

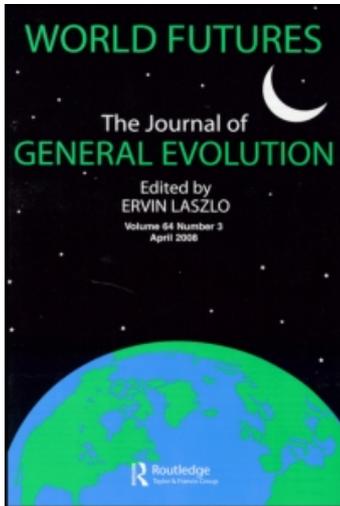
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A MODEL OF CONSCIOUSNESS

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Using a combination of reviewing the extensive relevant literature, the author's original scientific research, and exploring the boundaries of human experiences, this article develops a model for consciousness. As a consequence, consciousness is elevated in the scientific understanding of the structure of the Universe, possibly enabling easier interpretation of such concepts as the anthropic principle and quantum physics. The handling of information is a key, leading to a review of the Information Field theory, together with a preliminary attempt at striking the appropriate balance between mind and matter.

KEYWORDS: *Consciousness, dowsing, information field, the mind, quantum universe.*

INTRODUCTION

Historically, major scientific advances have occurred by probing the boundaries of knowledge and exploring radical ideas. From the earliest civilizations, one such boundary is the understanding of consciousness and the mind. On a seemingly different subject, current scientific theories have difficulty in explaining observations and issues such as dark energy, dark matter, as well as quantum physics. This article explores the possibilities of turning conventional explanations of the universe “on their head” by elevating the role of consciousness to see if this gives a better understanding of quantum physics and other observations of the universe. For example, if consciousness is a driving force in the universe, then such concepts as the anthropic principle; objects seeming to be in two places at the same time, and to possess the ability of anticipation; observers affecting the results of experiments; and other “mysteries” of quantum physics may be easier to explain without resorting to such devices as eleven dimensions or an infinite number of parallel universes.

In-bred into the evolution of humankind is a psychical, mystical, or spiritual element. A characteristic of most civilizations are priests, “magicians,” diviners,

Acknowledgments are due to the UK Dowsing Research Group members who inspired this avenue of research, and following their enthusiastic review of the author's lecture, encouraged its documentation. Particular thanks are due to Bob Sephton for his constructive review of this article.

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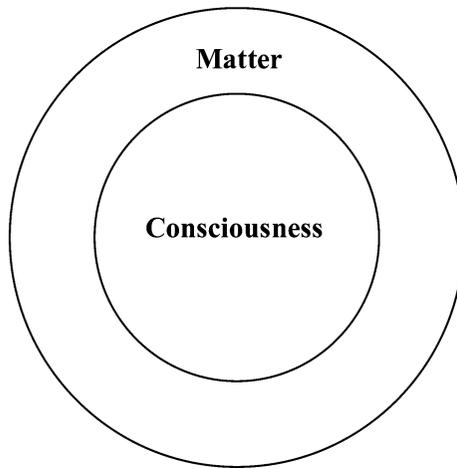


Figure 1. A traditional conceptual view of the Universe.

and so on attempting to answer “Why?,” explore the paranormal, predict the future, or report alleged supernatural events. Science has treated spirituality as an alien topic, and associated concepts such as shamans, witches, voodoo, oracles, dowsing, faith healing, or even prayer have been derided. To illustrate the approach adopted in this article, if, for example, a person can achieve a high success rate as a water diviner, and fill a useful need, it does not matter if dowsing or any other of the aforementioned techniques cannot be understood by the current level of knowledge within orthodox science. What is important are results. Healthy scepticism is justified, but not dismissive doctrine.

Over the last few hundred years, mainstream scientific thought has considered that the Universe is a physical entity comprising matter, and that consciousness is only a consequence of a minor part of living matter. Figure 1 is a simplistic depiction.

In some cases, more recent science, in attempting to interpret the quantum world, has tended to move toward ancient Eastern traditions, whereby matter may be a consequence of consciousness. This is depicted in Figure 2. In developing this approach, a key concept is that consciousness involves information.

To assist in developing this theme, a combination of conventional scientific tools, as well as long established spiritual beliefs, are utilized to probe a model that may help to explain consciousness, including some paranormal phenomena.

OUTLINE OF THE MODEL

In the model about to be developed, the mind is not just a brain in a skull. It comprises an Information Field (that is elaborated later) at one end, and a physical body at the other. This concept reflects the overlap between the quantum universe at

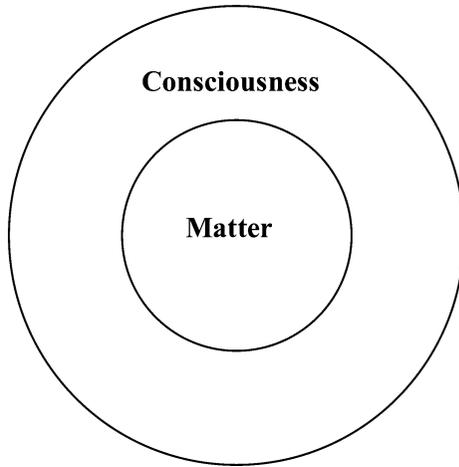


Figure 2. An information model of the Universe.

the micro level, and the large-scale physical world, with consciousness straddling both. Figure 3 depicts this as a block diagram of the concepts involved.

Let us work our way through this model, starting with the Information Field; possibly the most contentious element. The section Further Reading at the end of this article contains a sample of the extensive, but more recent and acclaimed literature, on this topic of the Information Field.

Concepts Associated with the Information Field

The Information Field may currently be the best working model that helps to explain numerous observations and phenomena. In an ideal world, equations, mathematics, and quantifiable repeatable experiments would fully define and explain

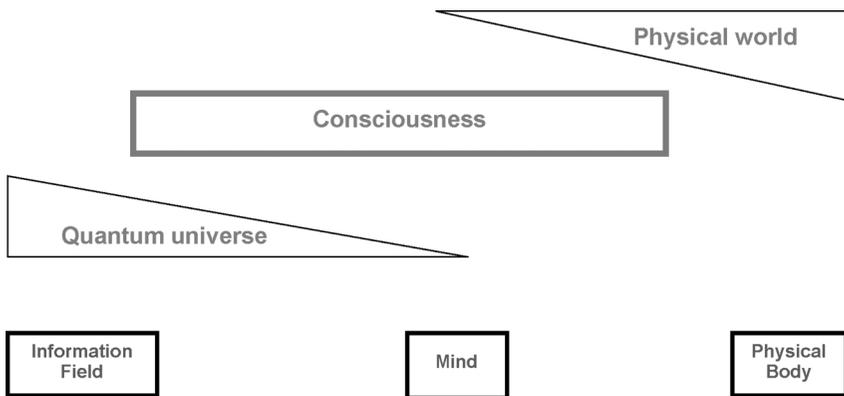


Figure 3. The overlap between the quantum universe and the macro physical world.

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the Information Field. However, we are not there yet. As an illustrative analogy, our current level of understanding of consciousness and the Information Field is possibly where astronomy was about 600 years ago when it was “obvious that the Sun went round the Earth,” or before physics could “see” atoms and fundamental particles. This article adds to the vast amount of existing circumstantial evidence, but treats the Information Field as a postulation and examines some of the indirect evidence. Based on the relevant literature and current research work, outlined here are a few non-mathematical suggestions as to some of its properties.

The main feature is that the Information Field reflects the structure of the Universe and stores information. Current thinking is that the Information Field is more than Akashic information (a concept originating several thousand years ago), which is just a complete and faithful record of history. It seems to be pro-active, comprising past, present, as well as some future information, and thus influences the evolution of history. The Akashic Record can, therefore, be considered as a sub-set of the Information Field. However, some theories of physics consider “time” to be an illusion to avoid the simultaneity of the past, present, and the future. Accordingly, when accessing the Information Field, one has to relate the information required to “now” or other known events. It would seem that within the Information Field there would need to be an organization of events. For example, the concentric ripples on a pond’s surface will not occur until a stone has been thrown into it. Thus, it would seem that handling sequential organization would have to be a property of the Information Field. With this qualification regarding the concept of time, the stored information may be millions of years old, so the Information Field must be self-organizing and stable.

We are only aware of one “Big Bang,” as another one has not obliterated our universe! Either Big Bangs in our universe have a very low probability of less than 1 in 13.8 billion years, or the structure of our universe adheres to an extension of the Exclusion Principle. One of many fundamental examples of the latter is that of an atom where the electrons can only exist in one quantum state in the atom’s outer shell, thus leading to an explanation of chemistry.

Not only must theories of the structure of the universe obey quantum physics, but must explain it. An alternative consideration is that the Information Field and consciousness may be the reason for our perception of quantum physics. Dowsing, and by inference the Information Field, produce universal angles, which are also found in numerous other non-related research works. In particular are the angles 19.471° , 11.537° , 8.213° , and so on. These are angles in a series whose sines are $1/3$, $1/5$, $1/7$, $1/9$. . . (for further details see the author’s website, www.jeffreykeen.org; see also “The Anatomy of Conical Helices, Consciousness, and Universal Constants” 2007; “Angkor Wat, Consciousness, and Universal Constants” 2007; “The Tree of Life and Universal Constants” 2008–2009). For sceptics of dowsing, the probability of measuring these angles by chance is virtually impossible: a good proof that dowsing can work. Nested rotating tori with thickness equal to their internal diameter give cones with these quantized half angles, suggesting a model involving vortices should be developed to lead to a generalized understanding of the quantum world.

A further special property of a torus is that it can move in 7 different ways (the usual 4 space–time dimensions, plus 3 rotational), and 7 seems to be a fundamental universal constant. For example, there is the familiar seven note “*do re mi*” diatonic scale, which seems to be part of the structure of the universe, and hence the Information Field. The number 7 is also associated with several features of life as well as dowsing, such as the ancient concept of the 7 chakras. Traditionally, these are usually associated with humans, but 7 chakras equally apply to other life forms, as well as physical objects. Other examples of 7 are that dowsable spirals have 7 turns and are stacked 7 vertically (“The Anatomy of Conical Helices, Consciousness, and Universal Constants” 2007). It is well known that megaliths, such as in numerous ancient sites, have 7 “energy” bands. The aforementioned evidence of vortices and the number 7 adds weight to the suggestion that rotating or vibrating tori are involved in the structure of the universe.

Geometry, in general, has a significant effect on the Information Field. One of the easiest repeatable experiments that illustrate this phenomenon is to measure the core aura of objects. The radius of the aura, where an irregular-shaped object has a sharp point, is significantly greater than where the same object has a round surface, which in turn is greater than the radius of the aura measured from a flat part of the object (“Auras Revisited” 2005; Keen 2005, 61). Another simple example is that a domed room or chamber generates a central dowsable spiral, unlike a rectangular-shaped room. More complex dowsable patterns are produced by the geometry of banks and ditches, as evidenced in numerous ancient sites (“From Banks and Ditches to Dowsing Two-Dimensional Geometry” 2009; Keen 2005, 182). Recent research by the author has demonstrated that dowsing simple small 2-dimensional geometric shapes can give the same results as on-site dowsing a large 3-dimensional source object, such as banks and ditches (“From Banks and Ditches to Dowsing Two-Dimensional Geometry” 2009). Another example of geometric interaction with the Information Field occurs in measurements of 2-body interactions, whereby the length of the dowsable beam produced by any two objects is a function of their separation distance (Keen 2005, 114).

The geometry of polyhedra and vortices also seem closely connected to the Information Field and the structure of the Universe. Some of the angles within polyhedra are the same as those found in measurements of dowsable earth energies. In particular, the two complementary angles $35.264^\circ = (90^\circ - 19.471^\circ)/2$, and $54.735^\circ = (90^\circ + 19.471^\circ)/2$, are connected to an earlier paragraph.

Frequency, vibration, and spin would also seem to be a feature of the Information Field, and this leads to the concept of waves, and in particular, standing waves and nodes. Building on the concept of waves, a useful hypothesis is that information is stored in the form of quantum phase interference patterns/fringes, which in turn leads to the holographic universe analogy. Entanglement is a well-known feature of quantum physics, but it usually is associated with a pair of particles separated from a common source. Recent entanglement experiments using the mind to link two large objects reinforce the concepts in this article (for further details see the author’s website, www.jeffreykeen.org). The holographic universe analogy explains a more general concept of connectivity, whereby most

information is connected, in the same way that a small piece of a larger physical hologram still contains the entire image.

Some people can see auras, others can dowse for them, but in either case, measurements and research of auras would seem to indicate that they are a consequence of the Information Field. We know that the Information Field interacts with matter as there is, for example, a strong connection between the size of an inanimate object's aura and its mass. Experimental observations of the latter, depicted graphically, produce equations having a logarithmic relationship with high correlation coefficients (Keen 2005, 69).

In a similar manner to mass, interaction with gravity is an important property associated with dowsing, and hence, the Information Field. For example, dowsing linear measurements (but interestingly not ratios or angles) are strongly affected by the moon and other astronomical influences. Typically, dowsable energy lines are greatly reduced at new moon, but are maximized at full moon ("Measuring the Size of a Dowsable Field" 2008). Moreover, the ubiquitous dowsable earth energy spirals, or more accurately, conical helices, are observed to have a vertical axis ("The Anatomy of Conical Helices, Consciousness, and Universal Constants," 2007; Keen 2005, 227); that is, the axis is in the direction of the pull of gravity; the implication being that the axis is aligned by gravity. This has recently been independently confirmed dramatically when no matter or mass is involved, by dowsing pure 2-dimensional geometric shapes such as a vertical cross. If the cross is not exactly vertical, a powerful beam disappears (for further details see the author's website, www.jeffreykeen.org). This suggests a link between consciousness, the Information Field, and gravity—with or without mass, and both local and non-local.

There is also an interaction between the Information Field and electro-magnetic fields. Auras can be attenuated by a metal cage. The results of experiments involving the size of an aura and the thickness of the screening material can be depicted graphically, and produce equations with an exponential relationship having high correlation coefficients. This also applies for different metals (Keen 2005, 82). Not only can dowsable fields be attenuated, but recent research has demonstrated that certain dowsable lines disappear when the source object is placed in a Faraday Cage (for further details see the author's website, www.jeffreykeen.org).

Universal scalar theory seems to apply to the Information Field in that it treats the largest objects in the same way as the smallest, but in a pro rata fashion. This also applies to interacting with the Information Field, which by implication is at the micro or quantum level. For example, it will be shown that consciousness could involve converting macro "life-sized" concepts to the micro/quantum level, and then back again. The ability of the Information Field to handle fractal geometry could be part of this process.

There is also a strong analogy with hydrodynamics; the Information Field appears to behave like flowing water or wind. Because of viscosity and friction, the flow of a gas or fluid is reduced near boundaries. Dowsable shapes are static on the ground, but floating ones (for example, those created by the mind) drift in a westerly direction with increased velocity as their height above the ground

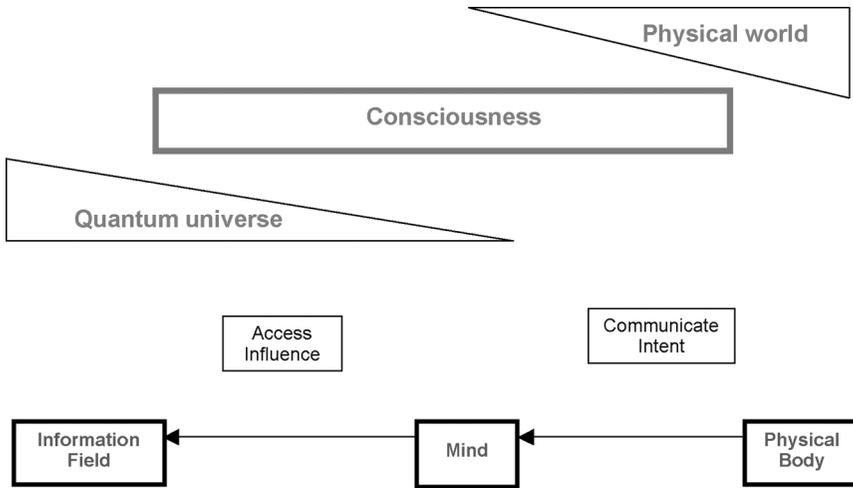


Figure 4. Information flow from the mind.

is increased. Equations with a logarithmic relationship describe this phenomenon (Keen 2005, 212).

Further evidence of the connection between the Information Field and hydrodynamics is that a characteristic of the latter is the change from laminar to turbulent flow, with areas of stability in between. Standard Chaos Theory details this phenomenon, and similar mathematics (such as Feigenbaum’s constant) are found when, for example, analyzing some dowsable fields over a period of time.

All the aforementioned concepts need to be melded into a consistent testable mathematical theory.

Send Mode

Consciousness is both passive (when just observing events) and pro-active (if deciding to do something). Information is involved in both of these situations. Starting with the pro-active case when sending information, let us now trace the path of the information flow through the model postulated in this article. Figure 4 depicts this flow. Logically following the information flow clarifies how this model helps in explaining various phenomena. The physical body (represented at the bottom right of Figure 4) has to communicate intent to the mind. The mind has to access and sometimes influence the Information Field. Let us look at each element in turn, starting with the physical body.

The Physical Body and Intent

Before discussing some relevant examples of intent, it is first necessary to discuss free will. If we assume that we have some free will, is this in conflict with the previous statement that the Information Field holds future information? For the

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following reasons, the author does not feel that everything in the future is pre-determined:

1. Everything being pre-ordained does not reflect reality. If everything was pre-determined, there would be no motivation to do anything. Although not very scientific, the attitude of "*Why bother*" does not build civilizations.
2. Intent would only reflect the Information Field. Therefore, there would not be much of an information flow, and not much to discuss about a model of consciousness.
3. If the Information Field does not hold all future information, we limit the messy concept of an infinite number of parallel universes.

However, if the Information Field is a fundamental part of the structure of the universe, it provides a mechanism to influence or steer evolution in general; of physical objects, life, and thought. Perhaps one can change one's destiny within the "basic plan" set out by genetics and circumstances, and so on. One has the opportunity to change it, but one has to make that conscious decision to do so. For about 2,500 years this has been a complex and ongoing philosophical topic with no simple answers.

With the aforementioned qualifications, let us briefly list examples of intent. There obviously are an infinite number of intents by a vast number of people and other sentient beings. Expanding on the analogies mentioned earlier, significant breakthroughs in astronomy are made when striving to find the boundaries of the observable universe. Similarly, significant scientific findings are made in delving deeper into ever smaller boundaries in particle physics. Adopting this type of approach, the vast majority of intents are dismissed in this article, as only unusual intents relevant to the boundaries of consciousness are considered here.

The desire to drink a glass of water probably does not help us to research the Information Field. But one common desire that does help us in our quest is to seek information; the simplest being a binary question with a "Yes/No" answer. A relevant example when dowsing would be "Is there drinkable water beneath my feet?" Another common, but non-complex intent, is to find a lost object, or to search for earth energies. An effective tool for researching consciousness is using intent to create remote mind generated dowsable geometric shapes with the purpose of comparing them to the original intended geometrical shape in an attempt to understand differences, perturbations, or distortions.

A more sophisticated intent is to seek information in general, not just a "Yes/No" answer to a question. For example, having found drinkable water, it is possible to determine its depth and flow rates. More ambitious intents may be for someone to try to influence events, making things happen, or even in these days, a non-trivial desire such as finding a car-parking place. A further extension to an objective of intent is to influence people. Adopting a positive approach to life seems to work, and even helps to build multi-million-pound businesses. Apparent telepathy, such as pre-empting a phone call (Sheldrake 2000) is a similar example of influencing people, especially between close family members. Other complex, but common

intents, include the desire to perform faith healing, or to remote view places or people for possibly military and intelligence purposes.

Choose a Technique

If the initial part of intent is a desire to do something, the next part of intent is to choose a technique that hopefully will lead to implementing the desire. Intent has to be conveyed to the mind. There are several well-established techniques to achieve this. Determining a protocol is a primary starting point, and the following techniques are in common usage.

The use of visualization and images is very powerful, and can be a more concise and accurate tool to convey intent, than using just words. Extending this concept to quantifiable techniques is to visualize precise geometric shapes with specified dimensions, and project these shapes, say, from an aircraft flying at several thousand feet to a specific location several thousand miles away. An independent remote observer can detect these shapes by dowsing, and record their location, geometry, and dimensions. It is then possible to compare the accuracy of the two sets of images, and hence the accuracy of this model. Visualization techniques can be relevant for most situations.

On-site dowsing, map dowsing, information dowsing, or photograph dowsing are well-established techniques for clarifying and focusing intent. Conceptually, these phenomena are explained by the model outlined in this article. Similarly, ancient desires, such as telepathy, and remote viewing can also be explained using this model. In fact, apart from the ethical implications, there has been significant recent interest in developing protocols to improve the accuracy of these intentions.

It must be stressed that all of the aforementioned intentions will not have the desired outcome with 100% certainty. Like quantum physics, the outcomes have different probabilities. Different people have different skills and success rates. "Simple" items at the top of the above list, such as detecting underground water, may, with certain people, have over a 90% success rate, whereas items toward the latter part of the list, such as influencing people, may only have less than a 10% hit rate, or only slightly better than random. Apart from the obvious fact that people have differing levels of ability, training, and practice, one possible reason for low hit rates is that there may be an inadvertent intent to interfere with the "universal system" or "destiny," thereby creating a conflict, in which case one cancels out the other.

Techniques for Preparing the Mind

The mind now needs to action the intent. Conceptually, this is a separate step from creating an intent, and selecting a technique, as discussed earlier. However, these two processes could be concurrent within this phase of preparing the mind. To achieve this, the mind prepares to access the Information Field, possibly using one of the following well-established relevant techniques: Meditation, Trance, Sub-conscious deliberation, Dowsing, Prayer, or Positivism. As these are well covered in the literature they are not expanded on here.

Action the Intent

We now need to action the intent by accessing the Information Field. In doing so, it would seem necessary to convert the macro intent to micro action. This would possibly involve an interface with quantum information. Fractal or self-replicating geometry could be the conceptual mechanism for converting macro intent to micro action. In other words, geometrical figures being endlessly repeated smaller and smaller, or the reproduction of a reduced-sized copy of the whole visualization. Analogies could include the ever growing boundary of a Mandelbrot set (a famous example of a fractal), or fractal pentagrams/pentagons ever decreasing inside each other like a set of Russian dolls. This self-similarity can be exact as in the pentagram example, or quasi and not totally identical as, for example, a fern leaf. As discussed earlier, dowsing is sometimes not precise, or different dowsers making the same measurements obtain slightly differing results but still produce the same ratios and angles. Fractals involving quasi self-similarity could be relevant in this context, and dowsers improve with experience.

In some cases of intent it may be necessary to modify the Information Field, as opposed to just accessing it “passively.” A simple example of this is planting information in the Information Field, such as setting down dowsable geometric shapes, Earth Energy lines, or spirals in a specific location. An independent person could then detect them with the results used to research the Information Field model. It should be remembered that in some cases there could be an elapsed period of time between the original intent being initiated, and arranging the correct circumstances necessary to action that intent.

Receive Mode

Having accessed the Information Field, let us now consider the flow of information back to our physical bodies. This is depicted in Figure 5, and can be conceived as a “download” of information, which in turn, involves converting quantum information into a recognizable format. The final step is an individual’s perception of what the converted quantum information means, and often relates to personal experiences. This is why one may obtain different answers from individuals assessing an event or fact. Let us look at each element of this process, starting with the “download” analogy.

Techniques for “Downloading” the Information Field

The following are a sub-set of the previous techniques for accessing the Information Field, plus some additional methods and observations. As before, the following well-established list does not require further elaboration. Downloading can occur while in meditation or a trance, or while deeply engrossed in the “sub-conscious.” One often experiences out of the blue “Eureka” moments, or having premonitions, while dreaming or waking up during the night, with an answer to a problem. Alternatively, this mental state is a natural part of the process of dowsing. It is also possible to utilize various other protocols.

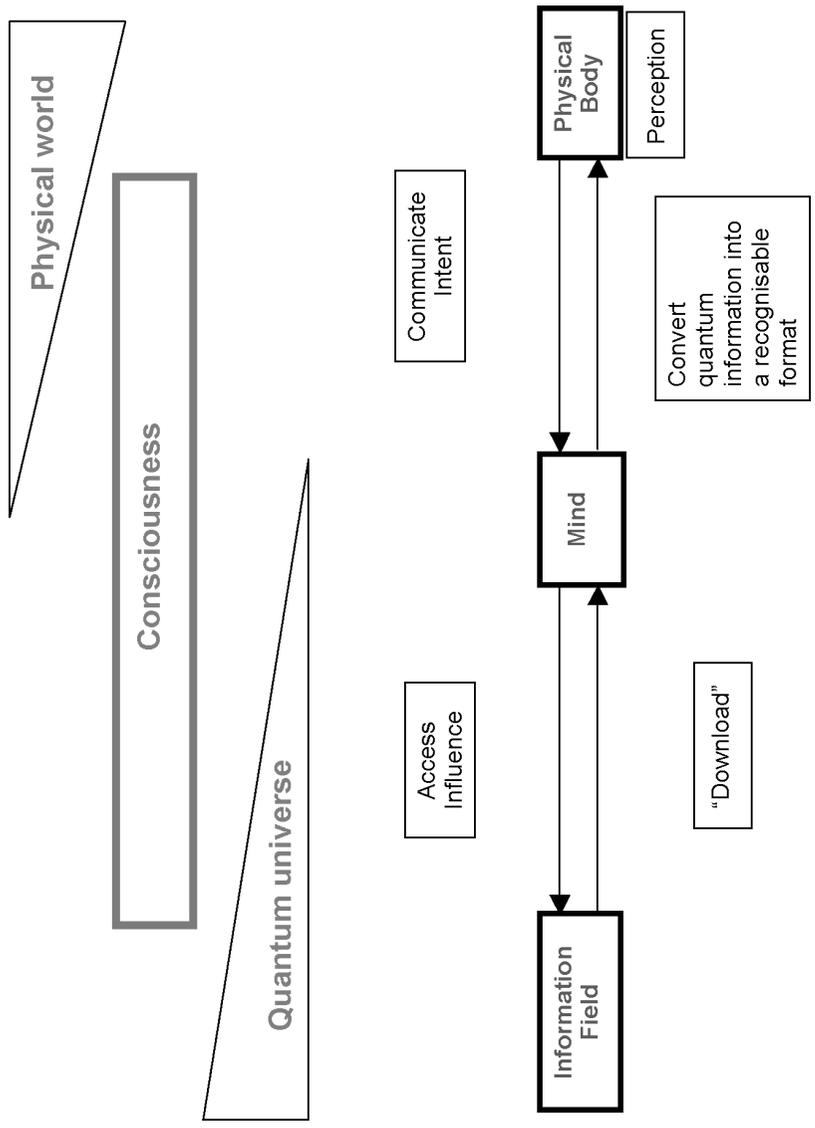


Figure 5. Information flow to the mind.

Conceptually, and thinking in classical physical terms, **access** is initially a searching concept, and is different to “**downloading**” information after having first obtained the access point. However, in the quantum world, these processes could be combined or are instantaneous. On the other hand, there is often a delay between worrying about a problem, and receiving inspiration some time in the future, possibly unexpectedly.

Process Information

Having accessed and downloaded quantum information, the mind now has to process and interpret it. In doing so, it has to filter from an infinite sea of data in the Information Field, the one piece of relevant information. Non-psychics or non-dowsers may not appreciate that the mind naturally has a “switched-off” state. The reason being is that people would literally be driven mad by having to process an infinite amount of information. It would be like attempting to listen to a radio without a tuning mechanism and hearing all the stations simultaneously superimposed. A specifically defined intent is essential to “switch-on” the mind to a specific “channel.” Similarly, people would not necessarily be aware of a psychic phenomenon or an earth energy line unless they are specifically advised to look for it.

The mind, in its widest sense, has to convert micro information into macro comprehension. As before, fractal geometry could be the mechanism for this, whereby quantum information is converted into a recognizable tangible format. A further ability of the mind could be to detect changes in the Information Field, which could be necessary for someone to be aware, for example, of a newly created dowsable earth energy line, or a mind created psi-line. It is debateable whether the “dowsable line” exists physically, or, as elaborated later, is a perception in the mind.

Measurement is key to scientific research. As discussed earlier, when measuring identical dowsing phenomena (such as the width or length of a line), it is well known that different dowsers obtain different results. This is an important result as it not only enables a scientific study of the factors that are involved in dowsing, but also supports the theory that quasi self-similarity fractals may be involved in converting micro to macro information. The simplest interpretation of downloaded data is for the mind to create geometric shapes (which has the advantage of providing quantifiable research experiments), while the more general process is for information to be visualized resulting in complex images being created, possibly in the “mind’s eye.”

It is now appropriate to consider the perception by individuals of the downloaded information or created images.

Perception

The simplest case of perception of downloaded information is a “Yes/No” answer. This is the most frequent use of a dowsing rod or pendulum. More sophisticated is to use “deviceless dowsing” whereby one has a sensation in the mind’s eye, throat, or solar plexus for a “Yes/No.” At a higher level of complexity, one builds

a model of the downloaded information in the brain. A common interpretation of information when dowsing is as geometric shapes, such as spirals, lines, or angles. In general, people interpret information based on their personal experiences. Sight is an analogy to perception as postulated in this model. The process of sight starts with an image on the retina of a person's eye, but via rods and cones, the optic nerve, and a stereo vision ability, becomes converted in the observer's mind/brain into a colored, 3-dimensional resultant model of the original image. This model forms a perception in which the person observing believes that he or she is "seeing directly" what is being looked at. This is possibly a good analogy, as not only do some people seem to have to dowse with their eyes open to obtain better results, but more fundamentally, it has recently been demonstrated that an important research tool is to dowse pure geometrical shapes, for which sight is obviously essential (for further details see the author's website, www.jeffreykeen.org).

Information or remote dowsing is obviously "all in the mind." Recent experiments in dowsing local geometric shapes suggest that some, if not all, perceived earth energy fields are not physically there so they cannot be detected or measured locally by, say, a "conventional scientific" meter. Adopting the concepts of the model of consciousness discussed here, dowsable fields or images are a construct of a perceived model in the observer's brain cells, as a result of the mind interaction with the Information Field. Moreover, it is relatively easy to superimpose a physical background or object, such as a tape-measure, on these dowsed images, to form a combined seamless perception. This is a further suggestion of a link between the way the mind processes sight and dowsing.

CONCLUSIONS

In researching consciousness, the handling of information by the mind is key. It would seem that the mind is more than just a brain in a skull. Experiments, observations, and measurements lead to developing the Information Field theory, together with a preliminary attempt at striking the appropriate balance between mind and matter. There are good logical reasons for elevating consciousness in the scientific understanding of the structure of the Universe. If substantiated, this approach may enable an easier interpretation of such concepts as the anthropic principle and other philosophical and scientific conundrums.

This article has highlighted many links between consciousness, and seemingly unconnected physical concepts such as geometry, gravity, magnetism, and astronomical factors. For example, it has been shown that gravity can affect the perception of what is being observed—both in its dimensions and/or its composition. Similarly, magnetism can affect the composition of what is being observed, but differently from gravity. It is well proven that astronomical factors, which are obviously non-local, and probably in connection with gravity, also affect what is being observed. It has also been shown that the mind appears to interact with pure geometry. The latter not only produces dowsable patterns that may resemble those from diffraction gratings or X-ray crystallography, but in some cases when viewing a 2-dimensional source object (e.g., a short pair of parallel lines drawn on paper), the observer perceives the same image as viewing a totally different

3-dimensional object (e.g., a massive pair of sand dunes) (“From Banks and Ditches to Dowsing Two-Dimensional Geometry” 2009).

The model for consciousness proposed in this article provides possible answers to some of the mysteries of quantum physics. For example, the often-quoted Copenhagen interpretation can be reworded as “what one observes depends on the question being asked” or “the act of observation affects the result.” As we have seen, this is the starting point of dowsing where the language and objective is “intent, the mind in its widest sense, and consciousness.” If one is looking for waves, one finds waves. On the other hand, if one is looking for particles, one finds particles. Hence, wave-particle duality and conscious observation actually creating physical reality are less of a conceptual problem. Similarly, remote interaction, an object being in two places simultaneously, and large objects as well as small obeying the rules of quantum mechanics are all compatible with the model described in this article.

THE WAY FORWARD

As we are currently living in the Information Age, it is probably not a coincidence that our philosophizing is leading to the Information Field. The current timing of the suggested way forward set out here is also fortuitous, as there appears to be a convergence between traditional scientific orthodoxy and the plethora of “alternative” researchers. A catalyst is that science is currently facing twin challenges at both the micro and macro levels. For over 80 years, at the micro level, quantum mechanics has defied comprehension, and even Einstein referred to it as “spooky,” leading some authorities (e.g., Rosenblum and Kuttner 2007) to suggest that the solution lies not in physics, but in consciousness and cognitive neuroscience.

At the macro level, up to edges of the observable universe, there are two recent realizations that “science” only understands about 4% of the mass-energy content of the universe, and that gravity does not behave as expected. Over the last 10 years, it has unequivocally emerged that up to 96% of the universe is filled with mysterious dark energy, and dark matter that no one has ever seen. This concept has been introduced by orthodox science to explain, among other observations, the gravitational repulsion, not the expected attraction, of distant galaxies. The good news is that both the traditionalists and the alternatives are, for once, speaking a similar language: the Zero Point Field, the smallest quantum level of the universe being the common ground, which surprisingly, could possibly offer a solution to both the aforementioned micro and macro challenges, and bring together mind and matter. In any event, a paradigm shift is required to comprehend the role of consciousness.

As discussed in this article, dowsers, and other researchers, postulate that this Zero Point Field could be similar to the Information Field, which to their way of thinking comprises structured information, self-organized holographically with long-term stability, plus all the other concepts, properties, and features summarized in an earlier section of this article, entitled “Concepts associated with the Information Field.”

Traditional quantum physics, on the other hand, considers the Zero Point Field as comprising randomly generated virtual elementary particles being spontaneously created and annihilated—too fast for us to detect them. The “vacuum energy,” or negative pressure associated with this process, could be the explanation for dark energy and the gravitational repulsion. Based on the current “orthodox” understanding of physics, the main problem with this theoretical approach is that it gives results that are 120 orders of magnitude too great compared to the observed cosmic acceleration (“Dark Energy” 2007)! This highlights the fact that current understanding of the structure of the Universe, and the earliest moments of the Big Bang, require a major revision. As this question of dark energy and dark matter is currently one of the major challenges in science, bringing the two approaches together could be mutually beneficial in providing answers, and lead to an understanding of quantum gravity, as well as the expanding universe.

Much of this article can be classified as philosophical, as many of the ideas are difficult to test. A vital component of any scientific theory is that it can make novel testable predictions. In this case, an acid test could be that the mathematics for the cosmic acceleration be re-worked, but with a structured Zero Point Field, as discussed in this article, and see if this produces results that are 120 orders of magnitude **less** than the current interpretations of the Zero Point Field and quantum physics, and, therefore, tie up with observations.

What is consciousness? As is apparent, this is a vague term, and this article has avoided defining it. It is suggested that only after all the concepts presented here are better understood can a robust definition of consciousness be produced.

Future research into dowsing and consciousness could be directed in two parallel streams. Either top-down, by possibly contributing to the development of the “theory of everything,” quantum gravity, and establish that mass is interrelated to consciousness, or bottom-up by performing numerous simple experiments such as those touched on in this article. The latter includes bringing matter into this model by measuring such things as the size of an object’s aura against its mass, and exploring consciousness and the Information Field by dowsing simple geometric shapes. Using the analogy of X-ray crystallography, this latter technique could be used to investigate the structure of the Information Field. Either way, these are exciting times.

Further details can be found on the author’s website www.jeffreykeen.org.

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