



locality is the basis of perception, and thus fundamental and necessary to the complex organizations of matter and information in the universe. Further, since learning is an observed property of complex systems such as animals and, via the quantum hologram, is theorized to be a property of simple cells and molecules, one can also postulate the generalization that nature evolves through a learning process rather than because of random mutations." (Mitchell, 1999/2002, p. 3

"Marcer [and Schempp ] (1997) has proposed that the condition of Phase-Conjugate-Adaptive-Resonance (pcar) is a necessary condition for an object in three dimensional reality to be perceived as it really is. That is, resonance requires a virtual path mathematically equal but opposite to the incoming sensory information about the object. Further, that it is the incoming electromagnetic (space/time) information (visual, acoustic, etc) which decodes the information of the quantum hologram and establishes the condition of pcar so that accurate three dimensional perception is possible. That is to say, both quantum information and space/time information are used in the act of perception by organisms having sensory preceptors. I propose that the two equal but opposite paths required by the pcar condition are the mathematical equivalent of perception and attention (or intention)." (Mitchell, 1999/2002, pp 3-4)

"Non-locality and the non-local quantum hologram provide the only testable mechanism discovered to date which offer a possible solution to the host of enigmatic observations and data associated with consciousness...The absorption/re-emission phenomena associated with all matter is well recognized...[S]uch re-emissions are sufficiently coherent to be considered a source of information about the object...The information carried by a quantum hologram encodes the complete event history of the object with respect to its three dimensional environment. It evolves over time to provide an encoded non-local record of the 'experience' of the object in the four dimensional space/time of the object as to its journey in space/time and the quantum states visited. The...brain's ability, as a massively parallel quantum processor, decode[s] this information... [A]n organism's ability to perceive objects as they are and where they actually are in three dimensional reality requires the phase conjugate relationship provided by quantum holography. It is not sufficient for the incoming electromagnetic illumination (or acoustic signal) carrying object information to present to the brain a wave front in the manner presented to a flat photographic plate. Rather, a virtual signal as mapped by the phase conjugation of quantum holographic formalism is required to decode the information in order for perception and cognition to exist as we experience it in three dimensional reality. The percipient and the source of information are in a resonant relationship for the information to be accurately perceived." (Mitchell, 1999/2002, p 5)

"In decoding the quantum holographic information...the energy exchange is insignificant...It is the phase relationships that carry the information in holography... And it appears that the brain stores and manages information not as a classical digital machine, but rather as an analog device using non-local properties of the quantum hologram...[T]he non-local attribute of nature is much more than just a curious artifact of subatomic particle interactions... [R]ather [it] is a more fundamental phenomenon that appears at all scale sizes and is, in particular, associated with the utilization of information in nature, and associated with the fact that information has a causal effect independent of distance. [see Bohm's Active Information] It is precisely information, however, that is the basis of the phenomena of perception, cognition, memory, learning, etc., that is to say, consciousness and the subjective experience." (Mitchell, 1999/2002, pp 6-7)

### **13.7.2. BENFORD ON ACUPUNCTURE and DELAWARR TECHNOLOGY**

"[R]esearch in acupuncture has identified a connection between quantum holography and the physical body. In an article by Jovanovic-Ignjatic Z and Rakovic D. entitled, 'A review of current

research in microwave resonance therapy: novel opportunities in medical treatment,'...(1999) ...states, 'Such a picture also supports the E[lectro]M[magnetic]/ionic 'optical' ultra-low-frequency modulated M[icro]W[ave] quantum holographic neural network-like function of the acupuncture system (similar to complex-valued oscillatory holographic Hopfield-like neural networks), and its essential relation to consciousness, as strongly suggested from biophysical modeling of altered states of consciousness.' Other work, such as that by RA Dale, (1999) 'The systems, holograms and theory of micro-acupuncture,'...also draws this same essential link between a quantum holographic etheric field and the physical body. Does such an unseen 'elan vital' actually exist and, if so, is there definitive and replicable proof?" (Benford, 2000)

"[Benford's]... article in the Journal of Theoretics ...entitled 'Empirical Evidence Supporting Macro-Scale Quantum Holography in Non-Local Effects,' presents compelling evidence potentially validating quantum holography, which was derived from research championed by physicist David Bohm, a protégé of Einstein's, and Karl Pribram, a highly-respected neurophysiologist from Stanford University. The paper includes spatially-encoded 2-D, and the subsequent re-encoded 3-D images, created from mere samples, or 'target objects,' of blood, sputum, and hair from distant objects. Is this irrefutable evidence of a quantum holographic field linked to physical objects?" (Mitchell, 1999/2002)

"The work discussed in the article is based on over 13,000 such images created by British engineer George DeLaWarr in the 1950s (see Langston Day, 1956, New Worlds Beyond the Atom, 1966, Matter in the Making). According to quantum hologram theorist, Edgar Mitchell, Sc.D., former Apollo Astronaut and founder of the Institute of Noetic Sciences, '...I have read most of the De La Warr book and ...there is now no doubt in my mind that he was playing with quantum holography (QH), as all the characteristics described in his work, fit exactly the description we have of the QH characteristics.'" (Benford, 2000)

"Other interesting aspects of the DeLaWarr technology is that it is space-time independent -- images have been collected not only from distant locations but also from past times (future has not been tested to my knowledge). Testing is continuing with the system including the collection of new images..." (Benford, 2000)

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