

Title-

THE UNIFIED FIELD AND THE BIOFIELD

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Abstract –

The Unified Field Theory should take into account (in addition to electromagnetic and gravitational fields) a biological field too. This is my opinion about the biofield (in two parts, emphasizing the first paragraph of part 2). Even though Einstein said one of the most important aspects of science is imagination, some impatient people will regard this article as fantasy because it does not express its conclusions as equations (which is only one aspect of maths - however, the article is built on the equations of others). **Keywords –**

String Theory x
Gravitational Waves x
Unified theories x
Brain x
Electromagnetic Fields x
Genetic Engineering x
einstein x
Biofield x
hyperspace x
Surgery x
Star Trek x
Resurrection x
Global financial crisis x
space-time colonies x
Bill Gates x
Time magazine x
Scientific American x
3D printers x
band-gap technology x
"Tamara Science"

Content –

Star Trek replicator & transporter, Earth as Paradise + Money Free Zone That Colonizes Cosmos, Geocentric Cosmos (not physically)

This section of the article starts with Bill Gates, the co-founder (with Paul Allen) of the software corporation Microsoft. This is because part of the inspiration for writing this was a comment I read in a magazine about Bill Gates being the world's richest man. It ends with the human race's own technology causing it to

transcend money and develop a society akin to paradise on Earth - i.e. we enter a doorway to a new world . . . a Stargate.

$E=mc^2$ (Albert Einstein's formula unifying energy [E] with mass [m] and relating both to the velocity of light squared [c^2]) makes a person suspect the apparently solid world of matter is really an illusion, and you and I are actually made of insubstantial energy. String theory, which rose to the forefront of physics during the 1980s, proposed that the fundamental constituents of nature are not particles but one-dimensional structures called strings. This heightens previous suspicions, and we wonder if the one-dimensional structures are in fact pulses of energy. Then along comes "TIME Australia" magazine's Feb. 26, 1996 article "What's Hiding in the Quarks?" (which says quarks seem to be made of even tinier things). Finally, we might feel justified in assuming our suspicions were correct and that these "even tinier things" MUST be pulses of electromagnetic energy (meaning all substances are indeed insubstantial).

All forms of electromagnetic energy (radio, microwave, infrared, visible light, ultraviolet, X-ray, gamma) travel as waves. How do we create an analog structure like a wave from a digital structure like a pulse? By adding the necessary number of pulses to the medium in which a wave travels to form the wave's amplitude (height) and wavelength (distance from crest to crest). How could we create matter from waves? By superimposing waves of visible, gravitational*, magnetic, electrical, etc. frequencies into holograms (near the end of the '80s, the magazine "Scientific American" reported that holograms have been made not only with visible light and X-rays, but also with microwaves and sound waves).

* Einstein predicted the existence of gravity waves but they haven't been discovered yet.

If this article is correct, pulses are the basis of both waves and matter. Therefore, matter and energy would be digital in nature. Can this be extended, via strings, to space itself as well as to time (the 4th dimension - what I'll term "subspace", since I'm a fan of science fiction)? **In 1917, Einstein calculated that 3 universes could exist in the cosmos: can strings extend the digital cosmos of 3-dimensional space and 4th-dimensional time into a 5th dimension (let's call it hyperspace)?** Assuming we live in a digital cosmos, we are reminded of that other digital entity called the computer - and must wonder if all those pulses of energy result in a cosmic intelligence that is all-powerful and present not just everywhere in space and time, but also "outside the universe" i.e. in hyperspace. The existence of such a "cosmic computer" would imply that both living and nonliving matter may be altered by programming, when people learn how to do this. Invasive procedures such as surgery would become obsolete.

The waves of energy which holographically compose matter could be digitised and transmitted over the Internet - and the receiver's computer could be

equipped with sensors to decode the mix of frequencies, as well as an assembler that reproduces this mix and radiates it to create products indistinguishable in any way from the original product (the frequency mix could also be electronically recorded). The difference between life and nonlife appears to be merely one of complexity. So after inanimate objects and parcels have been successfully produced and emailed (today's electronically controlled 3D printers may be the first step to replicators), more advanced software will be developed and allow things like fruit and vegetables, or living animal/human tissues, to be transmitted (or transported) between places i.e. in space and between times (I believe time will be navigated in the future just as ordinary space is today).

This advanced software could also be used to genetically engineer people whose genes have been disassembled into subatomic, electromagnetic pulses and manipulated by computers. An opportunity to possess an eternally youthful body and a brain free of criminal tendencies may therefore exist. When we develop this electronic hardware and software, and also acquire the science-fiction-like technology of time travel, everyone who has long since died could have their minds downloaded into reproductions of their bodies and be resurrected (establishing colonies throughout space and time would prevent overpopulation).

These colonies throughout space and time would be composed of what we'd call aliens or extraterrestrials. I may be wrong but I think they'd be our descendants (our descendants could only exist before us if time is not exclusively linear). I've heard it said that angels rejoiced at the creation of the Earth. I don't think this necessarily has a religious meaning. I suspect it indicates an unconscious belief in every mind, ancient or modern, that Earth really is important ... that we're not just an insignificant rock orbiting an average star. Maybe life on Earth is the starting point for development of the magnificent Universe that awaits us... and for extraterrestrial life that descends from us, wherever and whenever it may be found. Since they might be "separated" from Earth of the early 21st century by billions of light years and could also be billions of years in either our past or future, they might see our present global financial crisis differently from us and might view it this way:

"Until the 1920s, money was backed by gold in many countries (the gold standard): a pound note or dollar bill could be exchanged for a given amount of gold (hence such words on banknotes as 'promise to pay') and the amount of money issued by banks was related to the amount of gold held. The first bank notes issued in Europe were by the Bank of Stockholm in 1661. In the absence of general confidence that it will persist, the gold standard loses its advantages e.g. if it is regarded as permanent it gives almost fixed exchange rates, which facilitates international trade and credit (its disadvantages then assume control – it deprives countries of control of their own monetary policy; and makes the world money-supply depend on the rate of gold discoveries). It seems unlikely that the gold standard will ever be restored. Money is now increasingly not in tangible form, but consists of balances in accounts at banks, exchange being by means of

cheques, credit-cards or charge-cards, and by credit-transfer, where one account is reduced (debited) and another increased (credited) by the same amount electronically. Modern systems are reducing the dependence on cash, hence the emergence of the phrase, the 'cashless society'."

(from Penguin Encyclopedia, 2006 – "money" and "gold standard" articles)

The worldwide economic crisis has the potential for many political benefits, since cooperation will be the only way to maintain and improve our living standard if monetary systems fail. The crisis would encourage domestic and international peace and sharing - perhaps even paradise on earth ...

The present global financial crisis may indicate that the world we live in today has lost stability and is on the brink of changing. Therefore, this "crisis" might be necessary to awaken us to the potential of tomorrow. Just because money has been making the world go round for thousands of years doesn't mean money will be the way of the world forever (we've been playing worldwide Monopoly for ages, but we can stop one day). We should start looking for an alternative system to preserve, and increase, standards of living now in case we need it tomorrow. This scheme should not use any form of monetary organisation or be based on gold, silver etc. It should, idealistic and naive as it appears at first, be based on mutual cooperation and the goal of ushering in a paradise on earth. We can say there can never be paradise on earth; but the human instinct to survive is much stronger than our tendency for other types of self-interest, and greed, and to not cooperate with each other. If money ceases to be an option; most people will gladly cooperate with those we would have previously regarded as competition, or even as an enemy, if it's the only way to maintain and improve our living standard.

Band-Gap Implants in the Brain

What kind of technology could manipulate the unification and zero separation of all space-time? Band-gap structures ... these are more advanced than replicators, transporters and starships. While these things can do what band-gap implants do, the implant technology is not external but is located solely within the brain. An even more advanced system - one that has the advantage of seeming more natural to many people – may be possible. That system would do everything band-gap implants do, but would rely solely on the entire universe and all space-time-hyperspace being a unification or unified field. Whatever anyone can think of can be done – as long as it doesn't violate the laws of physics (and the limits of physical law won't be understood for maybe a thousand years).

Morpho butterflies create colour by selectively adding and deleting certain wavelengths of light. Physicists have only recently devised comparable materials, called photonic band-gap crystals; and are now exploring their

use in phone switches, solar cells and antennas. No surprise, then, that some engineers are looking to the living world for the next generation of optic inspirations. I believe advances in engineering and biology will enable humans, like the morpho butterfly, to selectively add and delete certain wavelengths of light. But the word "light" need not only refer to visible wavelengths. It can be extended and refer to any wavelength of the electromagnetic spectrum. Science accepts that radio, infrared, ultraviolet waves and X-rays as well as gamma radiation are all forms of light.

Suppose matter acquires all its properties (including mass) by the superimposing of electromagnetic and gravitational waves* (computer-generated in a 5th dimension and projected into the hologram of 3+1 dimensions which we call space-time). So the day will come when we can add or delete wavelengths of matter anywhere and anytime we choose!

* The relation of EM to G waves - their unification into forms of light - is addressed in many parts of my article "Tamara Science" e.g.
Is the Universe Leaking Energy? (**particles from gravity, which is not limited to the weak form associated with falling objects**);
Unifying Gravity With the Other Forces (Includes Photon & Graviton Mass);
Digital String Theory (**they have a common mathematical cause**);
Newtonian / Einsteinian Space-Time Warping;
Interstellar and Intergalactic Travel;
 c^2 and the Atomic Nucleus;
Springy Rubber Balloon of G and EM

I anticipate people will oneday have band-gap structures in their brains that are no bigger than a computer chip (these won't require surgical implantation, but simply downloading, because of the pre-existing unified and digital nature of all parts of the universe). Photonic band-gap crystals would, of course, only deal with light in its photonic forms (energy forms such as visible light or radio waves). The band-gap structures I have in mind would need to deal with forms like genes, so they could add or delete anything and everything we choose. They might accomplish this by acting similarly to a modem that acts on a scale billions of times smaller than a modem manufactured by nanotechnology, and would be capable of manipulating digitised matter. Then they could emulate computers' copy/paste function to add things; as well as their delete function, to remove things (now that's what I call genetic engineering!) This ability must only come to fruition in a future, ideal society: it would only be wasted and abused in the present warring and selfish world!