

The Biofield Experiment

Alpha wave detection may hold the key to identifying the nature of some paranormal activity. I base this statement on the fact that in many reported out of body experiences, alpha waves flat line in the subjects. This would seem to imply that Alpha waves and consciousness are interrelated, but it also implies that Alpha waves may be the secret of our soul, so to speak. The problem is, how to measure free air alpha waves, and to know that it is emanating from a paranormal event? We are exploring the possibilities now with a modified EEG (ElectroEncephaloGram) device with a special sensor in order to attempt to detect Alpha waves in the environment.

In Electroencephalography, a technician monitors the activity of brain waves in an effort to correlate brainwave activity to various mental states, such as wakefulness, relaxation, calmness, light sleep and deep sleep. EEG is also used to identify problems or potential problems in the brain.

We are also looking at another potential clue concerning reported phenomena known as biophotons. Biophotons were first discovered in 1923 by Russian medical scientist Alexander G. Gurvich. All through the 1930s biophotons were widely researched in Europe and the United States. Research essentially hit a roadblock with the level of technology available to researchers and the concept was largely forgotten. It wasn't until the 1970s that biophotons were "rediscovered" in many experimental and theoretical investigations by European scientists. In 1974 for example, German biophysicist Fritz-Albert Popp proved their existence, their origin from the DNA, and later their coherence.

He then developed "The Biophoton Theory" to explain their possible biological Role.

According to the biophoton theory biophoton light is stored in the cells of the organism, specifically in the DNA molecules of their nuclei. A dynamic array of light is then constantly released and absorbed by the DNA. The very real possibility is this may connect cell organelles, cells, tissues, and organs within the body and make up the organism's primary communication network as well as serve as the principal regulating instance for all life processes. Morphogenesis, growth, differentiation and regeneration are all explained by the structuring and regulating activity of the coherent biophoton field. Additionally, the holographic biophoton field of the brain and the central nervous system, (and possibly even the whole organism), may be the foundation of memory and other phenomena of consciousness, according to neurophysiologist Karl Pribram and others. The consciousness-like coherence properties of the biophoton field give indications that it has a possible role as an interface to the non-physical realms of mind, psyche and consciousness.

Biophotons are ultra weak nearly undetectable photon emissions from biological systems. They are comprised of weak electromagnetic waves in the light range of the electromagnetic spectrum. All living cells emit biophotons that cannot be seen but can be measured by very specialized equipment. This light emission is a reflection of the functional state of the living organism being measured, and its measurement can be used to assess and diagnose the cell's functional state.

In quantum mechanics, the energy of quantum fluctuations can result in virtual particles spontaneously “flashing” into existence. These flashed particles that are matter-antimatter twins interact, but in accordance with Heisenberg's uncertainty principle they disappear within a time frame set by Planck's constant. The theory was proved by the Casimir Effect which states, “*two uncharged, perfectly parallel, conducting metal surfaces automatically attract one another if they get close enough.*” The effect was first observed by Steve K. Lamoreaux, employed a torsion pendulum to detect the attractive force.

There are also biological waves (Bioradiation) emitted and resonated by all living organisms.

The human body itself has a wealth of frequencies associated with it. If we are ever going to connect paranormal phenomena with the dead, we will have to utilize methods that can also acknowledge the living. Of course rigorous controls must be employed to isolate readings from the researchers from the readings of the researched. For reference purposes, I have listed a couple of key frequencies.

The Human Body Cell vibrates in the range of 1,520,000 Hz (1.52 GHz) to 9,460,000 Hz (9.46 GHz).

Electromagnetic brain waves vibrate from 0.1 to 30hz.

Our decision making abilities are governed by alpha, beta, gamma (.01-5hz), theta (4 - 7hz), and delta (0.1-.1-4hz) waves.

This brings me back to Infrasound, which I can't seem to shake free of. Key frequencies of consciousness fall into the realm of infrasound, therefore it is imperative to measure and detect its presence as well during a paranormal event.

While it is true that energy can be transformed from one form to another, it cannot be created or destroyed. This conservation of energy along with the parallel conservation of matter are basic principles of traditional mechanics. But these two principles are gospel only with velocities (speeds) that are small compared with the speed of light. Once velocities close to the speed of light, are reached, energy and matter become interchangeable. Quantum physics demonstrates that light exists as two interchangeable forms: a particle (form and structure) and a wave (movement and vibration). This holds true for the rest of nature. Everything can be experienced in the form of a particle and a wave. A simple example of this is to observe water in the ocean. It is both particles of

water and movement of coastal currents, thermal layers and tides. As is true in the ocean, the human body contains and is affected by energy that can be blocked, flow freely or vary in frequency. Various forms of energy have been postulated:

1. An all-pervasive background frequency without form that extends beyond the limits of the body structure
2. Vertical energy flows that serve as conduits to external energy
3. Additional currents of energy with identifiable paths and patterns

The range of effect of these background fields extends beyond a person at a distance unique to the person. Some people claim that they are sensitive to these fields and are able to see, hear or otherwise sense them. Heat emanating from a body is another form of energy and an expression of that person's energy field. Simple logic dictates that if we are made up of energy, or we radiate energy, that energy may still be present at the scene of a haunting involving a human who has "passed on".

Evaluating biofields presents particularly difficult challenges. Many components of energy such as temperature, sound, electrical charge, magnetism as well as visual effects have been measured in the laboratory. In addition to these easily measured energy mediums, other components may exist that are not measurable with our current technologies, or are measurable only we are not sure what to measure. Quantum physics and associated technologies are changing this area of study rapidly as evidenced by the addition of using complex superconductors as sensors to measure concentrated energy biogenerators such as the heart and brain.

These energy methodologies are relatively new to medical science. Consequently, researchers are being continuously challenged to find appropriate ways of measuring and quantifying their effects on accurate analysis. Standards for conducting biofield energy research have not yet been fully defined and are a work in progress, because we have not satisfactorily defined the field we are trying to quantify. Primarily up to this point, research into biofields has been studied by practitioners of alternative medicine, another field that has a tendency to contain a high degree of fraud.

There is a bright light in the darkness, and it comes to no surprise to the serious researchers in the paranormal field. The Center for Frontier Medicine in Biofield Science at the University of Arizona, with Gary E. Schwartz, PHD as Director, is blazing trails in cutting edge biofield research. We are discovering parallels within our own research to areas Dr. Schwartz is exploring from a much different perspective, (in his case, healing, in our case, discovering the nature of a haunting) although we think our work is closely related. Dr. Schwartz's is well known for his work on the After Life Experiments, in which he performed a series of double blind experiments with some well known mediums and discovered

some very compelling evidence that supports the survival of consciousness after death. In the same vein, biofields may hold the key in linking certain types of haunting manifestations with a formerly alive person, which would finally define the word "ghost". The trick is measuring them, and then knowing that is indeed what you are measuring.

The frequencies fall in the range of Infrasound. Coincidence?

We think not.

So the experiment involves using sensors designed to detect and measure low frequencies of electromagnetic energy. Instead of using traditional electrodes, designed to detect and measure energy through the human skin, we will be using a combination of special low frequency antennae and coils. We will record any waveforms captured and correlate them with other data collect at the scene. We will then compare these waveforms with those on file of known biofield measurements. The end result may reveal information concerning the nature of a haunting.