat on the opposing side. So when the demonstrator disconnected the card and held it in his hand, everyone who thought they knew what was happening gasped. With a digital thermometer, the demonstrator measured the surface temperature of the opposing side of the card – it was 72 degrees F. The top surface of the card was -68 degrees F. It was extracting heat from the local address and dissipating it non-locally in the presence of a very small activating DC voltage field with sufficient efficiency to freeze free-standing CO<sub>2</sub> from the atmosphere.

In a different demonstration, IPMS scientists provided us with a material they referred to as an "energy accumulator." In their frame of reference, this material operated by capturing free electrons and warehousing them in energy wells defined by the upper and lower surfaces of a material they referred to as a "one-dimensional" crystalline lattice. The lattice was made of atomically engineered carbon, intercalated with atoms of other materials, in a way that created a series of virtually mono-molecular carbon films which were folded back and forth on top of each other. When viewed under our electron microscope, this material looked like an endless field of egg-carton peaks and valleys. When the peaks from the lower layer were brought into contact with the peaks from the upper layer, a virtual energy well was created, within which electrons were reposed while waiting to be directed elsewhere. This solid-state energy accumulator device demonstrated an energy density 1.4 times greater than gasoline. INEEL's report showed output results varying from 840-1024 watt-hours per kilogram over extended tests.

When we submitted the six energy accumulator devices to INEEL and DARPA for examination and analysis, an important discovery was made. Scientists at INEEL weighed the battery containers [we sent six Diehard battery containers to IPMS because they had no containers to put their materials in] fully charged, they were significantly more massive than when they were fully discharged. Think about this carefully – this created a tremendous reaction from DARPA. The US government attempted to classify and confiscate these devices and would have succeeded except for the fact that our attorneys succeeded in disabusing them from this course of action by pointing out that this stuff belonged to another government-owned laboratory in a foreign country. The implications of this discovery are extremely important because this material, manufactured in the presence of precisely modulated torsion fields, proves that  $E$  does not equal  $MC$  squared. Never did. In this instance, energy [as represented by nothing other than electrons sitting still within the crystalline lattice of a carbonized film] manifests itself as measurably massive while sitting at rest. Again, Einstein was mistaken, and the Standard Model (of physics) is wrong. In this case,  $E$  equals  $M$  with no velocity at all.

So where does all this leave us? It is useful and reasonable to suggest, in the context of this information, that the Standard Model falls far short of describing how Nature works at any scale because it fundamentally ignores salient facts and unreasonably distorts others. We know how to create torsion fields. We know how to modulate information into them and extract information from them. We know what they are, how they work and how to control and manipulate them. In my book manuscript "Seeing Past The Edge," I have distilled the work of many others to create a description of what works and does not work in matters concerning torsion and the field effects which result from it.

I have been working off the grid for more than a decade to put this together, remaining largely anonymous by choice while preparing the ground work. It is now time for this information to find its way into the world so we can harness what we have learned to make the world a better place. I am dedicated to facilitating the evolution of this work until the day I pitch my tent before the Great Divide for the last time. I am interested in working with you and your associates to make this happen. The option is yours.

Thanks for getting back to me.

David G. Yurth

## **Nevada-Based Russian Invention Incubator**

Russia and its former Soviet Union partners such as Ukraine over the years deliberately built up and nurture a large, highly productive scientific and engineering establishment. To illustrate, the former Soviet Union reportedly brought to the aforementioned IPMS in Kiev from all over the Soviet Union 3,500 of their finest scientists and inventors. They were then told to “throw the book away” and invent new materials. Torsion field communications project leader David G. Yurth, Ph.D., has strong personal ties to the IPMS. My “Advanced Self-Powered Electric Vehicle Concept” includes Dave’s report on the basalt/carbon fiber foam for the vehicle’s body/frame that was developed by the IPMS. I myself have been in email contact with a few Russian scientists and inventors.

Unfortunately, Russia’s many talented inventors face daunting obstacles when attempting to commercialize their inventions. Russia’s 85% income tax discourages accumulation of private capital for investment. The Russian government’s favoring and subsidizing of military applications over commercial applications of inventions is another drain on venture capital. A dearth of trained and experienced managerial talent as a consequence of nearly a century of socialism is still another obstacle to Russian inventors seeking to manufacture and commercially market their inventions.

Experienced entrepreneurs hardly need reminding that a commercially successful enterprise requires a business plan which makes sense and is doable, a product or service which is in demand, qualified people, enough money to sustain the enterprise until it is profitable, and integrity. If at least one of these five ingredients is inadequate, forget it.

Judging from the title of this chapter, it would initially appear that an incubator, perhaps based in Nevada with a satellite in Utah, is being proposed for helping Russian inventors commercialize their inventions. During a period spanning fall 1999 and winter 2000, there occurred in Henderson, Nevada an adventurous, perhaps some might say even daring attempt by me, Gary Vesperman, and a team of half a dozen highly competent technical people, to help one Russian inventor commercialize his hydromagnetic dynamo, a patented new electrical generator.

I consider torsion field communications potentially the second most valuable of all the inventions I know about. Potentially the most valuable invention is the fuel-less, emission-free, operator and maintenance-free, large-scaled hydromagnetic dynamo – *if it really works as its inventor claims*. (For a detailed description, see the end of my compilation of "Advanced Technologies for Foreign Resort Project" which is linked at <http://www.fortunecity.com/greenfield/bp/16/advantech.htm> and [www.padrak.com/vesperman](http://www.padrak.com/vesperman).)

Analysis of the experience gained from working with this particular inventor, Russian physicist Oleg V. Gritskevitch, who knew very little English, has determined that what is really needed in addition to a typical invention incubator is an expanded support environment tailored specifically to the needs of Russian inventors.

Capitalizing on a foundation of strong ties to some of Russia and its former satellites' best scientists and inventors, it is suggested that a Nevada-based Russian invention incubator could build up a unique niche of incubating Russian inventors by offering an array of support services tailored to their needs. The Las Vegas area already is a robust melting pot of foreign-speaking visitors and residents. The extremely large local convention industry offers a convenient opportunity for thinly capitalized startup companies to cheaply market specialized inventions when pertinent conventions are being held. Nevada's incubator of Russian inventions should include the following resources:

- An extensive research library of Russian scientific periodicals and books.
- A modest support staff of on and off-site Russian-speaking secretaries, typists, machinists, draftspersons, programmers, engineers, etc.
- Direct communication links with Russian scientific research institutes and engineering companies in partnership with the University of Nevada-Las Vegas.
- A local "little Russia" colony comprising of the following:
- One hotel identified as having among its employees a few Russian-speaking maids, desk people, etc.
- One Russian restaurant staffed with a few Russian-speaking waiters and hosts and with menus in both Russian and English featuring mostly Russian recipes.
- One apartment complex identified having among its staff a Russian-speaking manager and Russian-speaking custodians.
- Local doctors, nurses, and dentists identified as being able to speak Russian. (My partners and I worried as to what to do in case Oleg got sick or injured.)
- A database of clearly identified miscellaneous support services such as Russian-speaking plumbers, electricians, beauticians, police, etc.
- Expert translation services.
- Access to large amounts of venture capital, one source of which can be seen on the Web site, <http://members.aa.net/~russia/capital/palcapital3.html>, of the "Russian Venture Capital Company of America". This Web site also has many details and tips to draw upon for setting up a successful incubator of Russian inventions.
- Experienced incorporators of Nevada corporations.
- Experienced business plan writers.

Familiarity with Russian inventions indicates that Russian inventors have accumulated a portfolio of significant and sometimes even astonishing inventions based on science that in some fields such as the torsion field has advanced ahead of Western science. Yet their potentially useful and in some instances lucrative inventions lie moribund because of Russia's severe shortage of investment capital and competent managers. Furthermore, many of Russia's inventors would be open to emigrating in order to escape the miseries of Russia's collapsing infrastructure.

Would the commercial potential of Russian inventions justify the extra cost of a Nevada incubator of Russian inventions? Oleg's patent attorney, who educated himself in the United States and then returned to his native Russia, maintains a web site of Russian inventions. I have read the list, although not recently, and some of them look technically very advanced and potentially of economic significance. The Russian patent attorney's list and a few other Russian inventions I know about appear to be the visible tip of a massive iceberg of mostly submerged Russian inventive genius. Oleg Gritskevitch himself has about 70 Russian patents. The previous chapter titled "Making Exotic New Materials with Torsion Field" offers additional examples of advanced Russian/Ukrainian inventions that appear to be deserving of large-scaled commercialization.

## **Is Holy Ghost's Influence Transmitted via Torsion Field?**

Gary C. Vesperman

The Bible, Book of Mormon, and similar ancient sacred writings contain numerous stories and claims that are not easy to explain on the basis of the perceived reality of humans. Yet modern scientific, historical, geological and archaeological researchers occasionally are able to deduce plausible theories and explanations for some of these weird reports. The following is my suggestion for the mechanism of one such ancient mystery:

The Church of Jesus Christ of Latter Day Saints publishes a book, Gospel Principles, which tries to explain the Bible and the LDS Church's own sacred texts such as the Doctrine and Covenants and Book of Mormon. The Gospel Principles has a chapter titled "The Holy Ghost" which has this remarkable claim: "The Holy Ghost is in one place but whose influence is felt *everywhere*." (Italics added.)

Early summer of 2003, some astronomers reported that the number of stars in our Universe, according to their observations and calculations, exceeds the number of grains of sand on all the world's beaches and deserts. For the Holy Ghost to be able to simultaneously monitor and influence human and possibly other human-like beings everywhere in the Universe clearly requires a medium of transmission altogether different from the relatively slow velocity of electromagnetic field propagation. My discussion focuses on transmission of the Holy Ghost's influence possibly via the torsion field. First we read the following article on the holographic universe:

### **Creation – Holographic Universe**

<http://crystalinks.com/holographic.html>

#### **The Universe as a Hologram**

- Author Unknown

In 1982 a remarkable event took place. At the University of Paris a research team led by physicist Alain Aspect performed what may turn out to be one of the most important experiments of the 20th century. You did not hear about it on the evening news. In fact, unless you are in the habit of reading scientific journals you probably have never even heard Aspect's name, though there are some who believe his discovery may change the face of science.

Aspect and his team discovered that under certain circumstances subatomic particles such as electrons are able to instantaneously communicate with each other regardless of the distance separating them. It doesn't matter whether they are 10 feet or 10 billion miles apart.



Somehow each particle always seems to know what the other is doing. The problem with this feat is that it violates Einstein's long-held tenet that no communication can travel faster than the speed of light. Since traveling faster than the speed of light is tantamount to breaking the time barrier, this daunting prospect has caused some physicists to try to come up with elaborate ways to explain away Aspect's findings. But it has inspired others to offer even more radical explanations.

University of London physicist David Bohm, for example, believes Aspect's findings imply that objective reality does not exist, that despite its apparent solidity the universe is at heart a phantasm, a gigantic and splendidly detailed hologram.

To understand why Bohm makes this startling assertion, one must first understand a little about holograms. A hologram is a three-dimensional photograph made with the aid of a laser.

To make a hologram, the object to be photographed is first bathed in the light of a laser beam. Then a second laser beam is bounced off the reflected light of the first and the resulting interference pattern (the area where the two laser beams commingle) is captured on film.

When the film is developed, it looks like a meaningless swirl of light and dark lines. But as soon as the developed film is illuminated by another laser beam, a three-dimensional image of the original object appears.

The three-dimensionality of such images is not the only remarkable characteristic of holograms. If a hologram of a rose is cut in half and then illuminated by a laser, each half will still be found to contain the entire image of the rose.

Indeed, even if the halves are divided again, each snippet of film will always be found to contain a smaller but intact version of the original image. Unlike normal photographs, every part of a hologram contains all the information possessed by the whole.

The "whole in every part" nature of a hologram provides us with an entirely new way of understanding organization and order. For most of its history, Western science has labored under the bias that the best way to understand a physical phenomenon, whether a frog or an atom, is to dissect it and study its respective parts.

A hologram teaches us that some things in the universe may not lend themselves to this approach. If we try to take apart something constructed holographically, we will not get the pieces of which it is made, we will only get smaller wholes.

This insight suggested to Bohm another way of understanding Aspect's discovery. Bohm believes the reason subatomic particles are able to remain in contact with one another regardless of the distance separating them is not because they are sending some sort of mysterious signal back and forth, but because their separateness is an illusion. He argues that at some deeper level of reality such particles are not individual entities, but are actually extensions of the same fundamental something.

To enable people to better visualize what he means, Bohm offers the following illustration:

Imagine an aquarium containing a fish. Imagine also that you are unable to see the aquarium directly and your knowledge about it and what it contains comes from two television cameras, one directed at the aquarium's front side and the other directed at its side.

As you stare at the two television monitors, you might assume that the fish on each of the screens are separate entities. After all, because the cameras are set at different angles, each of the images will be slightly different. But as you continue to watch the two fish, you will eventually become aware that there is a certain relationship between them.

When one turns, the other also makes a slightly different but corresponding turn; when one faces the front, the other always faces toward the side. If you remain unaware of the full scope of the situation, you might even conclude that the fish must be instantaneously communicating with one another, but this is clearly not the case.

This, says Bohm, is precisely what is going on between the subatomic particles in Aspect's experiment.

According to Bohm, the apparent faster-than-light connection between subatomic particles is really telling us that there is a deeper level of reality we are not privy to, a more complex dimension beyond our own that is analogous to the aquarium. And, he adds, we view objects such as subatomic particles as separate from one another because we are seeing only a portion of their reality. Such particles are not separate "parts", but facets of a deeper and more underlying unity that is ultimately as holographic and indivisible as the previously mentioned rose. And since everything in physical reality is comprised of these "eidolons", the universe is itself a projection, a hologram.

In addition to its phantomlike nature, such a universe would possess other rather startling features. If the apparent separateness of subatomic particles is illusory, it means that at a deeper level of reality all things in the universe are infinitely interconnected.

The electrons in a carbon atom in the human brain are connected to the subatomic particles that comprise every salmon that swims, every heart that beats, and every star that shimmers in the sky.

Everything interpenetrates everything, and although human nature may seek to categorize and pigeonhole and subdivide, the various phenomena of the universe, all apportionments are of necessity artificial and all of nature is ultimately a seamless web.

In a holographic universe, even time and space could no longer be viewed as fundamentals. Because concepts such as location break down in a universe in which nothing is truly separate from anything else, time and three-dimensional space, like the images of the fish on the TV monitors, would also have to be viewed as projections of this deeper order.

At its deeper level reality is a sort of super hologram in which the past, present, and future all exist simultaneously. This suggests that given the proper tools it might even be possible to someday reach into the super holographic level of reality and pluck out scenes from the long-forgotten past.

What else the super hologram contains is an open-ended question. Allowing, for the sake of argument, that the super hologram is the matrix that has given birth to everything in our universe, at the very least it contains every subatomic particle that has been or will be – every configuration of matter and energy that is possible, from snowflakes to quasars, from blue whales to gamma rays. It must be seen as a sort of cosmic storehouse of "All That Is."

Although Bohm concedes that we have no way of knowing what else might lie hidden in the super hologram, he does venture to say that we have no reason to assume it does not contain more. Or as he puts it, perhaps the super holographic level of reality is a "mere stage" beyond which lies "an infinity of further development".

Bohm is not the only researcher who has found evidence that the universe is a hologram. Working independently in the field of brain research, Stanford neurophysiologist Karl Pribram has also become persuaded of the holographic nature of reality.

Pribram was drawn to the holographic model by the puzzle of how and where memories are stored in the brain. For decades numerous studies have shown that rather than being confined to a specific location, memories are dispersed throughout the brain.

In a series of landmark experiments in the 1920s, brain scientist Karl Lashley found that no matter what portion of a rat's brain he removed he was unable to eradicate its memory of how to perform complex tasks it had learned prior to surgery. The only problem was that no one was able to come up with a mechanism that might explain this curious "whole in every part" nature of memory storage.

Then in the 1960s Pribram encountered the concept of holography and realized he had found the explanation brain scientists had been looking for. Pribram believes memories are encoded not in neurons, or small groupings of neurons, but in patterns of nerve impulses that crisscross the entire brain in the same way that patterns of laser light interference crisscross the entire area of a piece of film containing a holographic image. In other words, Pribram believes the brain is itself a hologram.

Pribram's theory also explains how the human brain can store so many memories in so little space. It has been estimated that the human brain has the capacity to memorize something on the order of 10 billion bits of information during the average human lifetime (or roughly the same amount of information contained in five sets of the Encyclopedia Britannica).

Similarly, it has been discovered that in addition to their other capabilities, holograms possess an astounding capacity for information storage – simply by changing the angle at which the two lasers strike a piece of photographic film, it is possible to record many different images on the same surface. It has been demonstrated that one cubic centimeter of film can hold as many as 10 billion bits of information.

Our uncanny ability to quickly retrieve whatever information we need from the enormous store of our memories becomes more understandable if the brain functions according to holographic principles. If a friend asks you to tell him what comes to mind when he says the word "zebra", you do not have to clumsily sort back through some gigantic and cerebral alphabetic file to arrive at an answer. Instead, associations like "striped", "horse like", and "animal native to Africa" all pop into your head instantly.

Indeed, one of the most amazing things about the human thinking process is that every piece of information seems instantly cross-correlated with every other piece of information – another feature intrinsic to the hologram. Because every portion of a hologram is infinitely interconnected with every other portion, it is perhaps nature's supreme example of a cross-correlated system.

The storage of memory is not the only neurophysiological puzzle that becomes more tractable in light of Pribram's holographic model of the brain. Another is how the brain is able to translate the avalanche of frequencies it receives via the senses (light frequencies, sound frequencies, and so on) into the concrete world of our perceptions. Encoding and decoding frequencies is precisely what a hologram does best. Just as a hologram functions as a sort of lens, a translating device able to convert an apparently meaningless blur of frequencies into a coherent image, Pribram believes the brain also comprises a lens and uses holographic principles to mathematically convert the frequencies it receives through the senses into the inner world of our perceptions.

An impressive body of evidence suggests that the brain uses holographic principles to perform its operations. Pribram's theory, in fact, has gained increasing support among neurophysiologists.

Argentinean-Italian researcher Hugo Zucarelli recently extended the holographic model into the world of acoustic phenomena. Puzzled by the fact that humans can locate the source of sounds without moving their heads, even if they only possess hearing in one ear, Zucarelli discovered that holographic principles can explain this ability.

Zucarelli has also developed the technology of holophonic sound, a recording technique able to reproduce acoustic situations with an almost uncanny realism.

Pribram's belief that our brains mathematically construct "hard" reality by relying on input from a frequency domain has also received a good deal of experimental support. It has been found that each of our senses is sensitive to a much broader range of frequencies than was previously suspected.

Researchers have discovered, for instance, that our visual systems are sensitive to sound frequencies, that our sense of smell is in part dependent on what are now called "osmic frequencies", and that even the cells in our bodies are sensitive to a broad range of frequencies. Such findings suggest that it is only in the holographic domain of consciousness that such frequencies are sorted out and divided up into conventional perceptions.

But the most mind-boggling aspect of Pribram's holographic model of the brain is what happens when it is put together with Bohm's theory. For if the concreteness of the world is but a secondary reality and what is "there" is actually a holographic blur of frequencies, and if the brain is also a hologram and only selects some of the frequencies out of this blur and mathematically transforms them into sensory perceptions, what becomes of objective reality?

Put quite simply, it ceases to exist. As the religions of the East have long upheld, the material world is Maya, an illusion, and although we may think we are physical beings moving through a physical world, this too is an illusion.

We are really "receivers" floating through a kaleidoscopic sea of frequency, and what we extract from this sea and transmogrify into physical reality is but one channel from many extracted out of the super hologram.

This striking new picture of reality, the synthesis of Bohm and Pribram's views, has come to be called the holographic paradigm, and although many scientists have greeted it with skepticism, it has galvanized others. A small but growing group of researchers believe it may be the most accurate model of reality science has arrived at thus far. More than that, some believe it may solve some mysteries that have never before been explainable by science and even establish the paranormal as a part of nature.

Numerous researchers, including Bohm and Pribram, have noted that many para-psychological phenomena become much more understandable in terms of the holographic paradigm.

In a universe in which individual brains are actually indivisible portions of the greater hologram and everything is infinitely interconnected, telepathy may merely be the accessing of the holographic level.

It is obviously much easier to understand how information can travel from the mind of individual 'A' to that of individual 'B' at a far distance point and helps to understand a number of unsolved puzzles in psychology. In particular, Grof feels the holographic paradigm offers a model for understanding many of the baffling phenomena experienced by individuals during altered states of consciousness.

In the 1950s, while conducting research into the beliefs of LSD as a psychotherapeutic tool, Grof had one female patient who suddenly became convinced she had assumed the identity of a female of a species of prehistoric reptile. During the course of her hallucination, she not only gave a richly detailed description of what it felt like to be encapsulated in such a form, but noted that the portion of the male of the species' anatomy was a patch of colored scales on the side of its head.

What was startling to Grof was that although the woman had no prior knowledge about such things, a conversation with a zoologist later confirmed that in certain species of reptiles colored areas on the head do indeed play an important role as triggers of sexual arousal.

The woman's experience was not unique. During the course of his research, Grof encountered examples of patients regressing and identifying with virtually every species on the evolutionary tree (research findings which helped influence the man-into-ape scene in the movie *Altered States*). Moreover, he found that such experiences frequently contained obscure zoological details which turned out to be accurate.

Regressions into the animal kingdom were not the only puzzling psychological phenomena Grof encountered. He also had patients who appeared to tap into some sort of collective or racial unconscious. Individuals with little or no education suddenly gave detailed descriptions of Zoroastrian funerary practices and scenes from Hindu mythology. In other categories of experience, individuals gave persuasive accounts of out-of-body journeys, of precognitive glimpses of the future, of regressions into apparent past-life incarnations.

In later research, Grof found the same range of phenomena manifested in therapy sessions which did not involve the use of drugs. Because the common element in such experiences appeared to be the transcending of an individual's consciousness beyond the usual boundaries of ego and/or limitations of space and time, Grof called such manifestations "transpersonal experiences", and in the late '60s he helped found a branch of psychology called "transpersonal psychology" devoted entirely to their study.

Although Grof's newly founded Association of Transpersonal Psychology garnered a rapidly growing group of like-minded professionals and has become a respected branch of psychology, for years neither Grof or any of his colleagues were able to offer a mechanism for explaining the bizarre psychological phenomena they were witnessing. But that has changed with the advent of the holographic paradigm.

As Grof recently noted, if the mind is actually part of a continuum, a labyrinth that is connected not only to every other mind that exists or has existed, but to every atom, organism, and region in the vastness of space and time itself, the fact that it is able to occasionally make forays into the labyrinth and have transpersonal experiences no longer seems so strange.

The holographic paradigm also has implications for so-called hard sciences like biology. Keith Floyd, a psychologist at Virginia Intermont College, has pointed out that if the concreteness of reality is but a holographic illusion, it would no longer be true to say the brain produces consciousness. Rather, it is consciousness that creates the appearance of the brain – as well as the body and everything else around us we interpret as physical.

Such a turnabout in the way we view biological structures has caused researchers to point out that medicine and our understanding of the healing process could also be transformed by the holographic paradigm. If the apparent physical structure of the body is but a holographic projection of consciousness, it becomes clear that each of us is much more responsible for our health than current medical wisdom allows. What we now view as miraculous remissions of disease may actually be due to changes in consciousness which in turn effect changes in the hologram of the body.

Similarly, controversial new healing techniques such as visualization may work so well because in the holographic domain of thought images are ultimately as real as "reality".

Even visions and experiences involving "non-ordinary" reality become explainable under the holographic paradigm. In his book "Gifts of Unknown Things," biologist Lyall Watson describes his encounter with an Indonesian shaman woman who, by performing a ritual dance, was able to make an entire grove of trees instantly vanish into thin air. Watson relates that as he and another astonished onlooker continued to watch the woman, she caused the trees to reappear, then "click" off again and on again several times in succession.

Although current scientific understanding is incapable of explaining such events, experiences like this become more tenable if "hard" reality is only a holographic projection.

Perhaps we agree on what is "there" or "not there" because what we call consensus reality is formulated and ratified at the level of the human unconscious at which all minds are infinitely interconnected.

**If this is true, it is the most profound implication of the holographic paradigm of all, for it means that experiences such as Watson's are not commonplace only because we have not programmed our minds with the beliefs that would make them so. In a holographic universe there are no limits to the extent to which we can alter the fabric of reality.**

What we perceive as reality is only a canvas waiting for us to draw upon it any picture we want. Anything is possible, from bending spoons with the power of the mind to the phantasmagoric events experienced by Castaneda during his encounters with the Yaqui brujo don Juan. For magic is our birthright, no more or less miraculous than our ability to compute the reality we want when we are in our dreams.

Indeed, even our most fundamental notions about reality become suspect, for in a holographic universe, as Pribram has pointed out, even random events would have to be seen as based on holographic principles and therefore determined. Synchronicities or meaningful coincidences suddenly make sense, and everything in reality would have to be seen as a metaphor, for even the most haphazard events would express some underlying symmetry.

Whether Bohm and Pribram's holographic paradigm becomes accepted in science or dies an ignoble death remains to be seen, but it is safe to say that it has already had an influence on the thinking of many scientists. And even if it is found that the holographic model does not provide the best explanation for the instantaneous communications that seem to be passing back and forth between subatomic particles, at the very least, as noted by Basil Hiley, a physicist at Birbeck College in London, Aspect's findings "indicate that we must be prepared to consider radically new views of reality".

(End of holographic universe article.)

My compilation of "Advanced Technologies for Foreign Resort Project" which is in <http://www.padrak.com/vesperman> and <http://www.fortunecity.com/greenfield/bp/16/advantech.htm> touches on several topics which do not appear to be in full accordance with mainstream science. My paper includes this gem:

"Reiki. I almost cured someone terminally ill with cancer doing this a couple of years ago. I had a feeling I should go back and try again with another session, but didn't because I didn't know him (he was a friend of a friend), and a few days later he died from a pulmonary blood clot. But he did make an immediate and impressive short-term recovery. All I do is rub my hands together for a few seconds, close my eyes, mentally say to myself "The mind has no providence for limitations", open my eyes, and then lay my hands on the patient's problem area. If I can feel heat flowing through my hands, I know it is working. When the heat stops, I either quit or move to another area on the patient's body. I have cured elbow pain, headaches, and even my brother's shortness of breath for a short while.

Since 1989 when I learned Reiki, I have struggled to understand the underlying mechanism. I have repeatedly seen it work, but it's obvious Reiki's effects are hardly explainable by conventional science. Recently I finally picked up a clue from a French acupuncturist's report in [www.keelynet.com/keely/belizal.text](http://www.keelynet.com/keely/belizal.text). The ancient Egyptians were able to correlate different wave forms with different geometric shapes. There is an implication that objects can store and transfer between them, when touching, subtle forms of information. So possibly when an ill or injured person is touched by healthy people with positive minds, information is somehow transferred to be used for correcting damaged tissue.

Monarch butterflies are unique in that migratory information is passed from generation to generation. They are somehow able to fly north for the summer from their winter homes in Mexico and certain Central California coastal areas such as Monterey and Santa Cruz and then able to fly back to their winter homes, passing along precise migratory information from generation to generation.

It has been suggested that these butterflies' migratory information is somehow embedded in their genetic code. Another possibility is that their migratory information is accurately retained by their physical bodies in more subtle form, possibly in the halo that appears in Kirlian photography, as the Monarch butterflies reproduce again, again, and again for thousands of generations with absolutely no loss of migratory information.

If true, an even more startling speculation arises: Many of the ancient peoples have acquired beliefs (colored by various religious symbols and rituals) that people don't just die and that's the end of them. Instead, the information and memories accumulated within each person as a result of genetic heritage and his or her living a life are retained in a very subtle form not normally perceivable by people still living. Their information packages are sometimes called "spirits", "ghosts", or "souls". If the progression from Reiki healing and the association between waveforms and the shapes of objects to Monarch butterflies to a conscious being surviving the dying process is accepted, then perhaps we have physical evidence, however flimsy, of the existence of the soul."

(End of excerpt.)

At long last, thanks to Trevor Osborne's forwarding of the aforementioned article on the holographic universe (all the way from Perth, Australia via the wonderful Internet), it is now clear to me that every phenomenon I had touched on, including Reiki healing, the migration of the Monarch butterflies, and INCLUDING THE SURVIVAL OF OUR MINDS AFTER DEATH AS MANIFESTED BY NUMEROUS REPORTS OF NEAR DEATH EXPERIENCES, seems to be explainable by the theory of the holographic universe and the holographic mind.

I happen to be an almost consistently successful Reiki healer. I have healed headaches, people's colds, the aforementioned cancer case was a spectacular example, etc. I don't go out of my way to heal people and never charge for my "services". Two years ago, I was sitting in a bar in Salt Lake City with a friend who appeared to be uncomfortable. An inquiry revealed that he had back surgery some years ago. After a half-hour of my Reiki healing with my hands on his back, he was amazed to find himself feeling much less pain.

Some years ago I met a lady friend of a friend who had walked into a bar on crutches. I can't remember what was the matter with her knee. After an hour of holding her bad knee between my hands doing my Reiki mumbo-jumbo while we sat on bar stools and socialized, she walked out carrying her crutches! Even I was impressed.

February 2003 I met a man who had suffered chronic back pain for 20 years. After about 15 minutes or so of laying my hands on his lower back, he was delighted that his back pain was gone.

During a Mormon church conference September 21, 2003 I happened to sit next to a man, Robert ?, who had possibly fractured a finger playing football. For about an hour I held his injured finger between my hands (after of course mentally saying to myself "The mind has no providence for limitations."). He thanked me at the end of the conference for making his finger feel so much better. Interestingly, my hands felt quite hot at the beginning indicating a powerful flow of healing energy from my body to his finger. After about ten minutes, my hands noticeably didn't feel so hot.

The holographic mind theory's projection of reality on other objects and people perhaps helps me to understand more clearly what is happening when I seem to heal people with the absurdly simple Reiki technique. I remember from reading a book on Reiki more than ten years ago that Jesus Christ also used some form of Reiki healing with exceptional success.

The holographic universe theory seems to explain the extraordinarily high velocity of torsion field communications of at least one billion times the speed of light. Instead of a generator transmitting a torsion field signal to a receiver as in the case of radio and television which operate with electromagnetic fields moving at the speed of light, the correct analogy is that of two televised images at different angles of the same fish in an aquarium.



Winter 2003 I edited David Yurth's manuscript "Seeing Past The Edge" which examines in detail many of the consequences of the holographic universe theory. He also happens to be one of the developers of torsion field communications. Its 474 endnotes indicate his many years of extensive research.

The title of Chapter 9 is "The Torsion Field: Information Link to Infinity". This chapter's findings seem to explain exactly how the Holy Ghost's influence is felt everywhere. The Universe and all its phenomena arise from a universal causal field which is referred to as consciousness. There can not be any question that consciousness is inseparable from the most fundamental aspects of the world we live in. Plants have become regularly used as truth detectors in the Japanese criminal court system. Relations between nonliving liquid crystals and human consciousness have been documented. The attributes of consciousness become intrinsic to and inseparable from any model we can construct to describe how the world operates. Numerous carefully documented, often publicly repeated experimental results, demonstrate that nothing in this physical world operates without being effected at a fundamental level by consciousness.

Information contained in any single location in the Universe can be instantaneously obtained via the torsion field at any other remote location, regardless of the extent to which events are separated by time, space or distance. The Universe is an open, complex, quantum system, operating at all scales according to the dynamic forces that we have observed in both the microcosm and macrocosm. All phenomena in the Universe are viewed as manifestations of information.

One of my projects is tracking down the origin of the human species. I reject the theory of evolution because it has too many obvious flaws. All one has to do is look at a fellow human and notice a preponderance of intelligent design such as the hairless forehead and even exquisitely precise engineering characterized by eyes and ears. When I was a kid living in Wisconsin's north woods, I particularly noticed that the red mark on red-winged black birds couldn't possibly be the result of random evolution undirected by higher intelligence.

The cheetah is the only large animal found to be genetically identical based on DNA testing of 50 specimens. The cheetah may well be a relatively recently introduced new species. The speedy cheetah combines the features of cats and dogs – the only such animal on earth.

Genetic, linguistic, and geological evidence all independently indicate that a few humans were created as spectacularly engineered holographic manifestations of the underlying reality by superior intelligence and placed on Planet Earth 200,000 years ago.

The reference I have for the finding by geneticists that humans started 200,000 years ago is in <http://www.nexusmagazine.com/articles/darwinism.2.html>.

The reference I have for the independent conclusion by linguists that humans *also* began 200,000 years ago is in the Hammond Atlas of the World, by Hammond Incorporated 1995, ISBN 0-8437-1175-2, the chapter on Languages and Religions, page 22. The pertinent statement is "Some linguists theorize that all people – and all languages – are descended from a tiny population that lived in Africa some 200,000 years ago."

The reference I have for the independent similar conclusion by geologists is in Doug MacGougall's book "Frozen Earth; The Once and Future Story of Ice Ages" published 2004 by University of California Press, ISBN 0-520-23922-9, the chapter on Ice Ages, Climate, and Evolution, page 193. The pertinent statement is "Several species of *Homo* that we know about appeared and disappeared over the past 2.5 million years before *Homo Sapiens* finally arrived on the scene, probably between 100,000 and 200,000 years ago."

Next time you shop in a supermarket produce department, take a few minutes to appreciate the creativity that went into the genetic engineering of each of the types of fruits and vegetables. When I did that a couple of years ago, I was dazzled and overwhelmed by the variety and originality of their beautiful designs of texture, taste, color, etc. I profoundly admire the artistic and precise genetic engineering required to make delicious and nutritious figs, watermelons, oranges, apples, bananas, potatoes, celery, cauliflower, string beans, squash, corn, peas, dates, beans, artichokes, lettuce, tomatoes, okra, walnuts, peas, anise, parsnips, basil, garlic, onions, cucumbers, bell peppers, beets, carrots, turnips, pears, strawberries, blueberries, apricots, leeks, spinach, raspberries, jicama, blackberries, cantalopes, wheat, bullberries, etc. Structural engineers particularly admire the cleverly designed strength and rigidity of the otherwise flimsily thin-shelled walnut.

My supermarket produce department shopping experience since then has never been quite the same.

The evidence presented in <http://escribe.com/science/keelynet/m15932.html> suggests that the moon is a hollow artificial satellite. My hypothesis is that the moon's interior is an enormous laboratory for engineering Planet Earth's millions of species of plants and animals.

Where is the entrance to the moon's interior? At this time, is there anyone home? How loud are the burglar alarms? (Am I kidding?) Are there any high-resolution photographs of the moon's surface which indicate artificial construction such as rectangular grids?

Ferrying new species of plants and animals from Earth's moon to Planet Earth and dropping them off into suitable habitats would require spaceships to protect them from the harsh environment of space. One other possible purpose of visiting unidentified flying objects from outer space, if UFO sighting reports are true, could simply be to occasionally census millions of species and to forecast species population trends, interactions, and balances.

It fascinates me to try to visualize those very first humans being created in a moon lab and then stepping off a spaceship onto the ground in an African jungle or meadow. They had to know what was going on. Did they arrive naked with no tools and no education and were told to figure out for themselves what to eat, how to avoid being eaten by lions, etc? Did they come with a spoken language already taught to them?

The chapter of my aforementioned compilation of advanced technologies titled “Ethereic Weather Engineering” includes this paragraph: “The weather control box is termed “passive” because it takes about a half-day for the weather to react in a large circle of several miles in radius as compared to the half-hour for several miles in radius of weather to react to the rotating metal objects. In the awesome demonstration of the weather control box I saw in the Midwest, an otherwise cloudless day went completely cloudy from horizon to horizon in about an hour, after a buildup of several hours in the morning. *I could even see lines or bands in the clouds that were possibly caused by the horizontal aluminum sidings of the garage inside of which the weather control box was located.* Then the magnets were reversed, and the clouds had dissipated by the end of the afternoon. I was overwhelmed by seeing, for the first time, etheric weather engineering. It was simply magnificent.” (Italics added.)

Chapter 9 of Dr. Yurth’s Seeing Past The Edge manuscript, “The Torsion Field: Information Link to Infinity”, has a three-page listing of torsion field attributes (see last chapter below) including “Torsion fields cannot be screened by any known materials except aluminum, nor any known combination of materials or fields”. I saw the weather control box demonstration several years ago. But it wasn’t until I had edited Dr. Yurth’s manuscript and came across that aluminum blocks the torsion field did I understand why the aluminum sidings were causing cloud patterns in the sky.

I need a beautiful woman as a volunteer. Notice how she is so exquisitely designed. She can sing beautiful songs. Her hair is neatly divided from a completely hairless forehead. Her eyes and ears operate with the highest engineered precision. If I squeeze and pinch her, she seems to be a solid female human, doesn't she? No, she is not. She instead is really a hologram. She can heal other people by simply laying her hands on them. That is, her "mind has no providence for limitations". She can see submarines in the ocean. She can read other people's minds and past life history. She can predict the future. Her mind and senses are intimately connected with me, everyone of you, everything else in the universe, and with the Holy Ghost.

Finally, the holographic mind theory, as so thoroughly explained further and documented in Dr. Yurth's unpublished book "Seeing Past The Edge", offers two fundamental lessons for her as she goes about her daily life of the utmost importance: First, careful scientific research proves that her mind and senses really will survive death. Second, her acts of kindness and unkindness to her fellow human beings, and perhaps even her pet animals and plants, will be remembered by them for all eternity.

(A public presentation of this topic can be enhanced by placing on a table two TV cameras, two TV monitors, and a square or rectangular aquarium containing just one fish.)

(What it is about aluminum, and only the element aluminum, that stops the torsion field is due to aluminum's unique nano-scaled spin structures.)

## **Etheric Weather Engineering**

(The following is a copy of the "Etheric Weather Engineering" chapter in my aforementioned compilation of "Advanced Technologies for Foreign Resort Project" which is in <http://www.padrak.com/vesperman> and <http://www.fortunecity.com/greenfield/bp/16/advantech.htm>.)

Etheric weather engineering is certainly one of the more spectacular products of the international "underground" science network. Unbelievable as it may seem, what looks like an ordinary tin can or handleless frying pan slowly being turned by an electric motor, in less than a half-hour, can cause heavy rain within 10 miles under conditions of high barometric pressure. (I have a video which shows about 20 demonstrations of etheric rain making.) I personally have seen etheric weather engineering effects at least twice in Las Vegas and twice in the Midwest.

So what is the secret of this crazy thing called "etheric weather engineering"? To begin understanding this most remarkable phenomena, we first take a look at just what is the "ether":

Sound comprises of oscillating waves traveling through water, air, and solid matter. Light propagates through space also as a wavelike phenomenon having frequency and wavelength. Over a century ago, some physicists postulated that light is a form of electromagnetism which travels as an oscillating wave through a medium they termed "ether". The famous Morley-Michelson experiment around that time determined that the speed of light is constant. So therefore, it was thought, there can not be an ether.

Subsequently, physics was led on a wild goose chase. For example, the mathematics of Einstein's famous theories of relativity are mostly based on the assumption that the speed of light is constant. Astronomers commonly believe that the universe started with a big bang and is still expanding because the speed of light is thought to be constant.

It has been claimed that the physics of electromagnetism and gravity as presently taught in academia has over 20 serious flaws. Actual measurements with modern instruments have shown that the speed of light varies with both direction and time. (Morley and Michelson erred in measuring the speed of light with both interferometers in the horizontal plane. They should have instead placed one interferometer in the horizontal plane, i.e., orthogonal to gravity, and the other interferometer in the vertical plane, i.e., parallel to gravity.) Actual measurements of the speed of light as it varies by as much as 5 miles per second over time show that the ether is not static but, as the earth travels through space, seems to surge and ebb with both time and orientation with respect to the stars.

Contemporary physics does not answer some of the fundamental questions of magnetism and gravity. For example, just how do magnets attract and repel? What is gravity? How can magnets under specialized conditions produce anti-gravity? What is inertia?

The consensus of some physicists is that two basic changes need to be made to the theory of physics. The speed of light is no longer to be assumed constant. The other change is that admitting the existence of the ether helps to explain many physical phenomena not otherwise satisfactorily explainable by conventional mainstream physics. For example, some physicists are now claiming that the earth's relatively weak gravitational "pull" is actually the ether pushing objects such as the moon, satellites, and people into the shadow formed by the earth on the ether.

Etheric energy, also sometimes called "zero point electromagnetic radiation" and "vacuum field energy", is known as an energy that fills the fabric of all space. Technically, the etheric energy results from an electric flux which flows orthogonally to our perceived dimension or reality.

The energy density of the ether is essentially incomprehensible. The mass equivalence of etheric energy has been calculated by physicists to be on the order of  $10^{93}$  (may not be correct) grams per cubic centimeter using Einstein's famous equation  $E = mc^2$ . To put etheric energy density in perspective, Nobel Laureate Richard Feynman and one of Einstein's protégés, John Wheeler, have calculated that there is more than enough energy in the volume of an empty coffee cup to evaporate all the world's oceans! We fail to easily recognize this humongous energy field as it is analogous to trying to weigh a beaker of water deep underneath the ocean's surface.

Dan A. Davidson recently published a book "Shape Power: A Treatise on How Form Converts Universal Aether into Electromagnetic and Gravitic Forces and Related Discoveries in Gravitational Physics" reporting on his many years of measuring and studying the effects of the geometry of objects on the ether. In his book he explains how geometric forms, for example the famous "pyramid power", convert etheric energy into electromagnetic and gravitic forces.

Etheric weather engineering researchers not only claim but have demonstrated many times that precisely machined metal objects similar in shape to cones, tin cans, handle-less frying pans, etc., when slowly turned by an electric motor (but not simply rotated on the axis of their hollow interiors), bore holes in the ether and cause weather upsets and changes. Only by linking the enormously high energy density of the ether with etheric hole boring can the disproportionately immense leverage of small objects upon the weather be understood.

The foregoing is referred to as "active" etheric weather engineering. There is also a "passive" version which generally comprises of a box about two feet high, wide, and deep. The tops, bottoms, and sides are about an inch or so thick and comprise of a thick layer of electrical insulation sandwiched between two thin layers of an electrically conductive material such as aluminum foil. Pieces of a wrecked RV camper's foam shell sometimes have been used.

Along the four inside edges around the bottom of the box are four magnets. Each magnet is placed in the center of each inside edge. To make rain, the polarities of the magnets are set one way, and to cause fair weather, the magnets are reversed. (I have actually seen this demonstrated in the Midwest.) On the center of the bottom of the box is set a truncated concrete cone about a foot high and a little over a half-foot in diameter. The concrete contains some special materials including mono-atomic gold and is sometimes wetted.

I stuck my head inside the box and could detect a faint mustiness. The experimenter thinks there is something like 20 megawatts of etheric power vertically streaming through the box.

The weather control box is termed “passive” because it takes about a half-day for the weather to react in a large circle of several miles in radius as compared to the half-hour for several miles in radius of weather to react to the rotating metal objects. In the awesome demonstration of the weather control box I saw in the Midwest, an otherwise cloudless day went completely cloudy from horizon to horizon in about an hour, after a buildup of several hours in the morning. I could even see lines or bands in the clouds that were possibly caused by the horizontal aluminum sidings of the garage inside of which the weather control box was located. Then the magnets were reversed, and the clouds had dissipated by the end of the afternoon. I was overwhelmed by seeing, for the first time, jaw-dropping etheric weather engineering. It was simply magnificent.

It has been suggested that the precision of etheric weather engineering could possibly be increased by using both passive and active forms of etheric weather control in a mode of operation similar to alternately pressing the gas and brake pedals of a vehicle.

Some of America’s Indian tribes were able to break up droughts by dancing counter-clockwise around a circle, or to stop rain by dancing clockwise around a circle. To illustrate, the summer of 1931 Nevada was suffering through a drought. An elderly Shoshone Indian, Wagon Jack, suggested to the tribal members living in the vicinity of Austin, Nevada that they devote some time to a rain dance. With considerable skepticism, Indians from all over central Nevada showed up beginning August 14 for continuous rain dancing plus of course feasting and political meetings. On August 19, the skies clouded over and rain began coming down in torrents. After four days of heavy rainfall, flooding caused extensive damage. (Nevada Historical Society)

I remember reading another story when during a severe two-year California drought during the mid-1970’s, an environmental group in San Francisco just for fun decided to hold a rain dance in nearby Marin County. They had to cut it short because it started raining! Of course, I didn’t understand then what was really happening and why.

Etheric weather engineering research Trevor James Constable has produced a video “Etheric Weather Engineering” on his weather engineering experiments. Thomas J. Brown has authored a book on etheric weather engineering titled “Loom of the Future: The Weather Engineering Work of Trevor James Constable”.

It was reported in Brown’s book that in September 1994, Hurricane Iniki was bearing down on Honolulu. Constable’s ship happened to be located between the hurricane and Honolulu so he was able to divert Iniki. Unfortunately, the hurricane ended up damaging the island of Kauai instead.

Installing local etheric weather engineering capabilities, probably under contract to an etheric weather engineering researcher, should be a relatively trivial expense. One weather control machine or box should be able to cover the entire resort area. By being able to cause rain or sun on demand, the resort project could achieve a competitive advantage.

I do not know whether local weather control, set to sun, would be sufficient to break up a hurricane should one approach the resort complex. It is possible that weather control machines would have to be installed on ships or planes and located in the path of the hurricane such as happened with Iniki. Being able to break up or at least divert hurricanes should noticeably reduce insurance costs.

## Three-Dimensional Holographic Television

From: Gary Vesperman [<mailto:vman@skylink.net>]  
Sent: Wednesday, January 15, 2003 10:49 PM  
To: David G. Yurth  
Subject: Three-dimensional holographic video (?)

Dave,

It is impressive to be able to tell people that torsion field communications is theoretically able to transmit three-dimensional holographic video on 40 billion channels at a velocity up to a billion times faster than the speed of light right through the earth, etc.

I showed Janet the thick manual I wrote for Ampex 1979-1981 on their sophisticated TV camera.

Have you ever given thought as to just how a holographic three-dimensional video camera could be constructed? And then how the holographic image could be portrayed at the receiver?

Gary

From: david <[david@iomedics.com](mailto:david@iomedics.com)>  
To: Gary Vesperman <[vman@skylink.net](mailto:vman@skylink.net)>  
Date: Thursday, January 16, 2003 9:45 AM  
Subject: RE: Three-dimensional holographic video (?)

Indeed. We actually have a technology partner up in Vancouver, BC, who has begun development of a holographic image compression engine...it's really far out. But he's stuck. The issue is this – when you work with holograms as a communications medium, you are dealing with a local, linear display of non-local non-linear data. At this moment in time, we do not have a single truly non-linear, non-local mathematical expression to draw on to describe what non-local/non-linear really means or how it works. The closest we can come to this is the Ulam-Pasta-Fermi fourth-order derivative, which has been used to describe some of the attributes of the Nicolas Gisin/DNA Phantom Effect phenomena developed by V. Poponin.

So in order to do this as it should be done, we are faced with the requirement to add a whole new family of expressions to the lexicon of mathematical expressions. Maybe Larry Crowell and Myron Evans and Melehey and Santilli can help us with this. This is problematical because the Standard Model of physics is so severely crippled that it fails to recognize three fundamental aspects of nature: (1) the failure of conventional quantum mechanical expressions to describe hadronic mechanics, which are still based on Galileo's dimensionless single point in space concept [this is what constitutes the basis of quantum mechanics and is the principle reason quantum mechanics fails to accurately predict or describe sub-atomic dynamics]; (2) the essential nature of Quantum Calculus to describe energetic oscillation at all scales in the time domain [E.T. Whitaker's extrapolation of Maxwell's Electrodynamics Quaternions did this, but his work is ignored and is being systematically removed from web sites all over the planet]; and (3) the fact that the Cosmos operates at all scales according to the law of complementarity – which means that at every scale,

where local-linear field effects are in operation, non-local/non-linear field effects must also be operative. This problem was created by Einstein's reliance on the Lorentz transform to Maxwell's quaternions, which eliminates expressions describing time domain energetic oscillation and introduces the asinine notion that the four local linear field effects we call gravity, electromagnetism and the strong and weak nuclear forces, are all primary forces. They are not primary – they are derivatives of an underlying system of tensors whose nature and dynamics are ignored by quantum mechanics. This is why non-local field effects as a natural manifestation of nature as it is are rejected by mainstream physicists. They have no idea in hell what it even means.

Accordingly, when we design-engineer a torsion field device of any kind, we are faced with the challenge of characterizing the nature of its operations using mathematical expressions which do not facilitate local-linear calibration. This is extremely important as a design consideration because if you agree with the notion of torsion fields as sub-quantum expressions of localized oscillations of quarks, then must also buy on to the notion that nothing is relative – this demands, a priori, that every location in space at the Planck constant, in L4 [width, length, height and time dimensions] are absolute, local and mappable. This is what is referred to as the Aether and the Zero Point Energy field. That is what Michelson and Gale experimentally proved the existence of in 1929, but by the time they had published this paper, the Einstein-Podolski-Rosen formulation of the gravitational constant and the Lorentz Transform of Maxwell's quaternions had already gained universal public acceptance. Einstein's partner Cartan formulated expressions to describe torsion, but Einstein succeeded in removing from the GTR...he had notion about the nature and behavior of sub-atomic spinors – and without that insight, there was no reason to throw that baby out with the bath water.

Since that time, nothing has been developed in mathematical expressions [with the possible exception of JS Bell's Inequality Theorem as it was experimentally verified by Aspect, Wheeler, Gisin and Poponin] in a way that enables us to actually model these phenomena. Without a mathematical model, how do we proceed to design a physical device? If we build one, how do we know what the hell it is doing or whether it actually works at all? And if, for some magical, spectacular, wonderful reason we stumble onto a localized combination of components which actually do propagate and receive information non-locally via a TF generator, how on earth do we design-engineer applications for it? See what I'm getting at?

So, yes, we have built some devices, just like Akimov et al. And yes, we have measured non-linear non-local fields, using Hall Effects sensors and Faraday cages and so on. And yes, we have counter-rotated mono-polar permanent magnet plates under control conditions to develop localized torsion fields. And yes, we have used magnetic resonance RF antenna devices to send and detect signals. And yes, we have used bastardized video-conferencing software and PC-type computers to process information and produce images and sound at through-put rates faster than C. And no, we have no idea in hell why it works or what to do to design engineer applications for it.

While these results are encouraging, and while the patent application and its claims and drawings pretend to know something categorical about the process, the fact of the matter is that we're doing what J. Chandra Bose and Marconi and Tesla all did with RF devices in the early days – we are using what we have to produce an effect we believe demonstrates our notions, without having any real idea at all what the hell we are doing...and that's science as we know it. If it works, we use it. As we use it, we learn more about it. When we know enough about it to explain what does and how it works, then we engage in selective recall and claim we knew that all along.

So this is our starting point. And it's not a bad one – we could have come up empty altogether and be completely baffled. In any event, it will be more than interesting to put the pieces together in a lab which operates with impeccable discipline and integrity, instead of in my garage where anything can happen...and sometimes does. Hope it comes to pass. In the meantime, we'll keep our ears to the rails and do what we can to stay ahead of the curve.

Check you later.

Dave

## **Speed of Light is Slowing Down!**

Astronomers and physicists have determined that the speed of the torsion field is at least 1,000,000,000 times the speed of light. However, the below emails discuss that the speed of light is slowing down! Now what?

Dear Friends,

In early August 2004, I, Gary Vesperman, sent to most of my email correspondents the below link to a report that the speed of light has slowed 7 per cent over the past two centuries! On even a human historical time scale of 10,000 years, ignoring for the moment vast geological time scales, that much of a slowdown shockingly throws our presently comfortable understanding of physics and astronomical distances wildly cockeyed.

Below from three friends are their brave responses. The fact that only three could think of something to say out of well over a hundred highly knowledgeable recipients indicates the truly bewildering nature of the phenomenon of light's speed slowdown. I rank it with such crazy phenomena as etheric weather engineering, Reiki healing, extra-sensory perception, and the multi-generational migratory habits of monarch butterflies.

Gary Vesperman

(Gary Vesperman's email)

Dear Friends,

[http://www.wnd.com/news/article.asp?ARTICLE\\_ID=39733](http://www.wnd.com/news/article.asp?ARTICLE_ID=39733)

I have been thinking about this all week, raising my eyebrows higher and higher.

For instance, what happens now with Einstein's famous equation energy equals mass times speed of light squared?

What happens to calculations of distances to the stars?

The speed of light has the dimensions of length divided by time. Is length constant, but time is changing? If time is changing, then what is time?

Is the speed of light oscillating over a very long period of time, or dependent on location of the measurement? Or has it really been slowing down since the beginning of time? What is and when is the "beginning of time"?



If I remember my physics correctly, the speed of light (in a vacuum) is the reciprocal of the product of permeability (magnetic field constant) and permittivity (electrical field constant). What happens now with those two fundamental constants?

Photons of light do not have mass. So therefore, light photons shouldn't have momentum or kinetic energy. However they do have energy proportional to their frequency. (I think the energy of one photon  $E$  is equal to Planck's constant  $h$  times the photon's electromagnetic wave frequency  $f$ .) Is there any indication of a photon's energy being affected by changes in its speed in a vacuum? If so, would there correspondingly be changes in the photoelectric effect, photovoltaic electricity generation, photosynthesis, photography, etc?

Gary Vesperman

(Andrew Michrowski's response)

Perhaps you will view things with a different angle about time.. after reading the attachment.

Cordially, and in goodwill,

Andrew Michrowski

(Andrew sent an attached article titled "Time and Its Physical Relationships".)

(Linda's thoughts follow next)

From:

To: [gvesperman@hotmail.com](mailto:gvesperman@hotmail.com) (Gary Vesperman)

Subject: Re: Speed of light is slowing down!!!!

Date: Tue, 10 Aug 2004 06:13:15 -0500

Gary,

One's body's DNA as it ages goes through a time limited process. In other words, cloning of one's DNA immediately shortens the clone's lifespan because of the DNA lifespan.

Our universe, as we know it, is a living "organism". So why wouldn't it go through the shortened process through aging? Although it conflicts with "constants" of physics which assumes eternal stability, our universe as a living "being" goes through changes much like short lived organisms as we know it here, life was shorter in Einstein's lifetime, so hence his view of stability in constants.

Now I have read that the universe goes through a process of shrinking and expansion. Supposedly, the universe is in the shrinking process right now. Why wouldn't that affect "constants" such as we know them?

All this says is that in our equations, speed of light now becomes a variable, not a specific value.

Only my thoughts,  
Linda

(Hal Fox tries to help us dig out of mankind's dark hole of ignorance)

From: "Harold Fox" <[eamf@earthlink.net](mailto:eamf@earthlink.net)>  
To: "Gary Vesperman" <[gvesperman@hotmail.com](mailto:gvesperman@hotmail.com)>  
CC: "Pat Bailey" <[ine@padrak.com](mailto:ine@padrak.com)>  
Subject: Thanks for interesting article  
Date: Tue, 10 Aug 2004 11:01:09 -0600

Dear Gary Vesperman,

Thanks for calling my attention to an interesting article.

[http://worldnetdaily.com/news/article.asp?ARTICLE\\_ID=39733](http://worldnetdaily.com/news/article.asp?ARTICLE_ID=39733)

Here is something that might be of interest to you:

I read and reviewed the following book:

Petar K. Anastasovski & Trevor M. Benson, Quantum Mass Theory Compatible with Quantum Field Theory, c1995, 165 pages, 30 refs, indexed, illus. Published by Nova Science Publishers, Inc., 6080 Jericho Turnpike, Suite 207, Commack, New York 11725. \$87.

The book reports on Anastasovski's experiments with sending photons through ions and noting that there is an interaction between photons and ions. This effect had not previously been known nor expected. In my review I suggested that this effect would explain the red shift. Anastasovski immediately wrote that he had not considered that possibility. The result was that he wrote the following article and gave me more credit than I deserved: (We were both visiting Ken Shoulders when we discussed this topic.)

Petar K. Anastasovski, H. Fox, K. Shoulders, "A New Approach to the Cosmic Red-Shift and to the Cosmic Microwave Sources," J. New Energy, vol 1, no 2, Summer 1996, pp 79-87, 4 refs, 5 figs.

This series of events essentially kills the old concept of an expanding universe that began with a big bang. My guess is that this will explain the bands of radiation discussed in the article you referenced.

Why the speed of light should be changing may be related to the emergence of this solar system into a "higher realm" that is being predicted or stated by some of the celestials. You may want to follow some of the information that is being posted (see reference at end of this email).

Thanks again for the reference to the article!

Best personal regards, Hal Fox

P.S. You will want to see [www.starshipcapricorn.org](http://www.starshipcapricorn.org) for the latest information from Capt. Helena, Starship Capricorn.

(End of Fox's email)

Gary Vesperman's additional thoughts on the speed of light slowing down:

The Aztecs believed that time proceeds in cycles as described in the middle of <http://www.cropcircleconnector.com/2004/silburyhill2/silburyhill2004b.html>. If indeed time proceeds in cycles, then perhaps the speed of light also increases and decreases in cycles? And that the current cycle will end 2012.9 as supposedly predicted by the Doomsday crop circle? Now, exactly how does time proceeds in cycles? To get around the absurdity (?) that the speed of light has been slowing down for eons of time, one answer is that the speed of light has been slowing down or speeding up in cycles. If so, over what period of time?

The Mayan-Aztec calendar uses periods of 5200 and 520 years. Disregarding the unlikely relation of light speed to planetary motions, we could try 5200 years ago and see if our universe could still function in a reasonable manner with the speed of light at that much higher magnitude.

When calculating what would be the peak speed of light 5200 years ago, we could figure out what physical events could have happened at that time and look for archaeological or geological evidence of those events. BTW, 5,200 years happens to be close to some calculations that the Bible's Genesis chapter began something like 4,500 years ago.

Since the speed of light is slowing down at such an astonishingly rapid rate, it may be helpful to determine the speed of light where it slows down enough to cause noticeable effects (other than complaints to telecommunications companies!).

(I have acquired a huge respect for the wisdom of ancient peoples. So I wouldn't quickly dismiss the Aztec notion of time proceeding in cycles.)

#### Cycles of Time, in Life and Death

In *Mysteries of the Ancient Americas*, the book states: "To the Aztec, as to all ancient Mesoamerican peoples, time proceeded not linearly, but in cycles. ... Just as the world was created, destroyed and recreated time and again, so smaller units of time repeated themselves. ... If life was impermanent for the Aztec, so, in the last analysis, was death. Life contained the inevitability of death, but death held within it the certainty of rebirth. For the Aztec, as for other native American peoples, death meant passage from earthly life to another existence on a different plane in a multi-level universe. For some, it also meant even the possibility of return to earth, though in a different form."

Gary Vesperman

## **Yurth's 5th INE Symposium paper**

Variations on the Maharishi Model: An Integration of Consciousness and the Unified Field

David G. Yurth, Ph.D.

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### Abstract:

Proposes that all phenomena in the material world arise from a unified causal plane denominated as Consciousness. Discusses numerous observable phenomena not accommodated by the current model of quantum mechanics [particularly the Second Postulate of Einstein's Special Theory of Relativity stated as  $E=MC^2$ ], superstring theory, super-symmetry, spontaneously broken symmetry, conventional mathematical descriptions of the four primary fields or a variety of other conventionally accepted cosmological models. Proposes a new fractal-based "spin-glass" model of the Cosmos which incorporates the attributes of a fifth primary field and the Lagrange points described in superstring theory with the harmonic resonances contained in the ancient Hindu text known as the Rig Veda.

### General:

The baseline argument intrinsic to any discussion of the fundamental structure and underlying dynamics which govern the nature, attributes, behaviors and characteristics of the known Universe is simply stated: "Does consciousness arise as a consequence of self organizing complexity, or does matter arise as the manifestation of a causal plane of consciousness?" The purpose of this paper is to examine the expression of both sides of this discussion, evaluate the validity of the arguments and evidence, and propose a "spin glass" model by which the apparent disparities between these two apposite positions can be reconciled.

### Introduction:

It is taken as given that at the baseline, everything in the known universe can be viewed as, and indeed is comprised of, information. The nature of the word itself is instructive. The structure of the word and its implicit meaning – in-formation – suggests that the description of the beginnings of the Cosmos contained in the ancient texts of many of the world's ancient cultures may not be far from the mark. We will demonstrate a cogent model by which to illustrate the validity of the concept, that at the beginning is the "word" containing all the information required to create and un-create the Cosmos in a continuous, unending cycle. This what Fritjof Capra refers to as the Dance of Shiva<sup>1</sup>.

Before consideration is given to the underlying argument, it is instructive to define the terms and mechanisms which are believed to support the design of the "spin-glass" model proposed here. Information is known to be self-organizing in complex, open systems. Four basic attributes are common to all such systems:<sup>2</sup>

- (1) "noise," defined in conventional quantum mechanics as the one attribute intrinsic to every system. This is the background noise, the threshold of interference, above which a quantum event must rise before it can operationalize its discrete functions;
- (2) logarithmic relationship between the relative severity and frequency of events referred to in the current literature as "catastrophic," that is, events which arise from time to time as natural expressions of the system;
- (3) open systems self-organize to a point referred to as "criticality." This is the point at which the attributes and behaviors of constituent components comprising a complex, open system can no longer be distinguished from each other but operate, instead, in concert as a single, unified system; and
- (4) the behaviors of any such system, that is the severity and frequency of the observable events which arise from the system, always find expression in the form of fractal geometry<sup>3</sup>.

### Definition of Consciousness:

"Consciousness" is customarily defined in terms of "...the quality or state of being aware, especially within oneself...the state or fact of being conscious of an external event, object, state or fact...awareness." For the purposes of this discussion, we define "consciousness" as "...the universal field which contains all information, referred to by the mystical traditions of the East as "Oneness" or the "One." Having or exercising total consciousness means having access to the Source of all information. In the Zen tradition this state is referred to as Satori; in Las Vegas, at the gaming tables, it is referred to as "the Zone."

The conventional definition, as described in the not inconsiderable works of Nobel Laureate Gerald Adelman, limits considerations related to the topic to the state of awareness of a single individual, one individual at a time. The reality of non-local attributes of transpersonal communication in all its various and often mysterious manifestations suggests that we have reason to question the sufficiency of Adelman's model. Nevertheless, we believe it is valuable to examine the contributions made to the state-of-the-art by such luminaries as Adelman and Varela.

### Transpersonal Communication:

The component of communication not accommodated by the conventional models in current scientific use has been best described as Transpersonal Communication by E. Lazlo<sup>4</sup>. The areas of investigation which could be embraced by this general term are described as:

- \* Telepathy [ESP]<sup>5</sup>
- \* Twin Pain Phenomenon<sup>6</sup>
- \* Remote Viewing<sup>7</sup>
- \* Synchronization of Brain Patterns<sup>8</sup>
- \* Spontaneous Cultural Links<sup>9</sup>

### Consciousness and the Human Brain – notions about the physical links:

We can still hold to what science thinks it has learned, so long as we are willing to admit that reality at the quantum level operates in ways which are simply outrageous at the level of the human senses and ordinary experience. Nevertheless, we have become more comfortable with the quantum paradoxes. Things at the micro-scale are bizarre but explainable, quantifiable or at least describable, using complex numbers, Riemannian geometry, superstring theory and all the rest of the appropriate branches of mathematics. Santilli's recent work in Hadronic Mechanics has significantly contributed to our understanding of quantum dynamics at the nuclear level. Finding such stuff in the innermost workings of the brain should really not surprise us at all. Indeed, when compared to such complex considerations as human history, psychology or culture, it is even somehow comforting.

The original Hebb Hypothesis, first proposed by Donald Hebb in 1949, is still held to be true. This hypothesis holds that learning changes some physical aspect of the structure of the brain. It proposes that the altered feature somehow encodes the learning event in an identifiable physical format. This physical feature, called the Engram, was conceived of as occurring somewhere on the synaptic level. Since there are known to be hundreds of thousands of synapses for each of ten billion neurons contained in the brain, this has led researchers to the conclusion that the brain may be capable of holding upwards of  $2.8 \times 10^{20}$  data bits in active memory. Until recently, this seemed more than adequate to explain the human attribute referred to as consciousness<sup>10</sup>.

Since it is also within the realm of possibility that computers can be constructed with data storage and processing capabilities which are known to be roughly equivalent on a gross scale to those possessed by the average human brain, this has led to the now almost thoroughly discounted notion that it is possible to create machines with sentient artificial intelligence. This notion has since given rise to the machine fallacy, an inverse of the pathetic fallacy, in which the brain has been thought of as nothing more than the most powerful machine of all time. However, in spite of intensive, impeccably documented research, no evidence of Engram sites has ever been found. Any number of impeccably designed, conducted and documented experiments have failed to locate these sites, including one in which various parts of rat's brains were removed after they learned a task, with no part of the brain proving essential. Frustrated experimenters have been forced to conclude that memory is "everywhere and nowhere," leading to the recent analogy in New Age circles of the "brain-as-hologram", which is perhaps even sillier than all other brain-as-machine analogies.

More recent experiments have clarified some of the underlying issues related to the question – "What is consciousness and how does it operate in the human form?" It is now obvious that all the actions of consciousness take place on a level far smaller even than that of neurons. In this finer grained appraisal, scientists today are investigating the cyto-skeletons of neuron cells, which have recently been demonstrated to be comprised of well-ordered internal arrays of microtubules. The structure of each of these microtubules consists of a symmetrical array of hollow tubes, each of which, in turn, is made of thirteen columns of tubulin dimers. Dimers are peanut-shaped globular protein pairs, each measuring in the neighborhood of 8 x 4 x 8 nanometers, existing in two different configurations, depending on their electrical polarization. The dimers may represent the on-off switch which Hebb thought of as part of the Engram concept. The problem with his conclusion is that these components are so small that the electrical state of each dimer is influenced by the polarity and other attributes of the dimers which surround it. In this proximity, interactions between the individual dimers demonstrate the primary field effects described in quantum mechanics. This discovery provides a fascinating insight into the quantum level functional mechanisms which support the functions of human consciousness, including intelligence and memory.

Messages of all kinds can be probably be propagated along each microtubule column and thence along the protein ridges which connect them. Each dimer contains about 450 amino acids, which are thought to retain information by reorganizing their amino acid sequences. Also contained inside the dimer columns are tiny threads of water in an ordered state, a state called vicinal water. Vicinal water is thought to be capable of conveying quantum-coherent oscillations for the length of the tubule - in effect, operating as an oscillating transceiver of quantum level frequencies which maintain a standing wave. The degree of complexity involved in the structure demonstrated at this level is compelling. Each dimer appears to contain sufficient amino-acid complexity to sustain independent life forms, the complexity of which exceeds the known minimum by at least one order of magnitude.<sup>11</sup>

A number of experiments conducted on the brains of living monkeys, using miniaturized instrumentation of many different and novel kinds, has established that while consciousness is engaged in the process called "thinking," the amino acid sequences contained in the dimers have been observed to shift, while the tubulin dimers themselves have been observed to actually change shape simultaneously in many different locations in the brain. All of this has been observed to take place in phased pulses. The most robust model developed to describe the incremental levels involved in this "thinking" activity suggests that the microtubules actually move during the thinking process, sometimes growing to new quantum-defined states and remaining there. On a much larger scale, dendrite spines have been observed to simultaneously grow and make new connections, sometimes changing synapses permanently and sometimes not. This is believed to be the physical mechanism by which the brain's  $10^{24}$  neural connections develop into new, permanent neural pathways as part of the learning process.

The best model currently available suggests that memories are encoded somehow as standing patterns of quantum-coherent oscillations<sup>12</sup>, set up by changes in the microtubules and their constituent parts, all working in patterns inside the individual neurons. There are now research models which suggest that there could be significant action at even finer ultramicroscopic levels, permanently beyond our ability to directly investigate. The results of the most sophisticated analyses suggests, in addition, that the brain's quantum-coherent oscillations may be structured in a kind of spin-network, comprised of patterns of nodes and sub-synaptic networks, eerily reminiscent of the palace-of-memory plan – rooms and hallways – suggesting that the ancient Greeks by introspection alone somehow intuited the very geometry of time-space. The nature, structure and the operative functions of these neural networks and nodes are described, in part, in the current version of superstring theory.<sup>13</sup> The descriptions and predictions made by superstring theory seem to be supported by discoveries also being described in the emerging literature arising from research into various aspects of the torsion field.<sup>14</sup>

It is becoming increasingly likely that the ultramicroscopic quantum interactions at the vicinal water level are implicated in the brain's plasticity. They are believed to play a fundamental role in how the brain learns and remembers. Memory, and therefore the functions of consciousness, apparently happens at a far smaller level than has previously been imagined. This would give the brain a much higher computational capacity than previously thought, up to perhaps  $10^{24}$  operations per second – some calculations have this limit set as high as  $10^{43}$  which, if true, suggests that the human brain is, in a sense, more complicated than all the rest of the universe [minus its other consciousnesses, of course] put together.

Recent experimentation has made it clear that large-scale collective quantum phenomena occur in every brain. The human brain demonstrates both global quantum coherence and quantum entanglement, as functions of the quantum relationships between the various electrical states which operate at the level of the microtubules. This likely means that all the counterintuitive phenomena and sheer paradox of quantum reality are an integral part of consciousness itself. It has only been recently, by making allowances for the quantum effects operating in the cyto-skeletons, that a team of French researchers [Francisco Varela et al] has finally managed to put forth a plausible theory as to why general anesthetics work. In their model, pain is an informational function which operates in terms of non-local effects at a distance. This fascinating work begins to explain such mysterious phenomena as phantom pain originating in missing limbs and so on.

When we begin to investigate the attributes of consciousness, we are confronted by a bizarre quantum world in which we can observe non-local action at a distance, in which decisions not made could effect events that have already really happened, and in which certain events in the present seem to be triggered teleologically, that is to say, by events which appear to have occurred in the future. All these observations support our intuitive feeling that the human mind is a deeply mysterious black box which science can scarcely hope to investigate. In order to do so, we must be willing to crash hard against the great unexplainables of reality itself.

At an extremely fine level of structure in the brain, a record of much of one's past is encoded in a uniquely complex network of synapses, microtubules, dimers containing vicinal water and amino-acid chains, all small enough and near enough together to exert quantum effects on each other. The patterns of quantum fluctuation, diverging and collapsing, operate according to the same set of rules which also describe the wave forms associated with fractal geometry: Is this consciousness?

The patterns which accompany mental activity are clearly held or generated in specific parts of the brain. They are the result of a physical structure articulated in what appear to be repeated patterns of self-organized complexity on many levels. The hippocampus, for instance, is critically important, especially the dentate gyrus region and the perforant pathway nerves which lead to it. The hippocampus is extremely sensitive to action in the limbic system, located directly underneath it in the brain. The limbic region is in many ways the seat of the emotions, what the ancients would have called the heart. Thus, the emotional charge of an event has everything to do with how it is laid out in the memory. This is not wishful thinking – it is a quantum effect.

Things happen. Consciousness witnesses or experiences them. A great deal of this experience has been shown to result in physical changes in the brain which become hard-wired for as long as one lives. This is particularly true with respect to any event heightened by emotional content. This seems right – what is felt most profoundly is remembered best and most easily, or forgotten most assiduously, as certain experiments have suggested, with an unconscious constant effort that is not true forgetting at all but rather, repression.

If the work of our colleagues abroad is clearly understood, it also seems likely that the constant reversal of polarization attributed to the behavior of the dimers creates tiny torsion fields<sup>15</sup> at the sub-nuclear quantum level of the brain. The standing wave quantum coherent oscillations which operate continuously in the vicinal water, accompanied by the reordering of the poly-peptide protein chains contained in the dimers, suggest that a dynamic information storage mechanism is at work at this level. The physical dimensions of the torsion fields generated by this mechanism are not directly measurable with existing technology, but it should be possible to calculate field strength, vortex attributes and other characteristics of these fields by extrapolating from calculations of the spin-polarity, angular momentum and vector velocity of the waveforms associated with them. When the combined effect of the individual torsion fields created by  $10^{24}$  dimers, all operating simultaneously within an enclosed volume of less than 3 liters, is calculated, it becomes easier to appreciate the extraordinary dynamics associated with some of the brain's most mysterious functions.

Accordingly, if we view the torsion field as a holographic field which interpenetrates space-time at the sub-nuclear, primary level throughout the Universe [and which conveys information at least  $10^9$  times faster than light], we begin to sense how the physical storage locations Hebb erroneously referred to as Engrams may actually operate. This suggests something genuinely profound about the nature of the brain – while it certainly cannot be referred to as a hologram in and of itself, it seems more likely than ever that the brain relies on a holographic field of information transference for even the simplest of its functions<sup>16</sup>.



More importantly, the quantum level behavior of the microtubulin dimers and the constant rearrangement of the amino-acid chains which bind them together, can be shown to operate with a clearly definable set of frequency resonant values. The quantum-coherent oscillations of these structures seem to operate in synchrony with a fixed set of harmonic resonances. It is of more than passing interest that the entire spectrum of these resonances may have been described in mystical literature more than 5,000 years old. The verses of the Rig Veda have been shown to be the lyrical representations of the manifold harmonic resonances which define the structure, behavior and attributes of the material world as we know it.<sup>17</sup> If the inferences contained in these two bodies of information can be cogently integrated into our "spin-glass" model of the Universe, this could provide us with a way to describe not only the mechanisms by which Consciousness operates in the human condition, but the attributes of the relationship between human consciousness and all things, living or inert, as well.

#### Superstring Theory – Issues:

Superstring theory is a mathematical attempt to describe the steps which characterize the organization of matter from a point of singularity – a pure datum defined as a point in a vacuum with diameter of  $10^{-33}$  cm, the Planck distance – through numerous stages of quantum-defined organization and complexity. The theory defines the formation of matter in terms of 10 dimensions, which are defined by eight field operators, each of which possesses three axes. The theory breaks down at the primary level by resorting to a concept universally referred to as "super-foam." The inherent silliness of "super foam" – the "glue" which binds superstrings together at the  $10^{-33}$  cm level of structure – has yet to be adequately dealt with by proponents of this theory. The theory does not address the functional dynamics which operate on the primary level, by which information as a singularity becomes an expression of complementarity and duality. Nor does it accommodate the reverse of this process, which is also thought to operate contemporaneously.<sup>18</sup>

#### String Theory and Hodowanec's Phyton Concept of Torsion Fields:

The current version of superstring theory embraces a number of exceedingly complex concepts, most of them theoretical and all of them subject to a certain degree of personal interpretation. These include Lie algebras, Euler numbers, six-dimensional spatial topologies, differential geometries, Grassmannian variables, a number of emergence operators and so on – pretty exotic stuff. While I don't pretend to be conversant enough in the language to write it, I believe the concepts embodied in superstring language and its constructs can be viewed from another angle. When converted to expressions of spin-polarity, angular momentum, vector velocities and so on, I believe we will be able to quantize such things as the mathematical expressions for gravity, electro-magnetic forces and the atomic nuclear forces in the same expressions as those which have been employed to define and describe torsion fields.

One of the problems with string theory is that it has always been impossible to reduce any of its terms to experimentally verifiable components. The theory describes the smallest particles of the space-time continuum, not as geometrical points but as ultra-microscopic loops, vibrating in ten (10) dimensions, six (6) of which are compactified around other loops, which makes them exceedingly small mathematical objects. The space they are thought to vibrate in can be quantized into loop patterns which can then be referred as spin networks. This concept is enticingly close to Hodowanec's torsion field phyton construct<sup>19</sup>.

In superstring spin networks, the lines of force in the finest grain of the gravitational field are described as acting somewhat like the lines of magnetic force around a magnet, allowing the strings to vibrate only in certain resonant harmonic patterns. When I began to understand this component, I could not help but reflect on Hodowanec's note in the March 1999 New Energy News entitled Resonant Frequency of the Aether, page 21, in which he specifically describes the nature and frequency of the harmonic resonances which operate in the Schumann Resonance as harmonics of the Rhysmonic baseline frequency of  $1.855 \times 10^{43}$  Hz.

The current model suggests that the super-symmetrical strings, vibrating harmonically in ten-dimensional spin-networks, account for all the various forces and particles which are known to operate at the sub-atomic level, including bosons, fermions, quarks and now sub-quarks<sup>20</sup>. The current Lagrangian formulation includes descriptions of the gravitational effects associated with each of them. A fully integrated theory based on spin-polarity, angular momentum and vector velocities of the waveforms of these sub-atomic components should be able to successfully mesh the fundamental requirements of quantum mechanics with the dynamic features of gravitational force – this has always been the shortcoming of the superstring theory approach.

The problem with all this is the intrinsic difficulty of accommodating experimental verification. The difficulty arises because of the exceedingly small diameters of the loops and spaces described in the theory. They are all in the  $10^{-33}$  centimeter range, which is precisely the so-called Planck length. This dimension is twenty magnitudes smaller than the smallest sub-atomic particles described by quantum mechanics, including sub-quarks [if they even exist at all]. This means that the size of a single string network is to the size of an atom as the size of an atom is to the diameter of the solar system. This means that under conventional protocols, this distance is much too small to be experimentally verified.

The challenge here requires a rather fantastic leap beyond the revised model of superstring theory to measure the Planck distance, which is the smallest realm possible. This is the minimum quantum movement, which cannot be decreased without violating the Pauli exclusion principle. With conventional experimental protocols, in order to actually "view" events at this diameter, energy levels on the order of  $10^{19}$  GeV would be required. There is nothing even remotely close in our sciences, technologies or materials to accommodate this kind of power output requirement. This is the kind of energy which is only to be found in the heart of a supernova event at the moment of maximum compression – not likely to be found in the bottom of a test tube or anyone's laboratory.

The closest anyone has come to approximating the dynamics of this requirement is the experiment recently conducted at the Stanford Linear Accelerator. In 1997, a team of more than 20 scientists on loan from a half dozen of America's top physics labs participated in an experiment which has world altering implications. The fact that no one saw this result posted in banner headlines on the 10:00 o'clock news should not be surprising. At the Stanford Linear Accelerator facility in California, this team succeeded in creating positron pairs, with measurable density and particle mass, by crashing two high-intensity laser beams of monochromatic light together in a vacuum. Their experiment was not an accident – they set out to do it deliberately and kept working at it for six months until they succeeded<sup>21</sup>. Their result has since been replicated by a number of other prestigious labs elsewhere in the world<sup>22</sup>. Quantum mechanics and Einstein's equations clearly assert that it is patently impossible to create matter with nothing more than real photons, in any environment, under any circumstances. The result speaks for itself. The Second Postulate of Einstein's Special Theory appears to have been invalidated by their results. Since the results of this work cannot be denied, there must be something incomplete about the way quantum physics defines the process by which matter is continually created and destroyed at the sub-quark level. Santilli's hadronic mechanics may hold the key to unlocking these mysteries.

An interesting item of note is that the concept of a torsion field detector, in effect a monopole detector of non-local events at a distance, is comfortably accommodated by superstring theory. Since conventional physicists have no concept about what this kind of device would look like, it has always been assumed that such a thing is just another impossible phenomenon – but we know differently. It is the current availability of this sort of device, which the Russians have been using for years without calling it by this name, which has enabled the Soviet Academy of Sciences to verify the existence of the Z particles – matched pairs have long been predicted but only one variety of Z particle has ever been actually detected. They have also used such devices to isolate the particle referred to as the "weakly interacting massive particle," a WIMP, with a particle mass as large as that of a bacterium. The controlled use of such a device would provide the physical means by which the notions we have about black holes and dark matter could be experimentally investigated.<sup>23</sup>

#### Rig Veda - Issues of Coherence and Harmonic Resonance:

The structure and nature of the Rig Veda, including its peculiar orientation to the linguistic structure of Sanskrit, makes no accommodation for non-local effects at a distance which characterize the complex functions of the brain and the self-organizing behaviors of the Cosmos. These issues of time/space and an appraisal of the mechanisms of information transfer and access which define and regulate their nature and functions are an essential component of our inquiry.

The Maharishi Model of Consciousness, as described in publications provided by Maharishi Open University Press, defines consciousness and the acts of creation as inextricably related at an initial point which is defined as a singularity – a single waveform – a sound – which contains by definition all information. The model holds that this singularity is archetypal by nature and demonstrates no polarity, duality or other manifestations of a convergent relationship in time/space. The singularity is further defined as a sound which arises into being from a causal plane comprised of all information in the form of infinite potential and total silence. Each emergent singularity marries another to create a perfectly matched pair – not at all unlike that which is described in Santilli's hadronic mechanics and Hagelin's version of superstring theory. The combination of two sounds is shown to contain all elements of the material world in a primary prototype – a beginning, a gap of separation between beginning and ending, and a sound of completion.

The organization of the harmonic resonances described in the Rig Veda occurs at quantum-equivalent levels referred as the "gap." This is the interval between the dynamic and silent operators which correspond to descriptions of synchrony and assynchrony found in Hagelin's version of the Lagrangian computations of superstring theory.

As matched pairs of "sound" find harmonic resonance with other pairs, combinations of harmonic resonances proceed through a series of carefully defined levels of complexity, which comport with a set of rules which Hagelin and Nader have compared with the rules of quantum mechanics. The ten dimensions defined in superstring theory are compared with the ten (10) Mandalas contained in the totality of the Rig Veda. The eight (8) field operators of superstring theory comport nicely with eight (8) Parushas, which are defined as alternating dynamic and silent states. Each Parusha is characterized by three (3) discrete components. These elements, which comport with the three-dimensional axes defined in superstring theory, are referred to in the Rig Veda as the Viewer, the process of Viewing and that which is observed.

According to the model proposed by Hagelin<sup>24</sup> and further refined by Akimov<sup>25</sup>, the plane of corporeal existence, the space-time dimension we currently experience in waking states of consciousness, the process of creation and destruction, occurs at all times and places without regard to time or distance. The mechanisms which operate at the point of interface between the causal plane of all-knowing Consciousness, at which each resonant singularity emerges or disappears, is not defined in these models – no operative vehicle is separately provided in the text or structure of the Rig Veda. Nor is any provision made for the mechanism which supports the phenomenon referred to as the "Maharishi Effect."<sup>26</sup> Hagelin argues that conscious is the Unified Field itself, but this begs the question we are compelled to ask – "How does this mechanism operate?"

The absence of a mechanism to support the non-local effects relied on to characterize this Model, in either the Rig Veda or superstring theory [this is where the silliness referred to in the theory as "super foam" comes into play] is illustrative. At every level of material existence, in every open complex system from paired positrons to cultural parallelism, from the 101st monkey syndrome to the self-organizing behaviors of galaxies, it is clear that the information which is intrinsic to each of those processes operates non-locally, without regard to time or space and without attenuation. We propose that the medium by which the information which defines the attributes and governs the operative behaviors of all such systems, is simultaneously and instantaneously shared via a fifth primary field, referred to in the literature as the torsion field.

#### Torsion Field Phenomena:

Today, we propose a new cosmology which we believe not only accommodates the phenomena we observe and cannot explain<sup>27</sup>, but which also provides the framework for conducting our investigations well beyond the limits of current understanding. Here is how we think it works:

Michelson and Morley looked for the mysterious energy source of field energy for seventeen years and because of the restrictions imposed on them by their experimental methods and the technologies which were then available to them, failed to identify it or confirm its existence<sup>28</sup>. They called it the "Aether." Over the past 150 years scientists from all over the world have been looking for evidence of its existence. They have given it all sorts of interesting names, including pseudo-magnetism; the 5th force; Tesla called it the Empty Wave; Moray called it radiation energy; Fienberg referred to it as the Tachyon Field – Star Trek picked this one up because it sounded so good. The current favorite appellation is Zero Point Energy. There are more than 50 other names which have been used to define the fabric of space.

The fact that so many excellent scientists have attempted to name the field by describing it as a function of some of its observable attributes simply demonstrates that a sufficiently robust model has not yet been developed to accommodate the many interesting attributes which have been ascribed to it over the years. What is undeniably true about this field, which is generally referred to in current literature as the physical vacuum, is the following:

1. More than 10,000 papers have been published by more than 500 teams of scientists over the past one hundred twenty years, describing what it is, what functions it performs, how it works and where it is to be found<sup>29</sup>.
2. The state-of-the-art devices which have been created to operate in this field are becoming more prolific and sophisticated every day. Today, anyone can buy a 5th field generator from any of four sources in the former Soviet States. Their devices have been constructed, operated, tested, documented and patented. They propagate information into and retrieve information out of a field which we will describe as the Torsion Field<sup>30</sup>.

3. The theoretical structure and functional dynamics of the physical vacuum and the role of the torsion field are becoming clearer every day. References are available to more than 250 different papers, journals and books which describe many of the interesting features of the physical vacuum and the torsion field. Trenergy, Inc. plans to offer a number of gravimetric sensors and torsion field generators for sale to other researchers. In addition, Nu OmniComm Technologies, Inc., has applied for a patent which describes a process that is hoped will become the first fully functional bi-directional torsion field communications system.

#### A NEW APPROACH:

The context within which we propose to introduce this new approach to constructing a unified field theory is not exotic. Collectively, let us do what the Copenhagen School did – let's look at the current model with a different set of glasses for a moment. We propose that a unified medium – to which we will refer as a matter of convenience as the physical vacuum – can exist in a variety of different phase polarization states. In the state of charge polarization, the given medium manifests itself as an electromagnetic field. In the state of longitudinal polarization, the medium manifests itself as a gravitational field. In the state of transverse spin polarization, the same medium displays itself as a torsion field. At the nuclear level, Santilli's model of hadronic mechanics provides the mathematical constructs needed to support the parallel geometricization of the field equations which describe the strong and weak nuclear forces. When considered together, the electromagnetic, gravitational, nuclear and torsion fields all correspond to polarization of spin states in the physical vacuum. Please consider the following:

[1] It is proposed that the weak and strong atomic forces, electromagnetic fields and the gravitational field are not separate and distinct phenomena. Rather, we suggest that they all arise from the same original causal plane and operate inextricably and contemporaneously in the physical vacuum. As Akimov suggests, for a wide range of situations, it is useful to interpret all five fields as polarized conditions of the physical vacuum. We grant that the spin polarization states SL and SR contradict the Pauli Prohibition<sup>31</sup>. We beg the question by suggesting that under certain quantum mechanical conditions, the fundamental laws of quantum physics may operate in ways we do not yet understand. If it were not so, Murray Gell-Mann would not have been awarded a Nobel Prize for the discovery and description of quarks, which also violate the Pauli exclusion principle in every regard. The fact that the mathematical structure he ascribed to the operational states of quarks prohibited the existence of any smaller class of sub-atomic particles does not speak well of our understanding, since just last year his colleagues at Fermi Lab's validated the discovery of sub-quarks of six specific kinds. Presumably, they also violate the Pauli Exclusion Principle. The principles of hadronic mechanics as proposed by Santilli appear to reconcile the apparent conflicts not accommodated by the current model.

[2] Along with the attributes which have been developed to describe the torsion field as a holographic medium, characterized by a variety of behaviors which have been described conceptually, experimentally and mathematically as spin polarity and angular momentum, the formulas which have been developed over the past 100 years to describe the other four primary fields can all be converted to parallel geometricized form. A careful analysis of the basic formulas developed by Akimov, Ilyanok, Trefilov and, more recently by Myron Evan, Lawrence Crowell and Ruggero Santilli, is extremely revealing. The most stunning thing about them is the discovery that the characteristics of all four primary fields and the 5th field [which we have called the torsion field] appear to be completely accommodated by the set of functions which comprise spin polarity in linear, longitudinal and transverse functions, and angular momentum at both the quantum macrocosmic and nuclear levels. While there is still much work to be done here, it seems more than coincidental that these attributes are precisely what cause the torsion field to operate as it does. The

formulas referred to include Einstein's equations, Young-Mills equations and Geisenberg's equations<sup>32</sup>.

[3] It has been shown that information is conveyed in the Torsion Field at a rate which is at least 1,000,000,000 times the speed of light. This revelation, which is largely due to the ground breaking work of Russian scientist V.A. Dubrovsky up to 1985, has now been confirmed by at least six other laboratories in the former Soviet states<sup>33</sup>. The group velocity of torsion waves has also independently been shown to be at least 1,000,000,000 times the speed of light<sup>34</sup>. A practical set of experiments which reveal just how important this concept is have been conducted both here and in the former Soviet States. Here in the United States, Bill Ramsay describes an experiment in which Greg Hodowanec was able to not only record the occurrence of a solar flare more than eight minutes before it was confirmed by the photons and particles which entered the earth's atmosphere, but he was also able to measure the magnitude of the event, as it occurred. Nick Anthony Fiorenza and Alistair Couper have both reported on the use of gravimetric devices to record the actual transit locations of the planet Pluto, orders of magnitude faster than was possible using measurements based on conventional light wave sensing devices<sup>35</sup>.

[4] We have reason to believe, based on the ground-breaking work of V.A. Ablekov, David Bohm and Karl Pribram, that the torsion field is holographic. The combination of these features suggests that a number of phenomena which are otherwise inexplicable can now be accommodated.<sup>36</sup>

[5] Unlike electromagnetism, where analogous charges repel and opposite charges attract, in torsion fields similar charges attract and opposite charges repulse<sup>37</sup>.

[6] As the torsion field is generated by a classical spin, we can observe and measure the precise effects of the alteration of spin state of the object or system which is encompassed by it. At the Institute for Problems of Materials Science in Kiev, scientists have for more than 25 years used torsion field generators as an essential part of the manufacture of exceedingly exotic materials for which we have no comparable products in the West<sup>38</sup>.

[7] Torsion field emissions are non-dissipative and are not attenuated by the interposition of mass or the effects of distance. Torsion fields cannot be screened by any known materials or combination of materials or fields<sup>39</sup>. The results of the 1986 Moscow M-2 torsion wave communications experiments have been widely distributed. In this demonstration, a directional torsion field was modulated with a simple variation of the Morse code. The signal was instantaneously received at a point more than 22 kilometers distant using a similar low signal power device. The signal was passed through solid concrete more than 50 meters thick after having been propagated through a mountain more than 10 kilometers wide. Variations of this experiment have apparently been performed in a number of other locations in the former Soviet states since that time.

[8] The absence of any measurable attenuation of signal strength during the spread of a torsion wave group suggests that long-distance communication may be possible with the use of very low transmission power. The fact that torsion waves are not attenuated by material substances suggests that we may be able to devise systems which are capable of communicating through water or any density of physical material<sup>40</sup>. This concept also suggests that we should be able to devise communications systems capable of supporting real-time communication without regard to the vast distances of space.

[9] Since all known substances possess a non-zero collective spin state, then all substances must also create and exist within their own localized torsion fields. We now know that the expanse and frequency structure of any substance is determined by its chemical composition and the expanse structure of its molecules or crystalline lattice. In addition to providing a fascinating insight into the way consciousness may operate at the level of vicinal water in the human brain, a clear understanding of these mechanics could enable us to create energy storage devices which demonstrate energy conversion characteristics well in excess of gasoline [650 watt-hours/kilogram]<sup>41</sup>. At the Institute for Problems of Materials Science, Trefilov, Tovschuk and Kovalyuk have created a solid-state energy cell [energy accumulator] which produces 850-1040 watt-hours/kilogram in laboratory models. The reliability of their claims regarding this technology have been verified by INEL, DARPA and the ATML. A key element of their construction method relies on the effects of a torsion field beam which operates during the process of crystalline lattice deposition<sup>42</sup>. IPMS has also perfected the use of a torsion field device which enables them to manufacture mono-molecular powders of strategic metals which can be stored in conventional glass containers without voluntarily generating static electricity.

[10] It has been shown that torsion fields demonstrate persistence. This attribute is referred to in the literature as a residual field effect<sup>43</sup>. A torsion source of a defined expanse and frequency has been consistently shown to polarize the localized region of the physical vacuum. Once the energizing space-spin source has been put in motion and a torsion field created, and then removed to another place, the space which surrounded the torsion field generator will continue to exhibit the effects of the torsion field for as long as several hours. If we can delineate the dynamics which cause the persistence of residual field effect, we will be able to explain and harness the functional features attributed to dowsing, magnetically effected molecules of water and so on<sup>44</sup>.

(Comment from Gary Vesperman regarding "...torsion fields demonstrate persistence. This attribute is referred to in the literature as a residual field effect": A few years ago, I had on my office desk for a while Stewart Harris' theory of magnetic instability (TMI) toy demonstration device. The horizontal moving part of Harris' device comprises of a three-inch long stack of circular magnetic disks (roller). Each disk was an inch and a quarter in diameter, about an eighth of an inch thick, and had a magnetic north pole on one face, and a south pole on the disk's opposite face. The stationary portion of the device was two similar cylinders/stacks of magnetic disks placed in parallel with each other and taped down on a cardboard incline of approximately 30 degrees from the horizontal plane. Their distance apart was just enough to accommodate the length of the roller stack of magnetic disks.

If the roller cylinder is placed at the bottom of the incline between the bottom ends of the stationary cylinders, the roller by itself will roll *uphill* the incline. One interpretation of the roller being able to roll uphill is that it is drawing energy out of the omnipresent zero point energy field; not in seeming violation of the "law" of conservation of energy. At the top of the incline, the roller normally stops between the upper ends of the stationary cylinders. But if the roller was immediately picked up, after it completes its roll up the incline, and placed back at the bottom of the incline, its spinning would retain enough residual torsion field energy to cause it to fall over the top of the incline.

If an experimenter wishes to build a TMI device, try to get buy disks with weak magnetic fields so that the roller will slowly uphill between the stationary stacks. Stewart Harris' device had weak magnetic disks. The magnetic disks I bought from Radio Shack for my toy were so strong the stationary cylinders were hard to tape down on the cardboard incline, and the roller would zip uphill too fast to easily demonstrate the residual torsion field energy effect. If weak magnetic disks can not be easily bought, try heating strong magnetic disks in an oven just long enough to weaken their magnetic fields, but not to completely erase them!)

[11] Teams of scientists from more than 50 laboratories have shown that it is now feasible to deliberately perform a wide variety of carefully calibrated functions using torsion field devices<sup>45</sup>. We can build torsion field generators of both static and radiating types<sup>46</sup>. We can select, adjust and fine tune frequencies modulated into the field with a high degree of precision. We can modulate and retrieve data into and out of the torsion fields, including via two-dimensional spin matrices<sup>47</sup>. We can operate efficiently in a variety of different modes of signal radiation<sup>48</sup>. We can adjust and smooth the intensity of the S-waves<sup>49</sup>, and we can operate simultaneously in both left and right S-wave chiral helicities<sup>50</sup>.

[12] Torsion fields can be detected, generated, switched on and off (such as in communications applications)<sup>51</sup>. We have demonstrated that torsion fields can be designed to interact with laser beams<sup>52</sup>, to modulate light frequencies and perform other functions. Torsion fields have been demonstrated to exert a specific effect on biological processes<sup>53</sup> and have been shown to be generated by certain melting and solidifying materials<sup>54</sup>. Torsion fields affect the oscillation of quartz crystals<sup>55</sup>, affect the functional characteristics of some electronic components<sup>56</sup>, and have been shown to have verifiable, measurable and predictable localized effects on gravity<sup>57</sup>.

[13] In practical fact, we can point to a long list of applications that could benefit from carefully planned applications engineering which recognizes the properties of torsion fields and harnesses them for practical purposes. Among these are revolutionary new propulsion systems, long-range sensors, communications devices, astrophysical monitoring and metering devices, geo-physical devices which can be calibrated to locate mineral deposits, water, subterranean structures; photographic applications which are capable of imaging the interior of virtually any substance or structure, and so on.

The New "Spin-Glass" Model - Includes Torsion Field Effects:

It seems to me that what is needed to integrate torsion field theory with superstring theory is to create a task force, comprised of some of the finest mathematicians and theoretical physicists from wherever we can find them, to [1] geometricize the baseline equations which describe the four primary forces, [2] bring Hodowanec's Phyton concepts into line with the similarly rigorous discipline applied by Dr. Ruggero Santilli to the development of hadronic mechanics, [3] apply these rules and disciplines to modify superstring theory to describe torsion field spin-networks in terms of angular momentum, spin-polarity and waveform vector velocities, [4] develop predictors based on these integrations and [5] operationalize the predictions using gravimetric sensors to conduct astrological and sub-quantum investigations. Based on currently available information, we believe it is now possible to design an integration which takes advantage of a new software-based electron microscope device, to accommodate a gravimetric sensor device. This could be employed to provide experimental verification of certain sub-atomic predictions.

The following are examples of areas of experimental research which could be supported by this new class of devices:

- (1) Extra-Sensory Perception of Quarks – documented research over a period of 23 years.<sup>58</sup>
- (2) The Maharishi Effect – the coherent brain patterning of meditators in a group.<sup>59</sup>
- (3) 101 Monkey Syndrome – non-local transference of information at a distance.<sup>60</sup>
- (4) Secret Life of Plants – carefully documented work originally developed over a period of 31 years by Sir Jagadis Chandra Bose, Luther Burbank and others describing the effect of human consciousness on plants.<sup>61</sup>
- (5) Nikolas Gisin @ CERN – non-local effects at a distance, experiments with positron pairs via fiber-optic cables proving the predictions of Bell's Theorem.<sup>62</sup>



## Conclusions:

The process by which matter is constantly created and destroyed at the fundamental level of sub-nuclear event horizons is described with equal facility by two fundamentally disparate sources – modern mathematics/ the physical sciences v. harmonic resonances which comprise the ancient Hindu text referred to as the Rig Veda. Both approaches suffer from the same fundamental shortcoming – they fail to provide a cogent description of the mechanism by which non-local effects occur at a distance. These issues are accommodated by the experimentally verified attributes of a 5th primary field, described as the torsion field. When this component is added to the mix of the four conventionally held fields, the Maharishi model of Consciousness becomes viable. When every aspect of the known Universe is viewed as information, and when information is made accessible throughout the Cosmos at a fundamental holographic, non-local level via the operations of the torsion field, which has been shown to facilitate the transmission of information non-locally, without regard to time or distance, then the set of rules which govern the operations of space-time [at least in this dimension] are discovered to be both simple and elegant.

<sup>1</sup> F. Capra, “The Tao of Physics”, Shambala Press, 1995 3rd Edition.

<sup>2</sup> Per Bak, Per Bak, “How Nature Works”, Springer-Verlag (New York @ Copernicus) 1996.

<sup>3</sup> Add: Fractal as 3-D representation of holographic attributes = infinite complexity and non-local accessibility to information. Each component contains the analog of all information defined by the whole.

<sup>4</sup> Erwin Lazlo, “The Whispering Pond: A Personal Guide to the Emerging Vision of Science”, Element Books, Inc., 1996.

<sup>5</sup> As described in the work of Dean Radin [“The Conscious Universe”], the practice, use of and reliance on ESP as a fundamental means of communication, is still widespread among primitive tribes [see Mutant Walkabout Down Under et al] [ref: J.B Rhine, Hal Puthoff, Russell Targ, Grenberg-Zylberbaum, etc.]

<sup>6</sup> [See also “Treatment Results...” in Lazlo, “Whispering Pond”]

<sup>7</sup> [See the literature of Schnabel, Moorehouse, McMoneagle, Puthoff, Targ, Swann, et al “Operation Stargate”.]

<sup>8</sup> [Particularly among groups of meditators ibid Lazlo]. The Maharishi Effect [Tolpingrud]. Tony Nader/John Hagelman. 101 Monkey Syndrome @ Rupert Sheldrake/ Morphogenetic Field effects as described in 7 Experiments That Could Change The World.

<sup>9</sup> [See also Lazlo, “Whispering Pond”, for added detail – The Archeulian hand-axe phenomenon. Parallelism of pyramid development, etc.]

<sup>10</sup> G. Edelman, G. Tonori, “The Universe of Consciousness: How Matter Becomes Imagination”. See also G. Edelman, Bright Air, Brilliant Fire: on the matter of the mind.

<sup>11</sup> See Grammatical Man: Information, Entropy, Language and Life, Jeremy Campbell, Simon & Schuster, New York, 1982, page 122-124. “Nature As An Information Process - Something Rather Subtle,” describes the astonishingly clever adaptation in a virus known as ØX174. This virus stores information by means of a DNA text so cunningly comprised as to tax the ingenuity of a master anagrammist.

<sup>12</sup> See “Ruggero Santilli” and JNE - Hadronic Model of Quantum Interactions.

<sup>13</sup> John Hagelin, “Is Consciousness the Unified Field? A Field Theorist's Perspective”, Maharishi International University, Fairfield, Iowa, 1989.

<sup>14</sup> For a definitive description of the controversies and short comings of superstring theory, see Erwin Lazlo, “Whispering Pond” and Santilli, Book III JNE Aug 99.

<sup>15</sup> Torsion field footnotes – see references to Akimov, Shipov, et al in JNE and independently published papers.

<sup>16</sup> During a recent meditation, I began to visualize a fractal – I had just watched the film *Colours of Infinity*, an examination of the mathematical discipline known as fractal geometry, focusing on the Mandelbrot Set, a geometric shape of infinite complexity. As my mind descended into successive levels of the fractal image, I was struck by the fact that each level, indeed every component at each subset, contains both infinite complexity and all the information contained in the fractal itself. This is precisely what holograms do. Every subset of the hologram contains a portion of all the information contained in the whole. By its nature, the universal hologram manifests infinite complexity. I have never seen a mathematical integration of these two fundamental concepts – that doesn't mean no one has done it, but it does suggest that if I haven't read about it or seen reference to it in the literature I have been surveying for the past 15 years, it is unlikely that any work of this kind has been published in a context which has any general application or access.

<sup>17</sup> See Dr. John Hagelin's integration of the Rig Vedic verses [Twenty-seven Expressions of the Constitution of the Universe] with the Lagrangian variants of superstring theory contained in the publication "Celebrating Perfection in Education: Dawn of Total Knowledge", Maharishi Vedic University Press, 1997, pp. 52-64.

<sup>18</sup> This is a fundamental point not addressed in known mathematical models relying on superstring theory. See Santilli's analysis of the inherent shortcomings of superstring and super symmetry theory. "The Physics of New Clean Energies and Fuels According to Hadronic Mechanics", Special Issue, *Journal of New Energy*, Vol. 4, No.1, Summer 1999.

<sup>19</sup> See Hodowanec's Rhythmic Cosmology, unpublished private papers compiled from the files of Bill Ramsay, 1985.

<sup>20</sup> See R.Santilli, *Ethical Probe on Einstein's Followers in the USA: An Insider's View [Il Grande Grido – A Cry in the Wilderness]*, Alpha Publishing, 1984. There is considerable question as to whether quarks and sub-quarks actually exist as definable particles. The unresolved issue which challenges the conventional view suggests that because these sub-atomic particles cannot be assigned gravitational coefficients, they cannot exist in space-time.

<sup>21</sup> K.G. Tatterson, "Boom! From Light Comes Matter." *Photonics Spectra*, November 1997, page 31.

<sup>22</sup> These experimental results have been replicated thus far at Stanford University, the University of Rochester at Rochester, New York; Princeton University in Princeton, New Jersey, and the University of Tennessee at Knoxville.

<sup>23</sup> See Santilli's paper on the miscalculation of total mass required in the Universe as a direct result of the inconsistencies of quantum mechanics at the level of  $10^{-13}$  cm and beyond.

<sup>24</sup> Hagelin - "Is Consciousness the Unified Field?"

<sup>25</sup> JNE - Heuristic Model ...

<sup>26</sup> Maharishi Effect - data and references.

<sup>27</sup> Akimov, A.E., "An Heuristic Discussion of an Issue of a Discovery of New Long Distance Interactions," EGS-Concepts, MINTC VENT, pre-print N7A, page 63 (Russian).

<sup>28</sup> A.A. Michelson and Henry G. Gale, "The Effect of the Earth's Rotation on the Velocity of Light," *Nature*, no 115, page 566 (1925). See also A.A. Michelson, "The Effect of the Earth's Rotation on the Velocity of Light, Part I," *The Astrophysical Journal*, no 61, pages 137-139. See also A.A. Michelson and H.G. Gale, "The Effect of the Earth's Rotation on the Velocity of Light, Part II," *The Astrophysical Journal*, no 61, pages 140-145 (1925).

<sup>29</sup> Akimov, Shipov et al, "Torsion Fields And Their Experimental Manifestations," *J. New Energy*, vol 2, no 2, 1997.

<sup>30</sup> A.E. Akimov, G.I. Shipov, "Torsion Fields And Their Experimental Manifestations," J. New Energy, vol 2, no 2, 1997. See also V. Bunin, "Latest Problems of Gravitation in the Light of Classical Physics," abstracts of papers of the 4th Astrogeological Workshop of the Geographical Society under the USSR Academy of Sciences, Leningrad, 1962, page 88 (in Russian). See also, V. Bunin, "Unified Gravitational Equations of Mathematical Physics," author's abstract of MIOP section, 1965, vol 1, no 4 (in Russian). See also V. Dubrovsky, "Elastic Model of Physical Vacuum," DAN USSR, vol 282, no 1, 1985 (in Russian).

<sup>31</sup> J.A. Wheeler, "Einstein's Vision", Springer-Verlag, 1968, page 112. See also A. Dolgov, Yu. Zel'dovich, M. Sazhin, "Cosmology of the Early Universe", MGU Publ., Moscow 1988, page 200 (in Russian). See also M. Lavrent'ev et al, "On Remote Action of Stars on Resistor", Doklady AN SSSR, 1990, vol 314, no 2, page 352 (in Russian). See also A. Pugach, A. Akimov, "Astronomical Observations by N. Kozyrev's Methodology: Preliminary Results," in the press (in Russian).

<sup>32</sup> Akimov, A.E., "An Heuristic Discussion of an Issue of a Discovery of New Long Distance Interactions," EGS-Concepts. MNTC VENT, pre-print N7A, page 63 (in Russian); Akimov, Shipov, "Torsion Fields And Their Experimental Manifestations," Journal of New Energy, Vol. 2, No. 2, page 68, Summer 1997.

<sup>33</sup> A.E. Akimov, G.I. Shipov, "Torsion Fields And Their Experimental Manifestations," J. New Energy, vol 2, no 2, 1997. See also V. Bunin, "Latest Problems of Gravitation in the Light of Classical Physics," abstracts of papers of the 4th Astrogeological Workshop of the Geographical Society under the USSR Academy of Sciences, Leningrad, 1962, page 88 (in Russian). See also, V. Bunin, "Unified Gravitational Equations of Mathematical Physics," author's abstract of MIOP section, 1965, vol 1, no 4 (in Russian). See also V. Dubrovsky, "Elastic Model of Physical Vacuum," DAN USSR, vol 282, no 1, 1985 (in Russian). V. Dubrovsky, "Elastic Model of a Physical Vacuum," DAN USSR, vol 282, no 1, 1985 (in Russian).

<sup>34</sup> V.A. Bunin, "Newest Issues of Gravitation in the Light of Classical Physics," Proceedings 4th Astro-Geological Meeting Geographical Society of AS USSR, L. 1962, page 88 (in Russian). See also V.A. Bunin, "Unitary Electra-Gravitation Equations of Mathematical Physics," Auto-reperates of speeches in the section entitled MOIP, 1965, no.1, p.4 (in Russian).

<sup>35</sup> Bill Ramsay, "Fixed Rate Scanning, Enigma or Research Tool?", unpublished paper August 1997. See also, Bill Ramsay, "Exploring the Aethers: Adventures Inspired by Hodowanec's Discoveries," Proceedings of the International Symposium on New Energy, Denver, Colorado, May 12-15, 1994. Nick Anthony Fiorenza, "Gravitational Wave and Planetary Correspondence," Argo Navis, Inc., 288 Bluff St. Suite 474, Boulder, Colorado, 80301, 1994. Alastair, "Measuring Gravity," 181 Star Route, Hana, Hawaii, 96713. See also [aquarius@t-link.net](mailto:aquarius@t-link.net).

<sup>36</sup> David G. Yurth, Proceedings of the 4th Annual Symposium of the International New Energy Society, J. New Energy, Fall 1998.

<sup>37</sup> Akimov, Shipov et al, "Torsion Fields And Their Experimental Manifestations," J. New Energy, vol 2, no 2, page 72, 1997.

<sup>38</sup> David G. Yurth, "The Anthropos Files", (unpublished report of the sciences, materials, technologies developed at the Institute For Problems of Materials Sciences, Kiev, L'vov, Chernovitsky, Republic of Ukraine, from 1951-1991).

<sup>39</sup> Akimov, Shipov et al, "Torsion Fields And Their Experimental Manifestations," J. New Energy, vol 2, no 2, page 74, 1997.

<sup>40</sup> Akimov, Shipov et al, "Torsion Fields And Their Experimental Manifestations," J. New Energy, vol 2, no 2, page 72, 1997.

<sup>41</sup> Convegno Internazionale: "Quale Fisca per 2000?" Bologna, 1991. See also David G. Yurth, Anthropos Files, *ibid*.

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<sup>59</sup> "The Maharishi Effect: Creating Coherence in World Consciousness, Results of scientific research conducted between 1974-1990", Maharishi International University Press, Fairfield, Iowa; see also E. Lazlo, "The Whispering Pond: A Personal Guide to the Emerging Vision of Science", Element Publishing, 1996, pp. 103-114.

<sup>60</sup> R. Sheldrake, "Seven Experiments That Could Change the World: A Do-it Yourself Guide to Revolutionary Science", Riverhead Books, New York, 1995.

<sup>61</sup> P. Thompson, C. Bird, "The Secret Life of Plants", Avon Books, New York, 1972; see also P. Yogananda, *Autobiography of a Yogi*, Self Realization Fellowship, 12th Edition Third Printing, 1994.

<sup>62</sup> *Photonics Spectra Magazine*, August 1997, pp 30-36. Dr. Gisin and his team borrowed fiber optic phone lines running from Geneva to two nearby towns. In Geneva, they shone photons into a potassium-niobate crystal, which split each photon into a pair of less energetic photons, traveling in different directions – one north toward Bellevue and the other southwest towards Bernex. At these two destinations, nearly seven miles apart, each photon was fed into a detector. When the attributes of one positron were altered at the point of detection by an electromagnetic field, the other positron of the pair instantaneously adjusted its characteristics to accommodate and mirror the altered spin polarity of the first. In this instance, "instantaneously" means that the highest resolution atomic clock available detected no time delay.

## **Kozyrev: Aether, Time and Torsion**

Kozyrev: Aether, Time and Torsion

The Russian scientist Dr. Nikolai Kozyrev is in many ways a forerunner - the father of today's efforts to re-interpret physics in a way that does not contradict intuitive understanding. Our efforts to reconcile the inherent contradictions of the standard model of physics, firmly based as it is on Einstein's theory of relativity and quantum mechanics, have brought less than satisfying results.

See photograph of Dr. Kozyrev in Sepp Hasselberger's site [http://blog.hasselberger.com/2007/05/kozyrev\\_aether\\_time\\_and\\_torsio.html](http://blog.hasselberger.com/2007/05/kozyrev_aether_time_and_torsio.html). Hasselberger's site discusses other scientific topics in the following categories: cosmology, economy, science, society, space, spirituality, technology, and vortex.

Kozyrev has measured spin or torsion field effects at a time when Western science was busy smashing atoms into ever smaller fractions. He investigated time and the aether before most of us in the West ever thought of questioning the workability of our modern interpretations of the universe.

A most welcome effort to increase our awareness of Kozyrev's outstanding work is a book chapter on David Wilcock's site, which introduces him with the following words:

Dramatic scientific evidence that all of physical matter is formed by an “aether” of invisible, conscious energy has existed since at least the 1950s. Renowned Russian astrophysicist Dr. Nikolai A. Kozyrev (1908-1983, pronounced Ko-zir-ev,) proved beyond any doubt that such an energy source had to exist, and as a result he became one of the most controversial figures in the history of the Russian scientific community. The awesome implications of his work, and of all those who followed him, were almost entirely concealed by the former Soviet Union, but with the fall of the Iron Curtain and the advent of the Internet we are finally gaining access to “Russia’s Best-Kept Secret.” Two generations of remarkable research by thousands of Ph.D. level specialists have emerged from Kozyrev’s seed findings, which completely change our understanding of the Universe. With our prominent mention of him in this book, we hope to permanently establish his historical importance and impact to our colleagues and readers.

After having heard of Kozyrev in the 90s, I came upon his name again in a recent issue of NEXUS magazine, where a summarized version of David Wilcock's book chapter is published under the title: The Aether Science of Dr N. A. Kozyrev. That short version, published in NEXUS, is copied here:

#### THE AETHER SCIENCE OF DR N. A. KOZYREV

by David Wilcock @ 2006

(A more extensive version of this article can be found in [http://www.divinecosmos.com/index.php?option=com\\_content&task=view&id=95&Itemid=36](http://www.divinecosmos.com/index.php?option=com_content&task=view&id=95&Itemid=36).)

Dramatic scientific evidence that all of physical matter is formed by an "aether" of invisible, conscious energy has existed for decades.

Renowned Russian astrophysicist Dr. Nikolai A. Kozyrev (1908-83) proved beyond any doubt that such an energy source had to exist, and as a result he became one of the most controversial figures in the history of the Russian scientific community.

The awesome implications of his work, and of the work of all those who followed him, were almost entirely concealed by the former Soviet Union, but with the fall of the Iron Curtain and the advent of the Internet we are finally gaining access to "Russia's best-kept secret". Two generations of remarkable research by thousands of Ph.D.-level specialists has emerged from Kozyrev's seed findings, which completely change our understanding of the Universe.

#### An Unseen Medium of Energy

The aether's existence was widely accepted without question in scientific circles until the early 20th century, when the Michelson-Morley experiment of 1887 was co-opted to "prove" that no such hidden energy source existed. (See above chapter on Etheric Weather Engineering for explanation of mainstream physics' erroneous interpretation of the Michelson-Morley experiment.)

However, more recent breakthroughs involving "dark matter", "dark energy", "virtual particles", "vacuum flux" and "zeropoint energy", to name a few, have brought reluctant Western scientists to acknowledge that there must indeed be an unseen energy medium throughout the Universe. As long as you use a benign term like the "quantum medium" and not the forbidden word "aether", you can talk about it in the mainstream press without much fear of ridicule.

One early example of proof for the existence of the aether comes from the respected physicist Dr. Hal Puthoff. He frequently mentions experiments from the early 20th century, conducted before quantum mechanics theory even existed, that were designed to see if there is any energy in "empty space". In order to test this idea in the laboratory, it was necessary to create an area that was completely free of air (a vacuum) and lead-shielded from all known electromagnetic radiation fields by using what is known as a Faraday cage. This airless vacuum space was then cooled down to absolute zero or  $-273^{\circ}\text{C}$ , the temperature where all matter should stop vibrating and thus produce no heat.

These experiments proved that instead of an absence of energy in the vacuum, there is a tremendous amount of it, from a completely non-electromagnetic source!

Dr. Puthoff has often called this a "seething cauldron" of energy in very high magnitudes. Since this energy could still be found at absolute zero, this force was dubbed "zero point energy" or ZPE, whereas the Russian scientists usually call it the "physical vacuum" or PV.

Established mainstream physicists Dr. John Wheeler and Dr. Richard Feynman calculated that the amount of zero-point energy in the space volume of a single light bulb is powerful enough to bring all the world's oceans to the boiling point!

Clearly, we are not dealing with some weak, unseen force but, rather, a source of almost impossibly grand power which would have more than enough strength to sustain the existence of all physical matter.

In the new view of science that is emerging from aether theory, all four of the basic force fields, whether gravity, electromagnetism, weak nuclear force or strong nuclear force, are simply different forms of the aether/ZPE.

Professor M. T. Daniels found that the density of the gravitational energy near the surface of the Earth is equal to  $5.74 \times 10^{10}$  (t/m<sup>3</sup>). (Let us not forget that gravity would simply be another form of aether in this new model.) Prof. Daniels' finding means that drawing a sizeable 100 kilowatts of this "free energy" power from the gravitational field dips into an extremely tiny 0.001 per cent of the natural energy that is being produced in that area. (See New Energy News, June 1994, p. 4.)

Research conducted by Dr. Nikola Tesla led to his statement in 1891 that the aether "behaves as a fluid to solid bodies, and as a solid to light and heat", and that under "sufficiently high voltage and frequency" it could be accessed – which was his hint that free energy and antigravity technologies are possible.

Let us pay special attention to Tesla's statement that the aether has a fluid-like effect when we are dealing with solid objects, as this ties in directly with the work of Dr N. A. Kozyrev.

### Rethinking Matter

In order to truly grasp Kozyrev's work and related findings, certain new analogies for physical matter are required. Kozyrev's work forces us to visualize all physical objects of matter in the Universe as if they were sponges submerged in water. In this analogy, we should consider the sponges as having remained in water for a long enough period of time that they are completely saturated. Bearing this in mind, there are two things we can do with such sponges underwater: we can decrease the volume of water that they contain or increase it by very simple mechanical procedures.

1. Decrease: If a submerged, saturated sponge is squeezed, cooled or rotated, then some of the water inside of it will be released into its surroundings, decreasing its mass. Once the sponge is no longer disturbed, the pressure on the millions of tiny pores is relieved, causing it again to absorb water and expand back to its normal resting mass.

2. Increase: We can also pump more water into the sponge in its rest state, such as by heating (vibrating) it, thus causing some of the pores to expand with more water than they can comfortably hold. In this case, once we relieve the added pressure, the sponge will naturally release its excess water and shrink back down to its normal resting mass.

Though it would seem impossible to most people, Kozyrev showed that by shaking, spinning, heating, cooling, vibrating or breaking physical objects, their weight can be increased or decreased by subtle but definite amounts. And this is but one aspect of his amazing work.

### Dr Kozyrev's Background

Since the Western world is largely uneducated about Kozyrev, some biographical and research information is in order. Far from a being a "crank" or "crackpot" scientist, he was in fact considered one of the pre-eminent Russian thinkers of the 20<sup>th</sup> century. Kozyrev had his first scientific paper published at the tender age of seventeen, and other scientists were amazed by the depth and clarity of his logic. His main work was in astrophysics, where he studied the atmospheres of the Sun and other stars, the phenomenon of solar eclipses and radiation equilibrium. By age twenty he had already graduated from the University of Leningrad with a degree in physics and mathematics, and by age twenty-eight he was widely known as a distinguished astronomer who had taught at several colleges.

Kozyrev's abundant life took a most unfortunate and difficult turn in 1936, when he was arrested under the repressive laws of Josef Stalin, and in 1937 he began 11 torturous years enduring all the known horrors of a concentration camp. In this state, he mused deeply upon the mysteries of the Universe, paying attention to all the patterns that exist in life, wherein so many different organisms show signs of asymmetry and/or spiraling growth. From his illuminated observations, Kozyrev considered that all life-forms might be drawing off an unseen, spiraling source of energy, in addition to their normal properties of gaining energy through eating, drinking, breathing and photosynthesis.

Kozyrev theorized that things such as the direction of a shell's spiraling growth and which side of the human body will contain the heart are determined by the direction of this flow. Should there be an area somewhere in space-time where the energy flow spiraled in the opposite direction, then he would expect shells to grow in the opposite direction and the heart to be in the opposite side of the body cavity. Kozyrev suggested that life couldn't form in any other way, because it is actively drawing off this spiraling energy to sustain itself and must therefore follow its proportions every step of the way. In this sense, we can think of the skeletal system as an "antenna" for this energy.

When Kozyrev was finally rehabilitated from the prison camp in 1948 and could return to his field of expertise, he made many predictions about the Moon, Venus and Mars, which were validated by Soviet space probes more than a decade later. This then earned him the distinction of being a major pioneer in the Soviet space race. In 1958, Dr. Kozyrev again aroused worldwide controversy by proclaiming that the Moon exhibits volcanic activity in the Alphonsus crater.



US Nobel Prize winner Dr Harold Urey was among the small group who believed that Dr. Kozyrev's theory of volcanic activity on the Moon is correct, and he urged NASA to conduct an investigation. As a direct result, NASA launched the enormous Moon Blink project, which later confirmed Dr. Kozyrev's assertions by finding significant gas emissions on the Moon.

However, not all of Kozyrev's work was quite so readily assimilated into the mainstream world of NASA.

## The Science of Time

In the winter of 1951-52, Dr. Kozyrev began his foray into the world of exotic physics, with the first of what became an exhaustive series of 33 years' worth of very intriguing and controversial experiments. As we said, the spiraling energy patterns in nature unveiled themselves to the initiated eyes of Dr. Kozyrev while in the concentration camp. His "direct knowledge" informed him that this spiraling energy was in fact the true nature and manifestation of "time".

Obviously, he felt that "time" as we now know it is much more than just a simple function for counting duration. Kozyrev urges us to try to think of a cause for time, something tangible and identifiable in the Universe that we can associate with time.

After pondering this for a while, we see that time is ultimately nothing but pure, spiraling movement. We know that we are tracing a complex spiraling pattern through space thanks to the orbital patterns of the Earth and solar system.

And now, "temporology", or the science of time, is under continual active investigation by Moscow State University and the Russian Humanitarian Foundation, inspired by Dr. Kozyrev's pioneering work. On their website, they state:

"In our understanding, the 'nature' of time is the mechanism [that brings about] appearing changes and occurring newness in the world. To understand the 'nature' of time is to point to ... a process, a phenomenon, a 'carrier' in the material world whose properties could be identified or corresponded with those of time."

This may seem strange at first glance, since a tree falling in your yard could be seen as a result of a strong wind, not of the "flow of time". However, you must then ask yourself what caused the wind to blow. Ultimately, the motion of the Earth on its axis is most responsible. Hence, all changes are caused by some form of movement, and without movement there can be no time.

Several of the scholars whose papers are published through the Russian Institute of Temporology agree that if Kozyrev had changed his terminologies and use of the word "time" to more common scientific terms such as "the physical vacuum" or "the aether", then many more people would have been able to understand his work sooner in the ensuing years.

## Torsion Physics

In 1913, Dr. Eli Cartan was the first to demonstrate clearly that the "fabric" (flow) of space and time in Einstein's general theory of relativity not only "curves", but it also possesses a spinning or spiraling movement within itself known as "torsion".

Most people are unaware that it is now generally accepted that the space surrounding the Earth and perhaps the entire galaxy has "right-handed spin", meaning that energy is influenced to spin clockwise as it travels through the physical vacuum.

According to Sciama et al, static torsion fields are created from spinning sources that do not radiate any energy. However, once you have a spinning source that releases energy in any form, such as the Sun or the centre of the galaxy, and/or a spinning source that has more than one form of movement occurring at the same time, such as a planet that is rotating on its axis and revolving around the Sun at the same time, then dynamic torsion is automatically produced. This phenomenon allows torsion waves to propagate through space instead of simply staying in a single "static" spot. Thus, torsion fields, like gravity or electromagnetism, are capable of moving from one place to another in the Universe.

Furthermore, Kozyrev proved decades ago that these fields travel at "superluminal" speeds, meaning that they far exceed the speed of light. If you can have an impulse that moves directly through the "fabric of space-time", travels at superluminal velocities and is separate from gravity or electromagnetism, you have a significant breakthrough in physics – one that demands that a "physical vacuum", "zero-point energy" or an "aether" must really exist.

### Torsion Field Experiments

Dr. Kozyrev's experiments began in the 1950s and were conducted since the 1970s with the ongoing assistance of Dr. V. V. Nasonov, who helped to standardize the laboratory methods and the statistical analysis of the results. Detectors using rotation and vibration were specially designed and made that would react in the presence of torsion fields, which Kozyrev called the "flow of time".

It is important to remember that these experiments were conducted under the strictest conditions, repeated in hundreds or in many cases thousands of trials and were written about in extensive mathematical detail. They have been rigorously peer-reviewed, and Lavrentyev and others have replicated the results independently.

Going back to our earlier analogy, we said that matter behaves somewhat like a sponge in water. If we do something to disturb the structure of the sponge, such as squeeze it, spin it or vibrate it, then it will release some of its water back into its environment.

Over the years, all of the following processes were discovered to create a "time flow" of torsion waves in the laboratory, due to their disruption of matter in some form: the deforming of a physical object; the encounter of an air jet with an obstacle; the operation of an hourglass filled with sand; the absorption of light; friction; burning; the actions of an observer, such as a movement of the head; the heating or cooling of an object; phase transitions in substances (frozen to liquid, liquid to vapour, etc.); dissolving and mixing substances; the fading death of plants; nonlight radiation from astronomical objects; and sudden changes in human consciousness. Other than the perplexing final item related to consciousness, we can readily see how each process is disturbing matter in some way, thus causing it to absorb or release minute amounts of its aetheric "water", which fits perfectly with our sponge analogy.

Even more importantly, the fact that strong emotional energy could also cause a measurable at-a-distance reaction has been repeatedly documented not just by Dr. Kozyrev but many others, and this is where our concepts of psychic phenomena and consciousness come into the picture.

Such concepts became even bigger news after the September 11, 2001 terrorist attacks on the United States, when Dean Radin and his team at the Institute of Noetic Sciences were able to measure a tremendous change in the behavior of computerized random-number generators surrounding the time immediately before and after the attack.

The data show that, somehow, a change in the mass consciousness of humanity affected the behavior of electromagnetic energy in computer circuits around the world, especially those computers nearest to North America. This suggests that torsion waves and consciousness are essentially identical manifestations of intelligent energy.

#### Aiding and Shielding Torsion Effects

Returning to the more "comfortable" arena of physical matter, Kozyrev's work showed that torsion fields can be absorbed, shielded or sometimes reflected. For example, sugar can absorb, polyethylene film and aluminum can shield, and other forms of aluminum or mirrors can reflect.

Kozyrev found that in the presence of this energy flow, objects that are rigid and inelastic show weight changes. Whereas flexible, elastic objects show changes in their elasticity and/or viscosity. Kozyrev also showed that the weight of a spinning top changes if it is vibrated, heated or cooled or if it has an electric current passed through it.

The Einstein-Cartan theory, which in 1913 established a theoretical basis for the existence of torsion fields, predicts that there is either right-handed or left-handed torsion in space, depending on the location. Subsequent discoveries in quantum physics related to the notion of "spin" confirmed that "electrons" have "right-handed" or "left-handed" spin, meaning that movement will be detected that is either clockwise or counterclockwise. All atoms and molecules maintain varying degrees of balance between right- and left-handed spin. Kozyrev determined that strongly right-handed molecules such as sugar can shield torsion effects, whereas strongly left-handed molecules such as turpentine strengthen them.

Subsequent Russian investigations also determined that common polyethylene film acts as an excellent shield for torsion waves, and these findings were used in many different experiments such as those discussed by Dr. Alexander Frolov.

- - -

For more data on Kozyrev's experiments, see David Wilcock's complete paper, "The Breakthroughs of Dr N. A. Kozyrev", with illustrations and endnotes, on his site.

#### About the Author:

David Wilcock is a professional lecturer, filmmaker and researcher of ancient civilisations, consciousness science and new paradigms of matter and energy. His upcoming film "Convergence" unveils the proof that all life on Earth is united in a field of consciousness.

David is also the subject and co-author of *The Reincarnation of Edgar Cayce?*, which explores the remarkable similarities between David and Edgar, features many of David's most inspiring psychic readings, and reveals documented NASA scientific proof of interplanetary climate change and how it has a direct impact on our DNA. Visit his website at <http://www.divinecosmos.com>.

## Moe-Joe Orgone Energy Cell

Gary Vesperman's Blue Energy Corporation business card shows a blue halo around an astronaut standing on the moon. See the cover of James DeMeo's Orgone Energy Accumulator Handbook at [http://www.amazon.com/Orgone-Accumulator-Handbook-Construction-Experimental/dp/0962185507/ref=sr\\_1\\_1?s=books&ie=UTF8&qid=1291348835&sr=1-1](http://www.amazon.com/Orgone-Accumulator-Handbook-Construction-Experimental/dp/0962185507/ref=sr_1_1?s=books&ie=UTF8&qid=1291348835&sr=1-1).

The astronaut's blue halo is apparently a visible manifestation of orgone energy. In spring 2008 a spherical Moe-Joe energy cell was installed in a 1993 Saturn which operates as an orgone energy accumulator. Orgone energy is fed through a tube into the engine via its PCV valve intake. The car's carefully measured mileage jumped from 30 MPG to nearly 50 MPG. The car also emits a cleaner exhaust and feels lighter and more powerful.

A detailed explanation of the Moe-Joe orgone energy cell is in pages 34-37 of Gary Vesperman's compilation of "Advanced Technologies for Foreign Resort Project" under "Joe Energy Cell". See [padrak.com/vesperman](http://padrak.com/vesperman).

The two Moe-Joe orgone energy cells that were experimented with were bought from Tony Schwartz. It was discovered that Tony's Cell Guardian doesn't work very well, and the stainless steel comprising the spheres is cheaper and of lower grade than they should be. At least they worked well enough to enabling verify the basic principles.

Since then a different, better Moe-Joe orgone energy cell with bismuth core has been purchased from Moshe Daniel.

Be careful about using them as a Moe-Joe orgone energy cell can possibly screw up a car with its weird residual memory.

The details are a little hazy. Gary Vesperman vaguely remembers that Moishe Daniel was pressured to move from Albuquerque, New Mexico to Canada.

After two impressive trials with the 1993 Saturn and also a 1968 Charger, the Moe-Joe orgone energy cell has amply been shown that it does enhances engine performance in more ways than one.

However, without an electronic device to modify the O2 sensor signal to the engine computer, the Moe-Joe orgone energy cell is not considered at this time a consumer friendly device. And then there is occasionally filling the cell with repeatedly charged and filtered water using a custom electrical contraption...

BTW, it should be emphatically noted that the Moe-Joe orgone energy cell is NOT a hydrogen generator.

Wed, December 22, 2010 9:57:55 AM

Fwd: Store of David House Productions - Product enquiry for Product Name: Moe-Joe Cell Car Kit

From: T. Hathaway <411moreinfo@gmail.com>

To: Gary Vesperman <garyvesperman@yahoo.com>

Gary,

FYI - sounds like the Bedini units that are for sale...80% completed, and you must have expertise to knock out the other 20%.

Is there ANYTHING overunity that can be demo'd in D.C. or at our dome home in rural VA via live Internet feed? We're working with inventors to see who wants to be the first across the finish line, but so far only one taker, and that unit is about a month away from pickup. Plus it will probably take a month to setup. So the 4th Int'l Conference on Future Energy is likely the first event where an overunity tech will be demo'd by someone other than the inventor. Bedini demoing his large ferris wheel unit last month was an excellent start, but nothing is available FOR PURCHASE BY THE PUBLIC that's overunity in terms of power input to power output, to my knowledge, that can run in all conditions without concern of batteries going dead, sun not shining, wind not blowing, etc...correct me if I'm wrong about nothing being available, as I've been out of the whole advanced energy loop for several months until last month, when there was no physical manifestation of the mid-November tipping point. At some point, one of these inventors has to just decide to trust others. If you can arrange a 24/7 live demo of an adv energy tech with full public access, that works. I don't have to be involved, so long as these techs make it out to the public.

Todd

----- Forwarded message -----

From: **Moshe Daniel** <[moshedaniel9@gmail.com](mailto:moshedaniel9@gmail.com)>

Date: Wed, Dec 22, 2010 at 12:50 PM

Subject: Re: Store of David House Productions - Product enquiry for Product Name: Moe-Joe Cell Car Kit

To: Todd Hathaway <[411moreinfo@gmail.com](mailto:411moreinfo@gmail.com)>

Hi there Todd,

Thank you for your inquiry.

I checked our database and we have not yet sold any moe-joe cells to Washington DC.

The moe-joe cell is still really in the beta phase, and it is experimenters, like you, who help gather field data that helps progress.

It is in the experimental phase, in other words. If you're adventurous, and would like to be a part of this, we will happily offer you some good moe-joe steel and accessories and support to have you hook it up into your Priuses.

Moshe Daniel

On Wed, Dec 22, 2010 at 9:13 AM, Todd Hathaway <[411moreinfo@gmail.com](mailto:411moreinfo@gmail.com)> wrote:

### **Store of David House Productions**

Todd Hathaway has requested more information on [Moe-Joe Cell Car Kit](#) (Product-SKU: mjc-carkit)

This is the new and improved design of the Moe-Joe Cell, and the steel is totally non-magnetic. It fits perfectly together for a solid and durable cell. It is the same as the water charging kit except the bottom "female" 5" does not contain holes for water

On Tue, Dec 21, 2010 at 12:31 AM, Gary Vesperman <[garyvesperman@yahoo.com](mailto:garyvesperman@yahoo.com)> wrote:

Todd,

Some of the people who wrote in [http://peswiki.com/index.php/OS:Moe-Joe\\_Cell:Feedback](http://peswiki.com/index.php/OS:Moe-Joe_Cell:Feedback) got poor results with the Moe-Joe cell. Reasons I can think of:

The O2 sensor signal wasn't modified to fool the car's computer. Otherwise, the computer senses a fuel-air mixture that is too lean. Thus more fuel is injected.

The cell's water was either improperly charged or not electrically charged at all.

Improper installation.

I recommend you buy a pre-computer era car in decent shape.

I suggest you then install a Moe-Joe cell from Moshe Daniel.

Gary Vesperman

----- Forwarded Message -----

**From:** Gary Vesperman <[garyvesperman@yahoo.com](mailto:garyvesperman@yahoo.com)>

**To:** [NEC-TechRev@yahoogroups.com](mailto:NEC-TechRev@yahoogroups.com)

**Cc:** Michael Education <[rivedu@earthlink.net](mailto:rivedu@earthlink.net)>

**Sent:** Fri, October 29, 2010 8:36:51 PM

**Subject:** Moe-Joe spherical orgone energy accumulator

Ian,

Have you and your students ever experimented with a Moe-Joe spherical orgone energy accumulator?

It comprises of a nest of four concentric thin spherical stainless steel shells – 5, 4, 3, and 2 inches in diameter. It's filled with specially charged water. Holes allow the special water to circulate between the shells. The Moe-Joe cell does not generate hydrogen nor Brown's gas. Electrodes at the south and north poles are wired to the battery's positive post or engine ground.

The ball accumulates orgone energy. The dishwasher tubing between the ball's outlet pipe at about 30 degrees off its north pole and the PCV valve then conducts the ball's excess orgone energy into the engine through the PCV valve.

No one is sure just what then happens inside the cylinders. It is known that the temperature drops, and implosion rather than explosion occurs – necessitating a drastic change in the engine's timing.

In my compilation of "Advanced Technologies for Foreign Resorts", search for Joe cell. You will see a lengthy explanation of Joe cell theory. Links include <http://www.icestuff.com/~energy21/advantech.htm> and <http://www.linux-host.org/energy/advantech.htm>.

My compilation of energy invention suppression cases (see [energysuppression.com](http://energysuppression.com), for example) includes the story of Joe's suppression troubles.

About three years ago we bought and installed a Moe-Joe orgone energy ball in our 1993 Saturn with some dishwasher tubing from a hardware store. Tony Schwartz's Cell Guardian was also installed to fool the O2 sensor. With Tony's advice we built our own water charging device.

We then very carefully established a baseline of 30 MPG using the old highway along I-15 from Las Vegas south to Jean and also I-15 itself. After refilling the tank at the same pump and driving the same route in the same manner, we then turned on the ball. It truly excited us at the pump when we found that the Saturn's mileage increased to approximately 47 MPG!!!! The other people at the gas station must have wondered what was happening to two grown men jumping around and high-fiving each other.

The Saturn's mileage became so high that to accurately make more measurements we found ourselves taking long trips, even one uphill from Las Vegas 200 miles to Tonopah which got us nearly 50 MPG.

A car computer wants to increase fuel when its O2 sensor senses the fuel mixture becoming too lean.

The Cell Guardian we bought from Tony Schwartz is supposed to change the O2 sensor signal and fool the engine computer. We and others don't recommend the Cell Guardian. Its electronics needs to be completely redesigned and rebuilt from scratch.

Ideally an old pre-computer car would work the best with a ball.

When we put a second ball into a 1968 Dodge Charger, the idle speed dropped to a very low level – maybe 50 RPM? – so slow that apparently no ordinary gasoline engine on the planet can run that slow. A strange fog that is not steam sometimes pours out of the oil intake pipe, exhaust pipe, carburetor, etc. Carbon buildup inside the engine is cleaned out. I know because I happened to be standing behind the Charger when my friend hit the throttle while working under the hood. There was soot blasted all over my pants! Yet the Charger drives like it has a 500-horsepower engine.

We have thought of installing a ball on a diesel generator. We suspect that a diesel generator would almost not need diesel fuel with a ball. It wouldn't have a computer that would need to be fooled like a modern car.

We found the Moe-Joe cell to be a genuinely weird energy invention. When we first assembled a ball on a coffee table, without water, we discovered that sometimes we would feel drastic changes in its apparent heaviness. We would set it on the coffee table and walk away for a few minutes. When we picked up the ball again, if it felt lightweight before, it would then feel much heavier, or the reverse.

The Joe cell literature does contain references to anti-gravity. The aforementioned otherwise heavy Charger drove and rode with a suspicious feeling that somehow some anti-gravity had taken over. When I rode it as a passenger on a 35 MPH street, it felt like it was going over 50 MPH even though it was being driven at the speed limit of 35 MPH. In the aforementioned Saturn as a passenger the car had an obviously different ride when we knew the ball was working.

I can't remember any specific instances as it has been over three years since we experimented with our balls. On more than one occasion we thought we noticed some indication of consciousness besides changing weight at the coffee table.

BTW, a ball needs to be topped off with only maybe a cup of specially charged water about twice a month. The charged water itself does NOT enter the engine. It's the orgone energy that powers the engine. The engine becomes so much more powerful that the car seems to be flying.

A lack of resources stopped us from going commercial with the Moe-Joe cell. In its present configuration we found the ball not to be a consumer-friendly device. It especially needs some electronics with which to fool the engine computer by modifying the O2 sensor signal. We frequently found ourselves disconnecting and reconnecting the battery so as to restart the ball's orgone energy accumulator action by resetting the engine computer.

For more on orgone energy which is what powers the ball, buy James DeMeo's book *Orgone Energy Accumulator*. Its front cover photo of an astronaut on the moon with a blue halo around his spacesuit is what I use for my Blue Energy Corporation business card. Pretty cool business card.

## **Torsion Field Attributes**

(These were excerpted from David G. Yurth's unpublished book "Seeing Past The Edge".)

- A sizable list of attributes has been experimentally identified which demonstrates that the torsion field operates holographically, without regard to time and distance. Its operations are characterized by a variety of behaviors which have been described conceptually, experimentally and mathematically as functions of spin polarity, angular momentum and weighted waveform vector velocities.
- In August 1999, Dr. Myron Evans, Dr. Lawrence Crowell and a team of sixteen other physicists, engineers and mathematicians published the first reformulation of Maxwell's field equations in over a hundred years<sup>i</sup>. Contained in their extraordinary work are reformulations of the entire family of formulas which have been developed over the past 100 years to describe the attributes, functions and dynamics which characterize electromagnetic fields. Their seminal work demonstrates that the functions and attributes of the five primary fields, including those of the torsion field, can be expressed in terms of parallel geometricized equations<sup>ii</sup>.
- A careful analysis of the basic formulas developed by Akimov<sup>iii</sup>, Schwartz<sup>iv</sup>, Anastasovski<sup>v</sup>, Trefilov<sup>vi</sup>, Reed<sup>vii</sup>, Santilli<sup>viii</sup> and others, is extremely revealing – the most stunning thing about them is the discovery that the characteristics of all four primary fields and the 5<sup>th</sup> field [which we have called the torsion field] appear to be completely accommodated by the set of functions which comprise spin polarity in linear, longitudinal and transverse wave functions, and angular momentum at both the quantum and macrocosmic level. While there is still much work to be done here, it seems more than coincidental that these attributes are precisely what cause the torsion field to operate as it does. The formulas referred to include Einstein's equations, the Young-Mills equations and Geisenberg's equations.<sup>ix</sup>
- It has been shown that information is conveyed via the torsion field at a rate which is at least  $10^9$  times faster than the speed of light. This revelation, which is largely due to the ground breaking work of Russian scientist V.A. Dubrovsky up to 1985, has now been confirmed by at least six other laboratories in the former Soviet states,<sup>x</sup> by Prof. Dr. Guenter Nimtz and his colleagues at Cologne University<sup>xi</sup>, and Lijun Wang, Alexander Kuzmich and Arthur Dogariu of the NEC Institute<sup>xii</sup>. The group velocity of torsion waves has also independently been shown to be at least  $10^9$  times the speed of light.<sup>xiii</sup>



- The litmus test regarding this issue is found in the recent award by NASA of a contract to develop a torsion field communications system. The award was announced on August 19, 1999, under the title, **NASA Glenn Announces Breakthrough Propulsion Physics Selections.**<sup>xiv</sup>
- A practical set of experiments which reveal just how important this concept is has been conducted both here and in the former Soviet states. Here in the United States, Bill Ramsay<sup>xv</sup> describes an experiment in which Greg Hodowanec was able to record the occurrence of a solar flare more than eight and a half minutes before it was confirmed by NOAA, when the photons and particles liberated by the event entered the earth's atmosphere. He was also able to measure the magnitude of the event, as it occurred<sup>xvi</sup>.
- Nick Anthony Fiorenza and Alistair Couper have both reported on the use of gravimetric devices to record the actual transit locations of the planet Pluto, orders of magnitude faster than was possible using measurements based on conventional light wave sensing devices.<sup>xvii</sup> The devices used by Fiorenza and Couper have been employed by Russian astronomers to determine the precise real-time locations of stellar formations and planets<sup>xviii</sup>. The results of their work bears heavily on the assumption that information contained in any single location in the Cosmos can be instantaneously obtained at any other remote location, regardless of the extent to which events are separated by time, space or distance. This assumes the means of observation are engineered to comport with torsion field dynamics rather than relying on the data transfer rates associated with radio frequency emissions [light].
- We have reason to believe, based on the ground breaking work of V.A. Ablekov, David Bohm and Karl Pribram<sup>xix</sup>, that the torsion field is holographic. The combination of the features identified by their research suggests that the phenomena associated with Bohm's Implicate Order and Pribram's holographic model of human consciousness, which are otherwise inexplicable, can now be accommodated.
- Unlike electromagnetism, where analogous charges repel and opposite charges attract, in torsion fields similar charges attract and opposite charges repulse.<sup>xx</sup>
- As a torsion field is generated by the classical spin of a magnetic plate, we can observe and measure the precise effects of the alteration of spin state of the object or system which is encompassed by it. At the Institute for Problems of Materials Science in Kiev, scientists have for more than 25 years used torsion field generators as an essential component of the apparatus used to manufacture exceedingly exotic materials, for which we have no comparable products in the West. These include mono-molecular powdered metals, solid state energy accumulators and certain varieties of atomically engineered carbon.<sup>xxi</sup>
- Torsion field emissions are non-dissipative and are not attenuated by the interposition of mass or the effects of distance. Torsion fields cannot be screened by any known materials except aluminum, nor any known combination of materials or fields.<sup>xxii</sup> The results of the 1986 Moscow M2 torsion wave communications experiments have been widely distributed. In this demonstration, a directional torsion field was modulated with a simple variation of the Morse code. The signal was instantaneously received at a point more than 22 kilometers distant, using a similar low-power gravimetric signal detection device. The signal was passed through steel reinforced concrete more than 50 meters thick, after having been propagated through a mountain more than 10 kilometers wide. Variations of this experiment have apparently been successfully performed in a number of other locations in the former Soviet states since that time<sup>xxiii</sup>.
- The absence of loss of signal strength, referred as attenuation, during the spread of a torsion wave group, suggests that long-distance communication may one day be possible with the use of very low transmission power and unlimited bandwidth. The fact that torsion waves are not attenuated [weakened] by any known material substances or fields suggests that we

may one day be able to devise systems which are capable of communicating through water or any density of physical material<sup>xxiv</sup>. This concept also suggests that we should be able to devise communications systems capable of supporting real-time communication without regard to the vast distances of space.

- Since all known substances possess a non-zero collective spin state [this means, in simple terms, that everything is always in motion at all scales], then all substances must also create and exist within their own localized torsion fields. The expanse and frequency structure of any substance is determined by its chemical composition and the expanse structure of its molecules or crystalline lattice. A clear understanding of these mechanics will enable us to commercialize energy storage devices which have energy conversion characteristics well in excess of gasoline [650 watt hours/kg].<sup>xxv</sup>
- At the Institute for Problems of Materials Science located in Kiev, Republic of Ukraine, a scientific team led by Academicians Trefilov, Tovschuk and Kovalyuk created a solid-state energy cell which produces 850-1040 watt-hours/kilogram, in laboratory prototypes. This is at least 35-50 times the energy density of any known conventional energy storage devices developed in the West. The reliability of their claims regarding this technology has been verified by INEEL, DARPA and the AMTL. A key element of their crystalline lattice deposition method relies on the effects of a torsion field beam.<sup>xxvi</sup> Scientists working at Sandia Laboratories in Los Alamos, New Mexico, have reported the successful development of a thin-film solid-state energy storage device which reportedly demonstrates energy density in the range of 250-400 watt-hours/kilogram.
- It has been shown that torsion fields demonstrate persistence. This attribute is referred to in the literature as a "residual field effect."<sup>xxvii</sup> A torsion source of a defined expanse and frequency has been consistently shown to polarize the localized region of the physical vacuum. Once the energizing space-spin source has been put in motion and a torsion field created, and then removed to another place, the space which surrounded the torsion field generator will continue to exhibit the effects of the torsion field for as long as several hours.
- If we can delineate the dynamics which cause the persistence of residual field effects, we will be able to explain and harness the functional features attributed to dowsing, magnetically effected molecules of water and so on.<sup>xxviii</sup> A clear and present example of the applications made possible by this information is illustrated by the work of a team of physicians from the CIS. Using the work of V. Kronin as the basis for their treatment modality, a team of Russian physicians has been working at the laboratories of the Centers For Disease Control in Atlanta, Georgia, and Baylor University Medical Research Center in Houston, Texas, for more than a year. Their project demonstrates a revolutionary new medical treatment modality which capitalizes on this attribute of torsion field mechanics, to fundamentally cure patients infected with the hepatitis-C virus.<sup>xxix</sup>
- Teams of scientists from more than 50 laboratories have shown that it is now feasible to deliberately perform a wide variety of carefully calibrated functions using torsion field devices.<sup>xxx</sup> We can build torsion field generators of both static and radiating types.<sup>xxxi</sup> We can select, adjust and fine-tune frequencies modulated into the field with a high degree of precision.<sup>xxxii</sup> We can modulate into and retrieve data out of a torsion field, including via two dimensional spin matrices.<sup>xxxiii</sup> We can operate efficiently in a variety of different modes of signal radiation.<sup>xxxiv</sup> We can adjust and smooth the intensity of the S-waves and we can operate in both left and right S-wave chiral helicities.<sup>xxxv</sup> (S waves are spinor waves.)
- Torsion fields can be detected, generated and switched on and off (such as in communications applications).<sup>xxxvi</sup> We have demonstrated that torsion fields can be designed to interact with laser beams<sup>xxxvii</sup>, to modulate light frequencies and perform other functions. Torsion fields have been demonstrated to have a specific effect on biological processes<sup>xxxviii</sup>

and have been shown to be generated by certain melting and solidifying materials.<sup>xxxix</sup> Torsion fields affect the oscillation of quartz crystals<sup>xl</sup>, affect the functional characteristics of some electronic components<sup>xli</sup>, and have been shown to have verifiable, measurable and predictable effects on gravity.<sup>xlii</sup>

- In practical fact, we can point to a long list of applications which could benefit from carefully planned applications engineering which recognizes the properties of torsion fields and harnesses them for practical purposes. Among these are revolutionary new propulsion systems, communications devices, long-range sensors, astrophysical monitoring and metering devices, geo-physical devices which can be calibrated to locate mineral deposits, water and subterranean structures; photographic applications which are capable of imaging the interior of virtually any substance or structure without X-rays and so on.

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(2) Jordan Maclay (Quantum Fields, LLC) Richland Center, WI) and MEMS Optical, Inc. (Huntsville, AL) proposed an experimental and theoretical study of quantum vacuum energy. The experiments will use micro-electromechanical devices to test force and energy effects by quantum electrodynamics.

#### FEASIBILITY OF COMMUNICATION USING QUANTUM CORRELATIONS

For all space missions, it is imperative to have reliable communication links to transmit data, computer codes, or other information. The current electromagnetic communications technologies (including laser, RF, X band, S. band) do not scale well as the mission distance increases. With current methods, the power, weight, cost and complexity increase rapidly with distance, while the transmission reliability decreases. We propose to explore the possibility of a revolutionary approach to communications based on recent theoretical and experimental developments in quantum physics, in particular based on quantum correlations between entangled atoms or ions (EPR pairs). Recent experiments have verified the existence of quantum correlations between entangled photons, in which the polarization measurement of one photon is always correlated with the measured polarization of another, distant photon (*this is a specific reference to the work of Nicolas Gisin and his team at CERN, Geneva*). Theory indicates it is not possible to use standard quantum mechanical measurements on entangled systems, such as polarization correlations of photons, for communications. Current theory restricts but may not deny the possibility of using quantum mechanical correlations in small movements or adiabatic perturbations of entangled atoms as a communication means. Further, if non-linear modifications to quantum mechanics suggested by Nobel Laureate S. Weinberg are present, then EPR communications is clearly allowed. If experiment verified that the use of EPR pairs was viable, it should be possible to develop an almost ideal communications system, a compact, low weight, communication architecture in which no broadcast power or antenna is required, no environmental noise is present, the signal does not fall off as the inverse square of the distance, and high data rates with complete security are possible. The purpose of this effort is to investigate the possibility of using quantum correlations in the adiabatic movements of atoms as a means of communication, to perform an initial theoretical feasibility analysis, identifying the key issues with such an approach, and to propose an experiment to resolve some of the fundamental questions.

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