

Brainworks: The emergence of consciousness in brain, body and cosmos

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Abstract: The field of consciousness studies is filled with useless weeds that are preventing sturdy stock and proper theories from emerging and growing. The problem is twofold: An inability to properly define consciousness in a manner that succumbs to scientific theoretical research and an inability to develop a theoretical physics model of how the brain gives rise to the emergence of conscious awareness. These problems go beyond the normal problems inherent in physics, such as those between reductionism and generalization, but are related after their own manner to this and other dualisms in nature. By taking a wholly new approach founded upon the single field unification of physics, which has already been used to define and model life (the biofield), mind and consciousness within the context of a truly unified field theory, a model of how the brain works from sensation input to memory storage and recall, to building and storing complex memories, all the way through and up to the formation of self-concepts and worldviews, as well as the whole-brain resonance necessary for simple cognition, and beyond to whole-body coherence representing the manifestation of higher consciousness. Within this context, wholly new areas of physics are opened to science, including what ends life, death and what happens thereafter.

Keywords: Memories, whole-brain coherence, whole-body coherence, conscious thought, cognition, life, mind, consciousness, higher consciousness, white matter, gray matter, microtubules, axons, neurons, neural nets, magnetic pulses, electromagnetic waves, stabilization of complexities, higher-level stabilities at lower energies, physical evolution, top-down evolution, afterlife, spirit, spirit body, NDEs, spiritual enlightenment.

Consciousness as a scientific discipline or study

Traditionally, there have been four major approaches to the scientific concept of consciousness:

- 1) The nature of consciousness is electrical and has something to do with the transmission of electrical signals across and through the synaptic gaps between neurons.
- 2) It is a quantum phenomenon originating in the lackadaisical notion of a quantized microtubule (MT).
- 3) Consciousness is neither material nor physical and cannot be explained by any physics or notion of science that we now condone or accept as legitimate. It is beyond science but not metaphysics, spiritual beliefs and religion. Some of those that feel this way mistakenly believe or adhere to the belief that physical and material are equivalent of this belief comes from the net when they are not.

- 4) Consciousness is non-material but still a physical process, phenomenon and thing. It must be a whole-body phenomenon but gives no way for this to be true even though this is the correct approach. It is by far, the minority point-of-view in science.

Both 1 and 2 have some merit, but both are extremely naive and only offer a simplistic first view, whether correct or incorrect, of consciousness. They miss the extreme intricacy and complexity of consciousness. Yes, these are contributors to consciousness, but only players in the game and as such they are grossly misunderstood and misreported. Yes, the brain is a very complicated and complex electrical circuit, or group of interrelated circuits, but it is so much more. Like all electrical theories of consciousness (limited to the brain) scientists have forgotten they are related physical mechanisms or things: every electrical change is associated with a magnetic change, and vice versa, as specified by Maxwell's third and fourth laws of electromagnetism, the ones that everyone seems to forget when it comes to biological mechanisms.

The quantum microtubule (MT) approach is even more limited being restricted to the MTs alone as the source of consciousness (how stupid is that? - my personal opinion). Other considerations of the importance of MTs is not even considered, especially their magnetic effects even though they have been physiologically linked to abnormally strong magnetic fields whose source or origin is unknown. Quite simply, quantum theory cannot explain magnetism as a fundamental force in the universe, one of its greatest shortfalls. For all intents and purposes, magnetism exists within the individual discrete points of space, whose physical presence adds to yield the magnetic fields we detect and measure, and study in physics. The main importance of MTs is thus lost in the ORCH/Or model and similar speculations. Quite simply, consciousness is not a point-by-point phenomenon, and absolutely not a probabilistic 'maybe or maybe not' phenomenon but is a physical certainty whose range and effect are infinitely and continuously extended in and throughout space over time. The MTs in axons are the first electrical/magnetic components to receive and codify sensations as memories through their ability to digitize the electrical sensations they receive.

Individual MTs are biological induction coils that emit magnetic pulses which interfere with each other's signals in such a small volume of space to form patterns within the water medium between MTs that replicates the unique interference pattern as a quantum polarization pattern that imprints itself in the space-time continuum itself, or establishes a four-dimensional pointwise A-field variation pattern in the single field as a unique A-field complexity pattern or stored memory of the original sensation. That stored memory pattern that was initiated by the MTs is limitless and infinite. It would seem from both 1 and 2, that scientists concerned with consciousness are only interested in electrical transmission, whether quantum or not, and ignorant of the third and fourth of Maxwell's laws of electromagnetism except for the purposes of detection of electrical changes in the brain (for example MRIs and fMRIs), thus missing the whole point of the magnetic variations detected by the MRIs. Nothing in the quantum or more modern quantum theories can explain or even simply account for magnetism, thus laying the foundational basis for the far greater complexity pattern that is a single consciousness, so it is impossible for any theory of mind or consciousness to be based on the quantum alone. What a pity!

The third approach marks a full breakdown of science and the scientific method. This is the metaphysical approach and depends on philosophical speculation alone without or devoid of real physics. It is purely philosophical but not natural [philosophical]. People who adopt this approach to consciousness do not seem to know the difference between material and physical. They also do not seem to know that

something that is neither physical nor material could never interact with our material/physical universe, at least we have no indisputable record of such interaction, so their speculations on consciousness, that it is bits, or information of purely mathematical, a holograph, a computer simulation, and so on, are just a form of escapism from conducting real theoretical scientific research. They have committed the heinous error the reality of reality and will never develop a legitimate theory or theoretical model of consciousness, either physical or metaphysical. They do however make for good science fiction movie material.

The fourth and final approach hits the nail on the head, so to speak, but no one has previously come forth with a comprehensive theory that uses this method. It has so far failed because there does not seem to be a valid starting point to develop a theory or theoretical structure of consciousness despite all of the angst, anguish, prejudice and bad science coming from others concerning the concept. All of this has to be considered as a whole due to the inability to isolate a complete specific definition of consciousness, as a 'thing in itself' as opposed to a condition of mind or mental acuity, that is agreeable to all who are involved in the study of consciousness.

Those people who share an interest in furthering the growth of consciousness itself by discovering what it really is as a 'thing in itself' rather than a strictly logical reductionistic conceptual approach to consciousness as a special function or condition of mind. everyone is too busy 'reducing' the problems to small points rather than asking truly appropriate questions of nature and mind necessary to overcome the fundamental problems of consciousness as a continuous extended whole. Consciousness is clearly a field effect of the whole body or living organism, not just the brain and there are two separate but related parts of consciousness. Let's call this the Mahayana or highroad approach to consciousness, because it considers the concept of higher consciousness or 'buddha nature' of a living being on conjunction with the lower common consciousness associated directly with mind and mental functioning.

Why and wherefor

The consideration of mind and consciousness as scientific concepts all but died in 1913 when Watson published his paper "Behaviorism manifesto" and converted the infant science of psychology to behaviorism at the expense of studying mind directly. The older discipline of psychic studies was converted to Parapsychology in 1930 when new lab techniques based on statistics and probability theory were used to explain ESP and similar phenomena of direct mind to mind or mind to material world contact. Anecdotal evidence was consequently thrown onto the back burners of parapsychological inquiry. This development would seem to be a natural development in the study of mind since paranormal phenomena 'seemed', for all intents and purposes, to be probabilistic occurrences of the mind as real mental processes. Yet new interests in the scientific concept of consciousness merged slowly by the 1970s and thereafter, when physicists became interested in PK phenomena, remote viewing (planned, directed and purposeful clairvoyance) and other psychic phenomena.

As more and more scientists in general and physicists in particular became interested in consciousness during the last decades of the twentieth century, a new branch of science that brought physics and neurology or neurophysiology together began to develop with graduate degrees offered in the new academic discipline by the end of the first decade of the twenty-first century and labs dedicated to the

physics of the brain or neurophysics. However, it does not seem that the two camps of physicists, neuro-physicists and pure theoreticians studying consciousness have had much common ground for working out a theory of how consciousness emerges and works through the brain, body and mind (This is a personal observation). One side is far too general and hands-on in its reductionistic approach and the other is far too esoteric and flighty, thinking only in the most general of terms, in its approach to understanding the brain and consciousness. That separation of approaches to essentially the same problem all changes below in the following theoretical model of how the brain functions based on a theoretical and purely field-physical model of life, mind, consciousness within the context of our experienced material/physical reality.

The Brainworks model

According to the 'law' or principle of physical evolution (the sixth law of thermodynamics), nature and material systems tend naturally, over time, toward the emergence of greater complexity characterized by lower internal energies and higher stabilities, *i.e.*, life, but also higher levels of mind and consciousness. That is just the way that the universe works. So, the evolution of life is both natural and ubiquitous throughout the universe as are mind and consciousness, but higher levels of each become scarcer the more complex life becomes since complexities manifest in different ways (bifurcations in evolution). The only difference between animate (living) and inanimate (non-living) material systems is one of definition based upon the degree of system complexity, so where to draw that line between animate and inanimate varies from person to person. In reality, life, mind and consciousness are all whole-body phenomena.

All material bodies consist of interactions between the same three fields: Matter/energy (me-field), (e-field) electric and magnetic (scalar B-field and vector A-field).

(1) The matter/energy or ME-field (the simple biofield as normally studied by chemists and biologists) can be designated as a stable but extremely complex space-time curvature system for the purpose of physics. In the case of humans, the functional center of the ME-field is the gut, which scientists are now calling the second brain because of the preponderance of neurons connected directly to the brain. The gut is where the body converts matter to energy as it consumes food. But the excess neurons also give the gut a highly complex electric E-field and a stronger magnetic B-field than usual in other parts of the body.

(2) The brain also has a stronger than normal B-field for an organ of the body but its E-field matches the B-field (Maxwell's third law), point by point, so it has the most complex B-field in the body due to the electrical complexity of the neural-net system. These two fields are easily the most complex in the body because of the existence of neural-nets, specific dedicated neural-net sub systems, and their overall relative complexity of operation. This electric/magnetic field structure that is the source of our self- and world-views as well as our common moment-to-moment thought processes falsely convinces us that mind as well as our consciousness is in the brain, but neither one is in the brain alone. The brain is merely the functional center of the entire e-field, which we determine to be our mind, due to this E-field complexity corresponding to the neural-net structures and systems.

(3) We also falsely believe that consciousness is in the brain due to the fact that the E-field complexity of the neural-net system creates a corresponding point-by-point B-field complexity (Maxwell's third law). This B-field complexity in the brain merely creates the illusion that consciousness can be found in the

brain since consciousness is constituted from and/or represents the complete magnetic field complexity of the whole body. Since the heart has more neurons than other organs and certainly the strongest magnetic field of any organ in the body, the heart is the functional center of consciousness.

Consciousness can only be the result of magnetic field complexities for three reasons: (a) Magnetism is a higher order than electricity in that it adds together geometric point-by-point, structurally, to increase the strength and breadth of the overall field rather than cancel out from opposites charges (or poles) like electricity; (b) Although the changing E-field and moving e-charges create the magnetic B-field, the B-field in turn directs the motion and orientation of the E-field and moving e-charges (ions). The B-field structure guides the construction of the neural-net (placement of synaptic bulbs on neurons for carrying and transferring neurotransmitters representing specific memories) and changes in the neural-net system that come with new learning and experience; And (c) There are two types of magnetic fields and they correspond to the everyday common waking consciousness as experienced in the brain (scalar B-field magnetism) and our higher consciousness (vector A-field) which is commonly limited in its ability to invoke action and awareness in the mind because it does not normally lead to whole-brain coherence and remains hidden in our subconscious or subliminal mind.

Whole-brain coherence are normally initiated by sensations coming into the brain from the outside world. They enter the white matter area along neural axons where they are stored or attempted to be stored as core memories. If the incoming memory pattern that is being stored matches or closely resembles one already stored, a resistance to storing the whole of the new pattern informs the brain in a process that initiates pattern recognition before the new incoming information and memory can be relayed to the outer gray matter area. This initiates the whole-brain coherence that results in the picture of the outside world that we see in our minds and the recognition is noted and becomes part of the resulting conscious thought. In the case of recognition, the electromagnetic handshake originates in the core and moves outward toward the gray matter area, but in the case of recall the handshake is initiated in the gray area and moves toward the core.

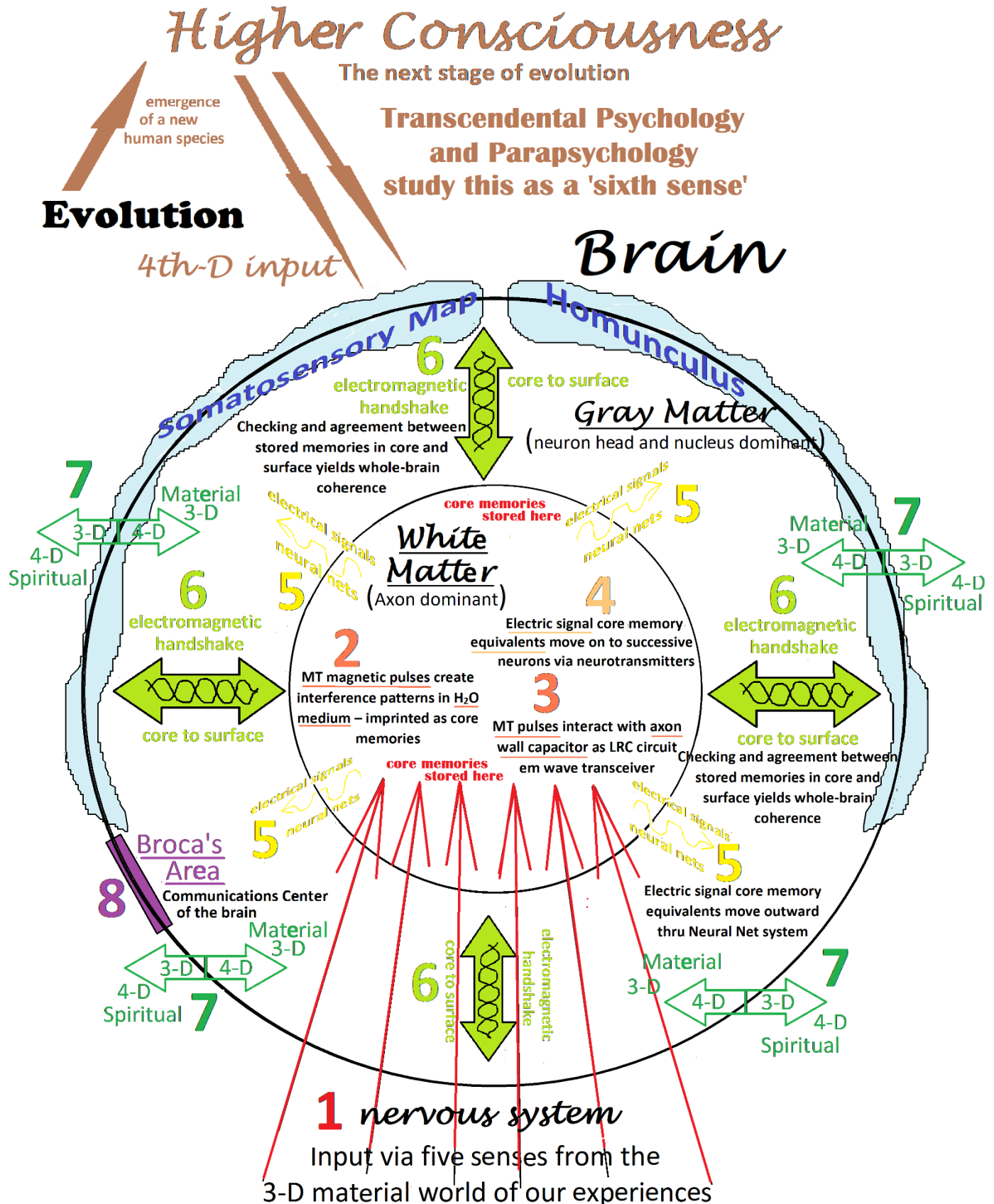
The recall process of memories is similar but the reverse of the recognition process. In a recall situation the thought that results in the recall of a memory is initiated in the gray area, or even the brain's surface, where complex memories are stored and higher thought processes are conducted and initiated. This results in a signal to the core for the mind to deal with the ensuing thought and a search for related memories. In this manner, a whole-brain coherence situation is created from the complex memory pattern stored in the outer gray area of the brain to be checked against core memories for recognition and to form the pictured thought or streams of thought in our minds. All of this happens at nearly the speed of light as modified by the material content of the brain through which the electromagnetic waves travel when the coherence is being established. The pictures and patterns that are thoughts and streams of thought in our minds are, in this sense, three-dimensional holographic-like images just as our overall higher consciousness is a four-dimensional holographic potential field density variation pattern in the single field.

Magnetism actually exists in the continuous points of space which are discrete within the fourth-dimension f space, but it also exists in extensive space as a collective property of all the points, yet it cannot be described or even defined in the context of the quantum theory that is all about the discrete-point properties of space. That is because the B-fields representing scalar magnetism are only two-dimensional (B_{xy} , B_{yz} , and B_{zx}) yet they bind together collectively yielding the B-field and giving it its

characteristic tridimensional appearance. On the other hand, the vector (extended quantity) magnetic or A-field is simultaneously perpendicular to all three two-dimensional component B-fields, *i.e.*, it is a four-dimensional discrete point extension of the tridimensional continuous points in the magnetic B-field. That is why our mind only interacts with the higher consciousness A-field subliminally or subconsciously.

When we die, we die three-dimensionally in that the interconnected tridimensional ME-, E- and B-fields destabilize relative to the three-dimensional material world. In a sense, their complexity destabilizes yielding normal matter. But the higher-dimensional consciousness of our A-field extension in the fourth direction of space (our true-self or Buddha Nature while living) is also stabilized from above, from the continuity, oneness and wholeness of the universe and the single potential field that fills it. So, it survives death as our spirit or afterlife body.

While the stability of each of these fields can have its own problems in the form of health issues (diseases, injuries, infections, and so on), the whole stability of the three in concert with each other is obviously of great importance and is commonly referred to as our immunity system. So, the immunity system is related the interactions of the three functional centers as defined by physics, and their natural tendency toward higher stability at lower interaction energies, which is a universal principle for all material systems, not just living (animate) systems.



Numerical key and explanation for Brainworks graphic

1 Input via five senses from the 3-D material world of our experiences where simple core memories are stored as A-field vector patterns in the corresponding 4th-D of space

2 Microtubules charge and emit magnetic pulses that interfere with each other in the water medium to form magnetic vector patterns that are stored in the 4th-D points of space as core memories

3 Magnetic pulses from the microtubules (MTs are bio-inductor coils) also interact with the axon walls (which act as capacitors) to form LRC circuits or electro-magnetic wave transceivers. The light waves they emit interact with similar waves from the outer surface of the brain and if they are coherent they (handshake) form resonant patterns that create whole-brain coherence or waking thoughts.

4 Corresponding electrical signals travel through the neural nets where they are sorted, enhanced, combined together, modified, categorized and made more complex to be stored and used at the outer surface of the gray matter brain and specialized regions/organs throughout the brain

5 The same electrical impulses that travel up the axons to establish MT interference patterns as memories for storage travel on to other neurons via the neural net system. The electrical signals move between neurons via neurotransmitter ions that correspond to memories, thus becoming more complex memories within the context of succeeding neurons all the way up to the gray matter area where the more complex memories that constitute a person's self-image are created and stored as a Somatosensory map.

6 When a complex memory is stored in the outermost portion of the gray matter, it checks itself by handshake with core memories. It does this by establishing a coherent electromagnetic wave pattern with the original core memories. This is whole-brain coherence that can become a waking conscious thought if the coherence pattern is strong enough.

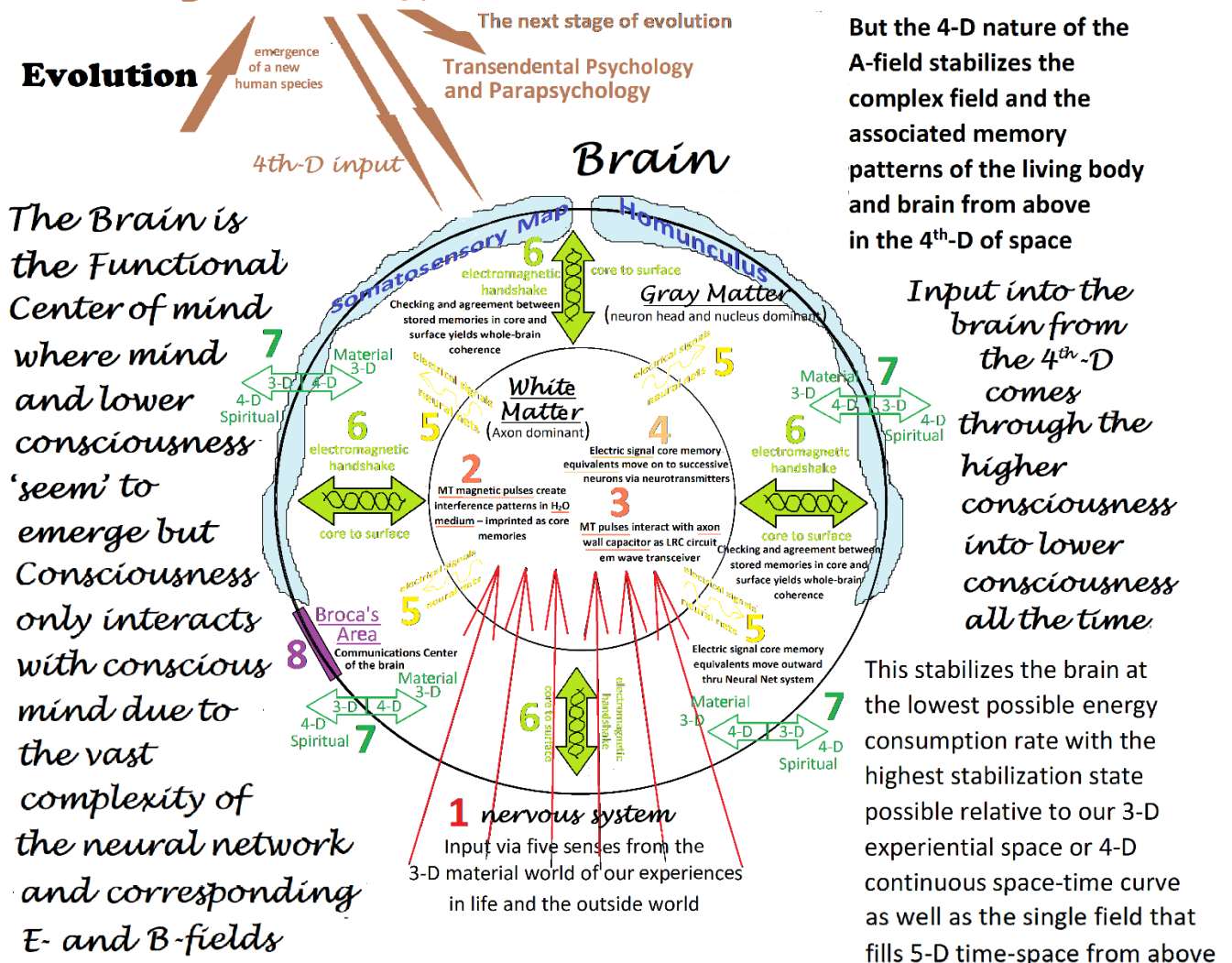
7 But the 4-D nature of the A-field stabilizes the complex field and the associated memory patterns of the living body and brain from above in the 4th-D of space. This stabilizes the brain at the lowest possible energy consumption rate with the highest stabilization state possible relative to our 3-D experiential space or 4-D continuous space-time curve as well as the single field that fills 5-D time-space from above

8 The worldview of a person is interpreted through the Communications center of the brain (Broca's Area) and must offer an accurate reflection of the universe as a whole, at some level, or psychological problems ensue. This is where spirituality influences the development of religion and interacts with the brain to create and advance science.

P S Y C H O L O G Y The new science of mind, psychology, emerged as part of the Second Scientific Revolution in the year 1900, but it was thought that both mind and our ultimate reality were both beyond our comprehension, reach, reasoning and understanding. So, in 1913 the new science of psychology was based on the study of human behavior. With this, Psychology lost its mind and science lost consciousness for nearly, if not, the next century.

The outer surface of gray matter is where our sense of self (self-image) originates in contrast to our individual experiences (memories) and the incoming sensations of the outer 3-D material world. The surface of our brain's gray matter is also where our worldview forms from that same knowledge and information and acts as the context of our being and our sense of experienced reality, but you have a deeper subconscious worldview that originates from the direct contact of your higher-self (A-field) with the continuity, oneness and wholeness of the universe. This contact acts as a handshake or self-check of what you have sensed and experienced against the reality of the universe itself or its-self. This higher worldview is the source of our natural inborn spirituality as well as our innate curiosity that leads to the development and continuing advance of both religion and science. This renders the outermost surface of the gray matter (brain) the functional contact area and barrier between a person's true-self or Buddha Nature as reflected by the 4-D continuity of the universe.

Higher Consciousness or Buddha Nature discovered about 630 BC



Input into the brain from the fourth-dimension comes through the higher consciousness into three-dimensional lower consciousness all the time, but seldom becomes vital enough relative to the neural structure based on the three-dimensional input of the normal senses to gain the strength and intensity needed to initiate the whole-brain coherence process and become conscious thought. That information is detected and transmitted by the A-field from the fourth dimension which acts as an antenna into the higher dimension from discrete points in the volume of space occupied by the material body and is transmitted by the cells to lower consciousness. The information from the fourth dimension then enters the brain to the white matter as a very subtle secondary core memory system.

Under normal conditions and circumstances, higher consciousness only acts subconsciously to regulate the worldview and true-self and subliminally shape them within the context of what is real, allowable and acceptable by the universe. In this manner a person's spirituality emerges as the subconscious

sensing or feeling the oneness and wholeness of the universe accompanied by a desire and curiosity to know and understand it better which translates into an overwhelming and fundamental curiosity that leads to the emergence and advances in religion and science. We are literally learning machines pushed onward and forward by the universe, as is all life, but we are better at it – most of the time.

Whole-body coherence

Individual cells, the smallest units of a living organism communicate with each other electromagnetically and store memories in the single field as very simple patterns compared to the core memories in the brain, to which they are mere subtle shadows. But they still add to the overall electric and magnetic fields of the body and biofield, the living being. Science took a long time to come to this conclusion, but non-scientists have been talking about cellular memory in different forms for a long time. Athletic trainers and physical educators have spoken of muscle memory for decades, but eastern philosophical disciplines and traditions have long held that cells can generate large amounts of energy called Chi, Qi, Ki or Prana, but just referred to as ‘subtle energies’ in the west.

These energies could only be generated by cells in the body and cells do need some form of unknown energy to create the electromagnetic waves by which they communicate with each other. But more to the point, these energies can only originate and be called upon for other purposes by a person’s higher consciousness because they originate in the discrete points of space and draw upon the uncommitted single field potential in the fourth dimension of space inherent in the single potential field at the cellular level. Technically they themselves are not energy in that energy is not taken from the fourth but rather potential is gathered and utilized in three-dimensional space by the cells.

The potential is gathered by and into the individual cells in a body where it is converted to energy by the cells as it is applied for material purposes, but until it is applied it is potential and not energy. A person’s higher consciousness, if properly trained, is able to collectively utilize cells in the body to gather this energy for specific purposes such as healing or psychokinesis phenomena. Science would like to claim that it knows nothing about these ‘subtle’ energies and they don’t exist, but it knows them quite well as the quantum concept of ‘zero-point energy’. However, contrary to current scientific hypotheses and claims this energy is not infinite at each point in space although each point in space has access to an infinite amount of potential from the single field in the fourth dimension of space.

In the martial arts and yoga, practitioners are considered experts or even a master when they react to a situation (such as an attack) without even thinking. Their bodies have been trained through numerous exercises, practices and attacks to react automatically without mental input and instruction. In fact, some disciplines such as Tai Chi are considered forms of moving meditation equal to that done by practitioners of Zen. These can be so beneficial that they are often recommended for the treatment of PTSD, ADHD and other spectrum mental disorders because they enhance whole-body coherence and this is entrained and attuned to the brain by the heart. These disorders are the result of misalignments of remembered experiences, neural net structures and/or memories in the core that do not match and may even contradict those stored memories that constitute a person’s self-image or worldview in the outer gray matter and surface of the brain, in which case whole-body coherence helps to reestablish proper whole-brain coherence of a mentally healthy individual and solve the problem.

Even regular intense exercise programs can be helpful in this regard because they build what trainers and athletes call ‘muscle memory’ which is beneficial and helpful when establishing whole-body

coherence within people. Professional and even amateur athletes and ball players are familiar with this phenomenon. A pitcher in a soft ball game lobs the ball over Homeplate. The batter literally clobbers that ball at high speed straight back at the pitcher's waste. The pitcher instinctively moves his glove to the correct position to catch the ball, the batter is out and everyone in the stands moans in disbelief. Why the disbelief? Because from the moment the batter hit the ball, the pitcher saw him do it, that sensation went to the brain and whole-brain coherence was established which would inform the arm and hand where to go to catch the ball, the passage of time would have been far too long for the pitcher to react to seeing the hit by catching the ball.

The nerves signal transmission speeds and normal mental process times would have been far too long for the pitcher to have caught the ball under normal circumstances and that was plain for everyone to see. But the pitcher from his practice experience had developed the ability to form low-grade forms of whole-body coherence through muscle memory that was almost instantaneous in responding to the hit and successfully catching the ball. (I have done this in a softball game, so I speak of this from personal experience)

Examples such as this indicate that we are far more than we think we are and there is far more about us and our brains than our normal senses and normal sciences tell us. It also emphasizes the importance of Tai Chi, exercise programs and other all body practices for human health and safety. All of these have health benefits beyond that which our normal sciences tell us because they directly benefit our immunity systems which is itself an all-body field stability system overseen by consciousness. In fact, when necessary, we can use our higher consciousness to draw on enormous amounts of energy within our bodies, seemingly coming from nowhere. Tibetan Buddhists have long claimed to be able to slow their heart beats to levels that would indicate that they were dead, but they would still be alive, using this energy. Western scientists have verified this ability. They also have the ability to generate great amounts of heat when necessary.

As a test for their practitioners' level of consciousness, they will leave him overnight in a mountain cave in subzero weather, naked except for wet blankets. He then uses his consciousness to raw on his Chi to warm the blankets enough to dry them out and keep him warm and alive all night. This practice has also been verified. In these cases, a person draws on the subtle energy of Chi using their higher consciousness, seemingly from nowhere, but actually from the potential of the single field through the use of whole-body cognition and not whole-brain cognition. Under these circumstances a person draws upon their own natural subtle energies, which they call Chi, but in physics it is called zero-point energy.

Our higher consciousness acts directly through the functional center of consciousness in our body, the heart, which can access the A-field through the discrete points of space where higher consciousness exists, releasing single field potential to the individual cells of the body, because the heart has the strongest magnetic field of any organ in the body, even the brain. But higher consciousness also expresses itself to the brain through whole-body coherence in the heart rather than directly through the brain and whole-brain coherence alone, such as is the case with normal or waking B-field consciousness because it has a strict one-to-one correspondence with the electrical activity in the neural-net system of the brain. So, a spiritually enlightened person can consciously use the brain to summon the higher consciousness to do his or her bidding. Higher consciousness then gains control of the whole body at the cellular level in the moment when whole-body coherence and whole-brain coherence coincide. That is

the primary reason why we are not aware of our A-field higher consciousness and its operations and actions in the same manner that we are aware of our normal B-field consciousness in our brain.

There is also some indirect evidence of the central role of the heart in directly cognizing higher consciousness in the brain in the fact that a person seeking to directly experience his or her higher consciousness through satori or nirvana, and reach a state of spiritual enlightenment, first learns to control their breathing since the heart directly operates and regulates the cardio-pulmonary system of the body and then learns to enter a state of no-self in the brain. The heart also has more neurons than the brain, although they do not form neural nets as they do in the brain. They are there for the intimate regulatory role of the heart which even entrains timing in the brain.

The state of no-self in the brain that is necessarily required to reach enlightenment through meditation (enlightenment can be spontaneous without it or meditation under special conditions) is attained by mentally countermanding and thereby ignoring any input from the five-senses and the outside world. Of course, when you die, even if only momentarily before being revived, this state occurs automatically and naturally, so you experience an NDE if revived or enter the afterlife if you are not revived. That is the major similarity between spiritual enlightenment and NDEs. The state of no-self in the brain is attained when no electromagnetic signal comes from the white matter transmitting the expected core memories necessary to establish coherence with the gray matter and the complex memories stored there including the outer surface of the brain where a person's self-image is generated within the context of a person's worldview.

Expecting input from the core memories in the white matter of the brain, but there are no signals from core memory since sensual input from the outside world has been successfully curtailed. So, the electromagnetic handshake that normally results in strengthening the signal response to the level of conscious thought or whole-brain coherence instead connects with signals formed from consciousness input from the heart and whole-body coherence is established. The signals from the heart have been derived from higher consciousness (your sixth sense acting through the points in space as commandeered by higher consciousness), thus completing whole-body coherence and gaining direct mental access to the fourth dimension of space that houses the body's spirit. In this mental state, the body, or rather its complementary point-by-point A-field extension into the fourth dimension of space, acts like an antenna picking up signals from and/or broadcasting signals (these signals are not electromagnetic in nature signals but actually a special form of pattern matching unique to the single field) into the single field that fills all of space. This establishes cognizable pattern matching with the A-field complexity patterns of other objects (animate and inanimate) and acts as a communications device with the A-field complexity patterns of other living and dead beings and humans. This extradimensional 'contact' is the physical source of everything that science and the rest of the world presently considers paranormal.

Life and Death

The difference between animate and inanimate matter or material objects is presently one of individual choice, based on biological function, especially regarding obtuse concepts such as consciousness that are normally only associated with humans in a narrow sense and living organisms in a broader sense. In any case, death is a whole new question for physics, rarely if ever before considered. Death simply means the end of life, period, but something has to have lived to die. The usual concepts of animate and

inanimate go beyond this distinction in that inanimate objects are dead (non-life) but have never lived and died. Inanimate really means something more like non-capable of ever having life than something that has lived and died. But we now have a new definition of the difference between animate and inanimate, so it is no longer so simple a concept. According to this theoretical framework, the difference between living and non-living is one of the level of complexity of any given object or material system's structure, at least while any given material object or system is alive.

As if the question of life has not been a problem for centuries, this definition of 'life' opens up a whole new field of inquiry, a can of worms if there ever has been one before, for the philosophical meaning of life and with life comes death. If that is not enough, including Prigogine's Principle, the natural emergence of material and physical complexities described in Chaos theory (linear dynamics), and combining them to form a new and universal law or principle of physical evolution will certainly shake the very foundations of science and everything we know. This change in thermodynamics is necessary and long overdue since thermodynamics, despite its broad and overwhelming applications to everything in nature, has never been able to explain something so simple as the evolution of a planet or star system which would seem antithetical to the concept of entropy, let alone a simple living organism.

This is not just a problem for professional scientists and philosophers, it is going to become a wholly new subject of debate for everyone especially when the new single field theory definition of life based on the interrelationships and interactions between internal field complexities--matter/energy, electric and magnetic--of any given living material object or body and its spatial point-for-point virtual pre-consciousness potential field is added to the mix from thermodynamics and the quantum theory. Natural philosophers of all types are about to have, literally, a field day of new debates on this subject. By the same token, death and the possibility of some portion of a living being surviving death, what is called the afterlife, have now become a serious issue of discussion, not just in natural philosophy, but also in physics proper.

Under these conditions, death can be interpreted and seen as the physical destabilization of the material interrelated/interacting field stability complexities that constitute life--matter/energy, electric and magnetic-- beyond repair, reconstitution and reconstruction. This can include permanent disruption of one or more field stabilities by trauma, disease, physical chemical or biological disruption, too much of something (water in the case of drowning) that is normally necessary for life, too little of something that is normally necessary for life (choking and lack of air or oxygen, no water to drink, or food and nourishment in the case of starvation). And even warfare, murder and suicide (choice), and old age (no choice). But no matter how death occurs, it is always tridimensional material and only affects the me-, e-, and B-fields.

There is no physical, nor any other reason, why or even how death should affect the four-dimensional A-field structure (Complexity pattern, a person's higher consciousness or 'true self') because that field structure is permanent and stable beyond support from that person's three-dimensional material existence. The A-field is that part of a human being or any other living organism that extends beyond the space-time curvature complexity pattern of the person's ME-field (biofield) point-by-point (both geometrical and discrete) into the higher dimension of space. In that context, it is equally stabilized by the continuity of the single field itself, *i.e.*, the rest of the universe. In fact, any living beings' A-field is the source of that living being or organism's 'spirituality', which is our innate natural knowledge of our constant and continuous connection with the oneness and wholeness of the universe and all other

beings. Human religion did not invent human our spirituality. Our natural spirituality invented religion to consciously express itself to us and manifest itself in our lives.

Every living being's higher consciousness survives death, in that each living being's highest attained level of consciousness, its awareness of its own awareness of its being during life, *i.e.*, all of its experience, knowledge, learning and memory patterns, survive death intact as totality of that being's A-field pattern. It's A-field pattern has no way to dissipate into the single field in the same manner that that person's past living three-dimensional field structures have dissipated into three-dimensional material world (decayed). But having said that, whether any particular living being's knowledge of its physical situation and new existence (survival) after death depends on its state of consciousness when it died, *i.e.*, (1) the level attained by that being's consciousness (especially its spirituality) it died and (2) the cause and circumstances of its death. For example, if a person has had and remembers a profound NDE or if that person has attained spiritual (mystical) enlightenment by any manner, then that person's neural net has been rewired by the experience and prepared to take advantage of that experience for future advancement of learning, knowledge and experience.

That person has intuitively experienced its own higher or true self (the greater self within context of all four dimensions of space), its Buddha nature or 'spirit', within the higher fourth dimension of space and will intuitively experience new sensations from that higher space in the future. Its proverbial and legendary 'sixth sense' has been consciously activated to one degree or another within that higher space. In other words, that person's higher level of consciousness by which that person has an awareness of its experience within the higher fourth dimension has been hard-wired into his or her brain. That person or being is now primed to have a conscious awareness and experience of his or her own afterlife during that afterlife.

That experience is not logical in our normal sense of logic because the higher fourth dimension of time-space does not exactly follow our three-dimensionally biased logical systems or concepts. By the same token, a strictly four-dimensional physics would be different from our three-dimensional material physics but the physical conditions of the fourth higher dimension influences and even determines our normal three-dimensional physics. Our higher logic is, as is the higher space, the source of our purely intuitive intelligence because the single field is not energy, nor is it material, and not just those physical elements from which our normal world is constructed but, rather it is purely potential, conservative and continuity. That is why NDErs and enlightened mystics cannot logically explain their experiences. Our logical and lingual systems are based on that same part of the brain (the communication center called Broca's area) that develops our tridimensional sense of logic and spatial orientation (geometric sense) as well as our senses of harmony, music, science, religion, linguistics and language. As a secondary function, Broca's area (as the communications center of the brain) is also important in the development of the electromagnetic phenomenon that we interpret as whole-brain coherence or conscious thought and streams of thought. But of course, all of this ends when we die. Or does it?

Everything in three-dimensional space is extended point-by-point into the fourth direction of space (From our point-of-view) and thus has a counterpart in the fourth dimension of our overall complete time-space continuum. That extension would be something like a four-dimensional hologram of magnetic vector A-field potential within the overall universe. Our tridimensional existence could even be considered a projection of the four-dimensional hologram of our single field potential variation patterns (A-field complexity patterns) on our three-dimensional surface, a lower-dimensional projected

(predicted reality from the quantum/wave collapse perspective) reality of our true or truer existence than we normally experience. From the four-dimensional point-of-view our three-dimensional reality is a colorful shadow or solidification (the densest possible portion of the single field) of four-dimensional density pattern changes occurring over time, a screen of a greater reality playing out in a higher dimensional theater (space).

Our surviving afterlife 'body' or spirit is our higher consciousness (a magnetic vector A-field complexity pattern) from our three-dimensional point-of-view, or a complex and a multifaceted single field variational density pattern from the four-dimensional point of view. It is an individual independent discrete structure within the single field (potential manifested), but it is also a continuous non-sparable portion of the single field (non-manifested) within the rest of the universe. Under these circumstances, it could and should still be conscious of its 'self', its new self, and its new environment if it had obtained a high enough or sufficient level of consciousness while the person that it had been was still alive, but its new physical environment and surroundings would seem strange to it at first, *i.e.*, it would not necessarily still be attached to our three-dimensional surface that is continuous within itself, but discrete from the other parallel infinitesimally thin surfaces that constitute the overall fourth-dimension of space.

That A-field density pattern would constitute the 'spirit' or 'spirit body' of that person after death. Whether it is the soul or not is another question that physics cannot answer, but it would at the very least be an important part of the soul if it is not the soul its 'self'. If a person does not believe in any form of existence after death, or an afterlife, the new spirit's brain might not cognize its new surroundings and possibly even block itself off from any new sensory input from the cosmos. The new 'spirit' could thus experience a pervading black darkness, a lack of light because each point in the single field is potentially a virtual photon. That is why a person who has an NDE remembers experiencing a white light during the ND experience. It would be a very brilliant white light because it would be a combination of all wavelengths (or frequencies but vibrationless frequencies with regard to the individual discrete points of four-dimensional space) of light, not just the visible spectrum. This same characteristic of the four-dimensional space is also the true physical source of the 'tunnel of light' that people who have had ND experiences report afterwards. They are just describing their four-dimensional experience in three-dimensionally biased logic and terminology.

The second important point for the development of NDEs and spiritual enlightenment with regard to the reality of an afterlife and the experienced awareness of the higher dimension of space depends upon the conditions, cause and circumstances at the moment of death itself. In a sense, the person carries their cause and circumstances of death into the afterlife. A person with love in their heart when they die is opened immediately and into the higher dimensional and easily makes the transition between, life, death and their new awareness of the afterlife state of being. On the other hand, a person with hate in their heart does not make the transition easily and depending on the quality, type, strength and duration of that hate does not make the transition to an understanding spirit until that hate is dealt after the person dies. If a person dies peacefully, the transition is easy and depends only on their - karmic-like experiences.

But if a person dies during battle war, the whole becomes very complicated and problematic but not hopeless, if the person dies while killing others or committing some form of heinous crime against others, the transition to a peaceful afterlife of full awareness is difficult, if even possible at all. These

people create their own hells to one or another degree of mayhem and suffering. But in the end the universe is the final judge of their state of being and knowing after they die, but the universe is not itself a being like God so does not willfully and intentionally pass judgement. Judgement is relative to the person's karmic-like life experiences. We cannot fault or second judge the universe on these matters because, quite frankly, the universe knows everything and the consequences of everyone's action and interactions while living and that is something that we cannot know or judge.

There are fundamental laws, rules or principles that define the universe and the universe follows them automatically. These form the basis of our physics even though the concepts they regulate are not covered, represented or even considered as physical at the present state of our physics. For example, our sense of morality is a function of our higher consciousness and thus based upon the physics of the higher dimension of space and the internal evolutionary nature of the universe. Our purpose of existence, or rather that of all life, is to give or contribute to the universe a way to learn about and understand its own self. It has nothing outside of itself to determine what it is. But our consciousness is added to that of the universe when we die as is the individual consciousness of every living organism and creature in the universe. So, anything we do that would disrupt, threaten, adversely affect or cut short this process, *i.e.*, subtract from the possibility of learning and understanding everything by the universe, denying it the chance to gain more knowledge and experience of its own self for advancing its own consciousness, would be immoral. Thus, killing a person or even oneself, would be taking away from the universe that person's chance to further expand his own consciousness for the sake of the universe and its universal or cosmic consciousness.

We must learn everything that we can during our lifetimes to add that to the learning and experience of the universe upon our death and our knowledge must be as true and accurate as possible so it does not mislead or misinform the universe. This last truth gives us the very impetus and motivation that drives science forward to ever greater accuracy as tested and verified by nature, the universe. However, a person can die by choice and not be condemned for committing suicide if that choice is made to save the lives of others, a selfless act for the universe because it further advances universal consciousness, or if that person can add no more memories or knowledge of value for the universe to what he or she has already acquired for the universe. Theft, intentionally hurting other people in any way, means, shape or form, especially by theft along with many other immoral acts are, in the end, detrimental and damaging to the overall consciousness of the victim and thus the universe, and thus immoral in our judgement.

The very fact that our actions during life toward others affects our own afterlife in this way, is quite like the eastern concept of karma, especially if we consider the possibility of reincarnation as a means of advancing our overall levels of consciousness over many subsequent lifetimes, and that is a distinct possibility in this physical model of consciousness. This also means that something like Karma has a role in the further evolution of individual consciousness during a person's lifetime in each and every individual as well as collectively in each living species as a form of collective consciousness. Collectively, each discrete geometrical point in the universe adds together with all other points to form a virtual pre-consciousness potential field that favors and pushes physical evolution forward, as defined in the sixth law of the new thermodynamics. It is a fundamental principle of the universal and each type of field that constitutes a living organism can contribute to the overall evolution of each and every living being as well as collectively to each biological species.

Evolution, not entropy, is 'times' arrow', if not the fundamental source of our experience and concept of time itself. We can interpret this as meaning that everything in the universe is, both individually and collectively, evolving toward developing higher and higher levels of consciousness and perhaps even something beyond that which we, the human species, have not yet discovered. This model of evolution of consciousness, in which both mind and consciousness can change a species genetics enough to initiate the emergence of a new complexity which we interpret as an overall genetic evolutionary leap forward. Within this context, the theoretical model predicts that our Homo sapiens species is about to evolve into a wholly new species, Homo paradoxus, that will be born with neural net wiring and other features that enhance if not gives us spiritual enlightenment at birth, hereditarily.

As a prediction from a theoretical model, the possibility of our next step or leap in evolution occurring from the top down, from human collective consciousness to individuals' human genomes, has now become a reality. And this new reality places evolution back in the hands of scientists and takes away any imagined pretense to adopt what has become known as 'intelligent design'. For example, this new form of top-down evolution, from either mind or consciousness to the body, can easily explain the Cambrian explosion, which intelligent design followers claim can only be explained by a religious form of intelligent design. They claim that only a religious form of intelligent design (where God is that intelligence) can explain the Cambrian explosion. This case forms their best argument for science to adopt a religious based concept of intelligent design, only now it has been found that that intelligence is inherent within nature itself as interpreted by single field theory physics, not in religion. And the physics goes even further in its explanation than intelligent design could go.

By the beginning of the Cambrian explosion, unicellular organisms had banded together in complicated sponge-like colonies that increased their chances of survival. This new development of vast colonies became so complex and complicated that they could not survive efficiently on the rudimentary form of communication between individual cells that was necessary for the effective stability of the whole and operation of the colony, *i.e.*, electromagnetic signals. So, their minds, or the colony's collective e-field took over and caused an evolutionary leap or new complexity to emerge in the form of simple and then more complicated multi-cellular organisms, *i.e.*, animals, insects and such. Those animals displayed right-left symmetry in their bodies because the e-fields themselves were two-sided representing the positive and negative nature of the e-fields. But that was not enough.

The emergent complexity of mind had to determine the difference between how to proceed further along the evolutionary path given two sides of a dualism that is found in nature, the differences between form and function. So, a bifurcation, or natural branching, occurred in the evolutionary leap along the lines established by the duality, between form and function. In cases where form rules, the plant kingdom emerged, that is why plants outward forms, structures or shapes can be represented and/or approximated by Mandelbrot and Julia sets, chaos generated geometrical figures. Animals, on the other hand, evolved according to function rather than form. In order to function successfully, effectively and efficiently, mind created neurons, specialized cells that could manage the life of the first simple animal organisms. Then as evolution continued and animals became more complicated, lesser complexities formed neural nets, brains and nervous systems for mind to control animals. This explanation is an application of and can only be supported by the above theoretical models rather than a religious based intelligent design, or either the classical genetic or Darwinian evolution theories.

Furthermore, the emergence of Homo sapiens in the evolutionary tree of Hominids three-hundred-thousand years ago with far more complex and multifaceted brains than were necessary for simple survival in a three-dimensional material world was a similar case of Mind top-down driven evolution. For our survival at that time in human history. We, or science, have no idea why nature would have given us a brain too complex than that needed for simple survival at that time. The brain that emerged in that evolutionary leap to Homo sapiens essentially the brain as it appears today, except for small changes. Why we inherited that complex a brain has been a mystery for a long time, but the answer is now clear. Since we had been so successful at surviving in our three-dimensional material world of common experience, nature in conjunction with our minds decided that we finally needed to learn about, gain knowledge of, and begin to experience the higher fourth dimension of space, that part of our true physical reality that we had never needed before.

Over the next three-hundred millennia we very slowly and cautiously developed our natural sense of spirituality which finally manifested itself in our world of experience as religious thought and later as natural science. We formed different types of early religions, beliefs and religious perspectives: From being of and part and continuous with nature, to seeing ourselves as separate from nature by developing an early concept of 'self', to animism, then human-like gods that controlled different aspects of nature, and gods who acted with human like emotions, weaknesses, faults and shortcomings, to a single overpowering and mysterious God as creator, and finally to a supreme being characterized by a cosmic consciousness.

We also learned that, or rather became aware that at least some part of us survives death and the concept of an afterlife began to slowly develop. But the concept of an afterlife was taken over by early religions which was all that early humans had to explain and understand their material surroundings, natural events and experiences that nature threw at them. Later, religions were politicized and used to help control the newly forming societies. The point is that spirituality and the possibility of an afterlife were ingrained and deeply-seated into our minds and consciousness long before religion and other fundamental concepts of nature ever evolved in our minds and these were the first significant results of nature having given us our vastly more complex brains so that we could finally learn about, understand and experience the fourth dimension of space or five-dimensional time-space (as we now understand it), which represents our true and complete physical reality.

In the past thirty-two millennia, we have finally come to the point in our continuing evolution whereby we can accept and experience the existence of the higher dimension of space. Our brains and memory banks have been filled to and probably beyond their present capacity levels with enough accurate information about our physical and material existence that we are ready for the next step or leap in evolution. This new evolutionary leap that we face in the near future would have been thought impossible as late as two decades ago, but within the last decade a new sub-field of study in genetics has emerged called epigenetics, and this possibility could be explained within epigenetics given the accuracy of the theory stated above.

The next step

Our purpose in life is the same as all living beings, but since we have reached a higher level of consciousness than most living beings, we have a moral obligation to fulfil that purpose that lesser conscious beings and organisms do not have to follow. Given the sixth law of Thermodynamics which

explains evolution of physical systems, the highest-level physical system that we know of is consciousness so the universe is pushing our evolution and that of all living beings and organisms by increasing levels of consciousness. We just happen to have the highest level on this planet. But we must also actively seek higher levels of our own consciousness according to the 'will' of the universe so that when we die our best level of consciousness can be added to that of all other consciousness in the universe and be part of, but still individual within, the greater cosmic consciousness of the universe. That is our purpose in live. Increasing the level of consciousness in the direction of our higher consciousness is our moral obligation to the universe as is helping to increase the level of other people's' consciousness as individuals and collectively.

To do so we must learn and experience our world in as many different ways as possible. We must have as many positive experiences as possible and gain as much positive knowledge as we can, but we must also explore new things and learn new things, advance science, medicine, the human condition and better the lives of others. We must never stop learning and experiencing, but we must only learn and experience those things which are true to the universe, which is anathema to bad science, nor should we stand in the way of new and better science for personal reasons. We do not spread lies, we do not hurt others, we do not take advantage of or cheat others simply to gratify ourselves with worldly material wealth or earthly possessions, we do not take advantage of other people in our relationships with other people, we do not kill others, steal from them or harm them in any manner, and so on.

We need to love more and have compassion for others and all living beings, maximize love and compassion the best we can. And we do not hate, nor do we spread hate. We need to minimize hate in all of its forms. Even if there are things that we cannot love, or even like, we do not hate them for that reason since there are many levels of acceptance between hate and love. There are things and people that we need not like, but that does not mean that we should hate them. Hate only damages the consciousness of the hateful person, the person who hates, not the consciousness of the person or the object that the hate is directed toward, the thing hated. Love and compassion open and expose a person's consciousness to others allowing a much wider range of experience and learning, while hate builds unnecessary protective walls around a person's consciousness so they cannot know and experience as much as the universe demands and they need to remain mentally and physically healthy and happy.

In all, we do things that will expand our consciousness and grow our higher consciousness, bringing it to higher and higher levels, because this is what nature and the universe expect of us. But do we really know what is acceptable to the universe and what is not? No, we do not, but we can pretty well guess what is acceptable and what is not because our system of morality and justice is founded upon universal principles, or at least it should be. So, we cannot truly know what is acceptable to the universe, but for most instances we can do the best possible. We have been doing this as the Homo sapiens species, slowly at first, then faster and faster and faster, over the past three-hundred millennia and our levels of mind and consciousness have increased a great deal since then. In the seventh century BC, humanity experienced a historical period called the Axial Age.

It seems that something very special occurred spontaneously and consciously throughout the civilized world: Siddhartha Gautama (the Buddha) and Mahavira founded new philosophies in India; Lao Tzu (Taoism) and Confucius founded new philosophies in China; the Persian Emperor Cyrus the great freed the Jewish people from captivity in Babylonia which initiated the rise of David as the last prophet and

Zardusht (Zarathustra) of Zoroastrian religion in Persia; and Thales of Miletus, Anaximander, Anaximenes and Pythagoras founded the ancient Greek school of natural philosophy. Each of these philosophical movements took about three centuries to manifest as we know them today; From Confucius and Lao Tzu came the period of one-hundred philosophies before the philosophical unification of China; Buddhism became dominant in the northern region of India until it was spread even further afield by Ashoka and his conquests; Israel reestablished in their new (old) land and the Old Testament was established during this period when Biblical Judaism is thought to have begun; From Thales to Aristotle and Archimedes in the fourth century BC natural philosophy came to its present level of completion which still later led to the establishment of western science.

So, it would seem that something unique and affecting a greater human collective consciousness happened in the evolution of human consciousness during the seventh century BC. Coincidences of this type do not just happen and worldwide communication was not yet well enough established to account for similar mental changes worldwide at that period of time. So, it is likely that humanity experienced a new but smaller complexity level of either mind or consciousness by that time and Homo sapiens changed for the better, but not enough to be considered a new species.

But with the rapidly advancement and development of science and new technologies over the past few centuries, human knowledge has grown a million-fold or more and the rate of that increase is still increasing daily, so it would be easy to conclude that humanity is approaching a new complexity of higher consciousness and quickly approaching the emergence of a new higher level of consciousness, a new evolutionary leap triggered from the top down by our higher consciousness. Quite literally, our brains have been filled to the stage of overload with new knowledge and need to evolve to keep up. Rather coincidentally, technologists are predicting an upcoming 'singularity' when they reach true AI (Artificial Intelligence – machine or computer consciousness), while science has at least entered a pre-revolutionary period if not the Third Scientific Revolution itself with the development of the first true unified field theory in physics combined with groundbreaking advances in other scientific fields and disciplines.

Meanwhile this theoretical model predicts an upcoming leap in human evolution that will replace Homo sapiens with Homo paradoxus, the next step in our evolution. We will still live in a material three-dimensional world as we do now but we will have a working model of the higher dimension and we will easily be able to directly experience the fourth dimension of space with all of its advantages. We will be able to explore the universe and its many wonders in ways that we cannot even dream of now. Either our neural nets will be prewired before birth (through genetic heredity) to experience spiritual enlightenment after birth or we will be spiritually enlightened when we are born. All three of these advances are coming together at a single point or moment of time, a 'super-singularity' so to speak, and there is ample circumstantial, veridical and scientific evidence to verify this prediction.

Evidence, yes, but science needs predictions for verification

As a general forecast rather than a specific prediction, world-wide mental chaos will increase. Since the coming emergence and higher-level stability of our that will be our new higher consciousness is a mental rather than a material factor in our evolution. So, the maximum chaos that precedes a new higher-level stability at lower energy according to Prigogine's principle will be a mental chaos throughout the world.

Another telling bit of evidence is the simple fact that Increasing numbers of gifted children are being born.

As early as 2003, this model (an earlier incomplete version of it dealing only with MTs and memory storage/recognition/recall) predicted the relationship between electromagnetic waves and MT electrical stimulation that triggered the MTs to act as bio-induction coils. At about this same time, neuroscientists discovered that MTs were indeed absorbing and emitting light waves of specific frequencies. It had also been discovered that the surfaces of MTs were highly magnetic, a fact that scientists at the time could not understand, but this theory predicted the MTs took on the role of nano-sized bio-induction coils that created the light waves. These predictions were soon thereafter if not Already confirmed. **Quotes and References to be added**

This model also very clearly predicts the existence of light waves (photons) in the brain which had been earlier thought impossible. There was no reason for them. In fact, they play a very important if not crucial role in whole-brain coherence, the formation of conscious thoughts and streams of thought, as well as conscsoiousness. About one year ago, a group of scientists discovered electromagnetic waves in the brain and one of the scientists in the group, Tuszynski, speculated that they may play a role in human consciousness. **Quotes and References to be added**

An increasing number of spectrum disorder and autistic children are also being born. It almost seems as if nature is playing with our brains and different neural net structures and mechanisms at birth trying to find the right neural-net structure to initiate the leap, as predicted by this theory. But even a very higher percentage of spectrum disorder and autistic children born are gifted, which fits the pattern of evolution let alone an evolutionary leap. This fits the pattern as an explanatory case of postdiction of the theoretical model rather than a true prediction. We would expect a higher number of children to be born with problematic brain structures with mental difficulties while nature is trying to discover how to build better brains with the old brains with which she has to work. This leads to another prediction of the theoretical model. [Internet definitions of spectrum disorder and autism are quoted]

The role of Broca's area, the communication center of the brain, will be changing so the first hereditary changes will come in this communications center. The number of children born with spectrum disorders and autism has increased greatly since the turn of the century. These children seem to have a distinct problem with communicating with others. It is predicted by this theoretical model that children being born with spectrum disorders and autism are suffering from changes in the communications center of their brains, Broca's area, because communication for the newly emerging human species will include use of the fourth dimension of space. So, the increasing number of births of these children is thought to be an example of mother nature playing with different neural wiring schemes in the brain to increase the brain's efficiency and stability for the coming evolutionary leap, and therefore the problems of these children could be traced to abnormalities in Broca's area of the brain. Within the last year, a group of scientists has announced that the source of the increasing number of births with these disorders has been caused by neural net wiring problems (or are they?) and birth defects in Broca's area, confirming this prediction of the theoretical model. – **Quotes and References to be added**

Even evolution biologists and geneticists studying evolution freely admit the normal evolution of the human species has been rapidly increasing in recent decades. – **Examples, Quotes and References to be added**

And many people have come to believe that some form of higher consciousness is developing in the human species, but they haven't yet related that idea to the concept of a new evolutionary leap resulting in a new species of humans. – **Examples, Quotes and References to be added**

Since this evolutionary leap will be mental rather than material, we should expect there to be physiological changes beginning to show in our brains. These would we expected to be neural-net and neural wiring changes, enhancements, augmentations and advances since the coming evolutionary step is about the conscious realization or direct cognition of the higher fourth physical but non-material dimension of space. – **Examples, Quotes and References to be added**

From this model of the brain though, we can actually predict some possible enhancements and augmentations that we could expect: Predictions from the theoretical model

A new neuron design to better disseminate the vast amount of information from the new sources in the fourth dimension of space. We will need faster and more efficient neural axons to consider a seemingly immeasurable number of new sensations and convert them to core memories. Several years ago, neuroscientists discovered a new neuron in the white matter central core area of a rat's brain. This new neuron was all axon with no neuron head or nucleus. It was estimated to be 80 to 100 times faster and more efficient than a normal neural axon. – **Examples, Quotes and References to be added**

A new and faster way for neurons to get information from the white matter central area of the brain where core memories are stored to the outer gray area and surface where more complex memories and a new worldview will be developing. Just a few years ago a new form of tree-like neuron with numerous branches of dendrites reaching into the furthest areas of the gray matter and surface of the brain. – **Examples, Quotes and References to be added**

Some sort of neural development at the outer surface of the brain where our self-image and worldview are developed and stored. About four years ago, neuroscientists discovered a very large and complex single neuron that existed on the outer surface of the cerebrum forming a cap-like structure over that outer surface. – **Examples, Quotes and References to be added**

Preparation is necessary to avoid a catastrophe

There are several scenarios to be expected given the coming evolutionary leap. Since it is preceded by chaos, the chaos may be too great and either destroy the possibility that the leap will be successful or destroy the human species before the leap can take place. If the leap occurs and is successful any remaining Homo sapiens might want to fight for their survival, but as a doomed species they would still eventually die off, or perhaps if everyone is prepared and understands the true consequences of the leap and remaining sapiens and the new species replacing them would get along and support each other for the benefit of all. That would be the ideal solution and that is why preparation and understanding at this point of time are important and even necessary. Preparation is the key, but the new science of the higher dimension is the best way to understand and prepare.

It would at least be suspected, or predicted from this theoretical model, that knowing and understanding this physics of the higher dimension and its relationship to higher consciousness, death and the afterlife would also be helpful in realizing and cognizing what has happened and will happen when we die. Physics as a scientific discipline is a form of natural philosophy which is completely dependent upon nature and uses nature to verify its explanations, hypotheses and theories. In this way

it is unlike other philosophical traditions and disciplines (like pure mathematics) which need only be internally logical and consistent and need not depend on nature to verify their truth. Those other philosophies (and pure mathematics) only refer to the imagination of humans and not to nature, but we know that our logic, just that logic upon which those other philosophies (and pure mathematics) are founded are seriously three-dimensionally and materially biased. This means that some philosophical beliefs have actually convinced people that the afterlife is illogical and impossible (dead is dead) and what we three-dimensionally and materially sense and experience is all that really exists. If they truly believe this, they might just deny the afterlife after they die.

Such people might experience the Void, nothingness and/or complete darkness when they die, or possibly retreat into their own memories and relive their past forever, including bad experiences in their pasts, *i.e.*, nightmares, accidents are tragic experiences. This notion, given the fact that we create, or at least our higher consciousness creates the conditions of our afterlife, the visually experienced 'environment' or background of our afterlife from the worldview and self-image that it had when the person died, if that is what we want. That notion, in fact and truth, is the source of the 'past life reviews' that some NDErs experience in just a single moment of time. They instantaneously relive their lives after they die and before they start their afterlife, but if they do not believe in the afterlife and shut out any thought of it and thus the conditions of their new existence, they get stuck in their own past life review.

Either that or they experience nothing, total darkness after the past life review when their afterlife begins. They could even get stuck as incorporeal beings, ghosts and phantoms, in the material world that they so strongly believed in. But understanding the physics, a truer natural philosophy as expressed here, is helpful because it both confirms and predicts, after a fashion, what to expect when you die and begin the afterlife. You can then be open to the experience and become one with the universe and learn even more about our true reality than ever before. Or you can deny the possibility that it is real, a greater reality than we ever knew of existing while we are alive and create your own hellish nightmare and/or block it off completely as not possible and accept your self-created darkness. In the end, it is your choice as modified by your own past experiences.

Anything that cuts off or blocks your spirit body or higher consciousness pattern from the totality of the single field, such as your own hate, will be destructive to you in the afterlife. It cannot be said enough, and has been said before by many, that love and compassion open your spirit body to the rest of the single field connections with everything and the universe as a whole in the higher fourth dimension. As it was in life, hate only hurts the person who hates, and not the person who is hated. And if the hate is unreasonable in a universal sense, then it gives you bad karma when entering the afterlife. If you die under hateful conditions, you carry that hate into the afterlife and block yourself off from the benefits of the afterlife. One good thing about NDEs is that they can give you a preview of which road into the afterlife you are likely to take, and perhaps even scare you enough into finding out why you had a bad NDE and reforming your life, if you did. Then one can and prepare himself with this knowledge for a better afterlife.

Only natural philosophy as expressed by a more accurate and truthful physics than we have today with the quantum theory at odds with relativity, *i.e.*, a true unified field theory such as single field theory, which has always been and is now the specific goal of physics and natural science, can help everyone to understand and prepare for their afterlife. Such a theory must include a valid physical theory of life, mind and consciousness, as does the single field theory and in this it is unique in all of physics, science

and natural philosophy. But first, we also have to prepare for the coming emergence of a new species of human to replace Homo sapiens. These two turn out to be one and the same since the new species will be materially bound to three-dimensional space but able to mentally connect directly with the fourth dimension at a level shared by our present spiritually enlightened humans and above. The new species will be able to communicate and understand the afterlife much easier than Homo sapiens. In fact, all of the spectrum of paranormal phenomena will be open to them. However, like the Buddhists teach, the new species must not get involved and be sidetracked by these paranormal playgrounds and practices, but quickly move beyond them to obtain a still greater knowledge and experience of their higher consciousness and the universe.

The Buddhists have already experienced and documented the difference between philosophical knowledge and experiential knowledge in a way that is helpful in this instance. Huineng was a poor uneducated beggar boy in seventh century Guangzhou province, China. One day he heard a recitation of the Diamond Sutra in a local marketplace and was spontaneously enlightened. He went to the Buddhist Temple and sat outside until they allowed him entrance. He was given entrance by the Fifth Patriarch of Chan Buddhism, who was the only person who recognized Huineng's enlightenment. But because Huineng was uneducated and could not enter the temple as a monk or novice and was instead made a servant. When the time came for the Patriarch to step aside and name his successor, he knew that Huineng was the only truly enlightened member of the temple and the only person qualified to follow in his leadership, but he also knew that his Monks who had studied the philosophical aspects of Buddhism for years would not allow an educated servant to become the new Patriarch even if he was enlightened. So, the Patriarch set a test for the members of the temple and Huineng easily won the test. The Patriarch secretly gave Huineng all of the official badges and relics of his office and then told Huineng to take his followers and run for his life because the Head Monk and the other Monks who were only philosophical seeking enlightenment, which was the wrong way to reach it, would surely chase him and kill him.

So, Huineng became the Sixth Patriarch of Chan Buddhism in China, but the Buddhist sect of Chan was ruined. Yet this story or legend, whether true or not, is not without a good ending. Huineng eventually authored, or so the legends say, the Huineng authored the Platform Sutra which teaches how to attain enlightenment. The Chan Buddhist sect eventually migrated to Japan and became Zen Buddhism, which concentrates on the developing spiritual enlightenment, elevating all of its followers to a state of directly experiencing their higher consciousness, through meditation. This example clearly demonstrates that the philosophical knowledge of enlightenment is not enough and could sometimes even be detrimental to gaining true experience, but spiritual enlightenment must be experienced to be useful and real. In the modern scientific context, the direct experience of your higher consciousness and the fourth dimension of space is far more efficient in rewiring the neural net system to absorb the memories of the experience than just book learning about the experience no matter how great that book learning might be. In other words, learning is good, but experience of what is learned is far better because it garners more lasting physical changes in the brain.

Normal disciplines of philosophy, founded (only) upon human three-dimensionally biased material logic, metaphysics, religious beliefs, and religious philosophies, are completely worldly rather than otherworldly, even if they discuss otherworldly subjects, and carry forward the three-dimensional material bias that we are all presently mesmerized by and suffering from. They either teach a false materialistic picture of what the afterlife should or is supposed to be like (heaven and hell) or say the

afterlife is not logically possible, neither of which is helpful in learning the truth of the matter. An open mind on the subject is preferred since commitment to the total belief and commitment to a faulty and wrong view of the afterlife can only trap your afterlife spirit into a screenplay of a person's prerecorded beliefs of either heaven or hell, or a hellish nothingness. This traps you into what you have created, a three-dimensional aethereal existence based upon your own inaccurate belief system, just as you wrongly expected beforehand, thus reinforcing your own wrong point-of-view and belief system. An open mind will accept what it is given in the afterlife, but a correctly prepared mind will recognize and be able to take advantage of its existential situation and a truer physics than the one most people follow now can correctly prepare us for the afterlife which is physically real.

But even the best and most accurate natural philosophy or physics can only help to prepare you, it is the true experience of NDErs and spiritually enlightened individuals that gives an individual the best possible preparation and the same is true of the coming evolutionary leap. Since that evolutionary leap will create a new spiritually enlightened human species, our preparations for our own afterlife now by elevating our own consciousness to as high a level as we possibly can by accepting this new knowledge is also aiding us to move closer on an individual level as well as a collective level toward the emergence of the new complexity level of higher consciousness and the new species.

The basic idea with spiritual enlightenment such as that practiced by Buddhists and others, is that you must give up and even deny your personal concept of self, your self-image, even so much as the notion of self and obtain a state of no-self before you can be enlightened (this occurs naturally during NDEs and actual death) and realize your true self or Buddha nature, which is the goal of spiritual enlightenment. Or, in terms of this physics and physical model, cut or block yourself off from the sensations of the outside world, in this case the fourth-dimensional connectivity with the rest of the universe, you must literally turn off your thought process the best you can, so you can hear or otherwise sense the four-dimensional input representing the oneness and wholeness of the universe through your higher consciousness's continuity and connectivity with the universe and everything within it, *i.e.*, the reality of the single field. Against the context of this greater universe, you lose your 'self', your self-image of yourself, which exemplifies the sense of no-self that you must find and adopt within your thought process, if not as a momentary replacement for the thought process within your brain.

The brain and body still function much as they did in the three-dimensional world that we thought was and now think is everything (all that is or could be physical and real) or can be made to do so even though they no longer have any materiality, if that is desired or preferred. This is, after all, the source of real ghosts and visitations of the dead in our real material world. Since our higher consciousness carries in it all of our memories and the genetics with which we were born, it carries in its library a complete blueprint of our material body, biofield, EM-field pattern as well as our mind or E-field pattern. So, if necessary or desired for any reason the afterlife spirit could return to the three-dimensional material surface from which it was released by death. But in such cases, it would be non-material incorporeal being but could produce light (it is after all an A-field pattern) and be seen by the living, *i.e.*, a ghost.

On the other hand, we have apparitions that permanently inhabit certain locales, but they are usually apparitions of the living before they died. For example, Civil War soldiers at Gettysburg, or Allied Forces invading Normandy, or even Roman soldiers marching off to war against the Picts or Scots in ancient York. In all of these cases, the apparitions are just excess A-field pattern residues that have been imprinted into the material environment by highly excited, extremely anxious and fear-driven men

before they died in battle. The excess mental energy that they experienced at the time, just imprinted an A-field shadow of their actions into the local soil and rocks. How does one come to this conclusion and explanation of phenomena reported by numerous witnesses, by knowing the true science and understanding the true and complete nature of our physical reality.

Knowing the science is not necessary for experiencing the afterlife, but certainly it can help especially for a more gratifying afterlife. The science can also convince more people of the reality of the afterlife, so they do not experience ill-effects when they die for not believing in the afterlife. But it also adds to the knowledge that we carry and add to the universe when we die even while it helps to raise the level of our consciousness while alive which adds to the collective consciousness of the human species and thereby increases the probability of a quick and successful emergence of the new species of humans, who will be born with higher consciousness intact at birth. And all of this comes from a simple theoretical knowledge and model of how our brains work.

References and/or Bibliography to be added