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THE HUMAN BIOFIELD

Adapted from an article by Jay Kshatri on [Medium](#).
The Collected Works of Peter Fritz Walter • January 3, 2016

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INTRODUCTION

Thousands of years ago, native cultures discovered that there is an inherent energy field within and outside the human body. The Chinese call it *Ch'i* and the Indians call it *Prana*. Both went on to map out this field within the body and identified pathways for internal energy flow, called *meridians* by the Chinese and *nadis* by the Indians. Both healing systems also identified energy points at strategic spots within the body that act as energy spin and distribution centers, feeding surrounding parts of the organism and major organs. They are called meridian points or acupuncture points by Traditional Chinese Medicine (TCM), and chakras by the Indian mind-



body tradition. Each of these ancient civilizations built an understanding of these energy pathways and centers and then created healing modalities based on relieving disease symptoms in the human body.

Through trial and error they identified various natural treatments (herbs and other plant based solutions) that would remove the pain—what they considered an energy block—within a person’s body. Both the Chinese and Indians continue to use this ancient understanding of the human energy field to treat patients and proactively maintain good health. The TCM approach with their medicinal remedies, dietary changes, acupuncture, and energy moving exercises (Tai-Chi and Qi-Gong) and the Indians with Ayurvedic remedies, dietary changes, meditation, yoga and breath work.

In our modern urban culture, except for small segments of the population, we have lost sight of this understanding. We handed over the keys to materialist science which had no place for any type of interconnected field. We are supposed to be separate physical entities composed of material substances that are hardwired to each other. Modern medicine treats our bodies as ‘biological structures with an intricate plumbing system.’ If there is an issue doctors deal with the offending part of the system and either medicate it or surgically alter or remove it. The concept that our internal hardware was connected in more than rudimentary ways was no



longer considered. Nor is the concept that our 'physical hardware has software and an operating system that is running the overall system. This was the mechanistic view that is now being gradually overcome by revolutionary new insights that more and more embrace to the old native approach to healing disease.

In the early 1900s the discoveries of quantum physics began the process of awakening us up from our mechanistic trance that lasted for about 300 years. Quantum physics delivered proof for the fact that the world at the quantum, sub-atomic level is all energy. This means we ourselves are ultimately energy beings. Energy in turn, converts to matter per Einstein's famous equation $E=MC^2$. Our physical reality—our bodies, our material objects, and nature itself are underneath their physical manifestations, pure energy.

But close to 100 years later, many of us still ask if that is really true? How do we know for sure? And if it is true, what do we do differently in terms of achieving and maintaining optimum physical and mental health? Is there a hybrid approach of modern medicine and ancient wisdom that makes sense for us to adopt? And, just as importantly, what is the source of this energy?

Fortunately, scientists and technologists in the last 20 years have learned more and more that the human body is being regulated by light and information. More specifically,



science learnt that the hundred million cellular actions that happen in our body every second are being coordinated by a field of light energy that contains critical information for the cells to do their work in the various sub-systems of the body.

Anything in our environment that interferes with this human energy field causes sub-optimal to harmful effects in our physical, emotional, and mental body systems.

This emerging insight in what some call the *human biofield* is bringing us back to the understanding that the Chinese and Indians had thousands of years ago. And, in some cases as we'll see later in this article, new learning is being developed that builds upon the ancient knowledge and takes it further. It's been a long journey home but we are finally getting close.

THE ILLUMINATED BODY

How do we know that the body is light-driven? There have been four major areas of clinical and scientific investigation in recent decades that are showing this to be the case:

- ▶ Photography of the the human aura;
- ▶ Measurement of biophoton transmission within the body;
- ▶ Measurement of heart-generated fields and information transfer inside and outside the body and;



- ▶ Acupuncture point, chakra, and meridian energy and information communication measurements and mapping within the body along with techniques to remove energy field distortions.

The presumption of the existence of the 'aura,' is based upon the principle that all mental activity is electromagnetic. While some medical theorists argue that mental activity is chemical, because of the chemical neurotransmitters involved, the fact is that neurotransmitters are created only when bioelectric impulses induce a voltage in a neuron which exceeds its firing threshold. In addition, EEG (electroencephalogram) technology shows that mental activity can be effectively analyzed and monitored entirely by electromagnetic principles. In electrical engineering, it is an established principle that all electrical currents produce surrounding electromagnetic fields. Accordingly, our psychological and emotional activities are sent throughout the body as bioelectric impulses, radiating electromagnetic fields outside the body, which are characteristic of the mental activity that generated them. Indeed, even the mere movement of atoms will produce a quantifiable electromagnetic field. This is most clearly observed in the case of charged radioisotopes, but even neutral atoms and molecules will emit a field through valence motion of the charged substructure particles.



As proven by Russian Tesla technology experiments in the 1950s, this phenomenon causes prokaryotic organisms to produce an external electromagnetic field, which consists of the combined electromagnetic emissions from millions of molecules in the biological body.

There are a few different photographic techniques in use that allow us to see various 'light-fields' or 'auras' that encircle the body:

—Polycontrast Interference Photography (PIP)—developed in the late 1980's by [Dr. Harry Oldfield](#). He developed a scanner which could provide a real time, moving image of the energy field. He believed that the future of analysis lay in finding an effective scanner which can 'see' imbalances in the energy field rather than disease in the physical body.

Dr. Oldfield thought that the human energy field might possibly interfere with photons—'energy packets' of light—or even what might be called 'subtle energy photons' in some way. He decided that ambient (surrounding) light would be interfered with by the field both when the incident ray travelled towards the object and when the reflected ray bounced off the object. In the main, the 'object' of his interest was human beings. He devised a computer program which would analyze the different light intensities being reflected from the person or object being scanned. He says:



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—We believe that we are showing up an energy interaction with light, which is giving us an insight into the energy counter-part, the etheric template on which our physical molecules are strung. On average, every atom in the human body is replaced every seven to nine years. Think of your body not as a physical structure but as a moving fountain of molecules that are constantly being replaced. So what keeps them in a coherent recognizable form? We believe it to be an organizing template of energy. To see the body's energy field with PIP, ideally the person is in a room with full spectrum lighting at a controlled output, standing against a white backdrop. The picture is taken with a digital video camera which acts like an artificial eye. A lead from the camera acts like an optic nerve connecting it to a computer which acts like an artificial brain. The program which runs the system is the artificial thinking process which makes sense of all the millions of bits of information. The computer screen then displays the end project of what the 'brain' has seen. The PIP system shows up many patterns and colors which a trained eye can relate to a person's energy balance and wellbeing and although some of these things might be connected to health we emphasize that the system does not take the place of medical examination or diagnosis.

Dr. Oldfield is often asked whether the colors seen with PIP are the actual colors of the aura? He replies:

—Absolutely. Some clairvoyants and mystics with their gifts helped me develop some of the filters in PIP which simulate what they see. They naturally have eye and brain mechanisms that can pick up these subtle changes of light. When you're looking at chakra colors on our visual equipment, you're not just seeing one color, you're



seeing a mixture of colors. But if a chakra is behaving itself perfectly, one color will predominate—for instance the throat chakra has more of a blue hue when it is balanced than when its not. The same with the base chakra—it will be a dirty muddy brown if there are problems and red if it's healthy. Also when red kundalini energy goes elsewhere, that is, goes into the wrong place at the wrong time, there is a potential danger. We are able to show this potential danger to people when they have a PIP scan.

There are other techniques being used including Resonant Field Imaging (RFI) which was created by Matthew Green. The RFI technique scans the body at various points and registers the various frequencies it is picking up. Its software algorithm then translates these frequencies into different colors which correspond to the bioenergetic health state of the body. And there is a sound based measurement system called the Electro Scanning Method (ESM) which was also created by Harry Oldfield. In this system, the patient is pulsed with high frequency sound waves via electrode which results in resonant fields appearing around the body. A sound meter than takes measurements around various parts of the body. These measurements are then compared against the readings of a healthy individual. The reading points usually correspond to the locations of the chakras.

What these devices / techniques are showing is that there are energy fields in and around the human body that we can measure with modern-day technologies. In some cases



the field is picked up as electrical changes and in the case of the ESM, as sound frequency emanations (noting that sound is also a form of energy). Our bodies are bioelectrical energy systems. These systems also show that they are picking up distinct energy field readings at the locations of the ancient chakra and meridian systems, meaning that there are bioelectric energy centers and pathways in the human body. By reading the state of these energy fields, we can understand a person's physical and mental health perhaps earlier than with conventional means and take proactive steps to enable healing.

But a natural question is what's traveling through these energy systems (chakras and meridians) and where does it come from? It also raises the question, what comes first, the energy field which then influences the human body, or does the body come first and then emit an energy field as a result of its functioning? Or do they work concurrently? Further, how are the various energy centers connected? Can they be isolated and healed independently or are they interconnected in such a way that a different approach is necessary? And, if our bodies are running on light energy and information, what would affect the quality of that energy flow? Could our thoughts, environment, food, chemicals, physical exercise, access to the sun all affect the energetic flow within our human biofield?



First, let's take a look at Professor Fritz Popp's research on the field of Biophotonics. Biophotons are weak photon emissions within biological systems. These emissions can be thought of as weak electromagnetic waves in the optical range of the spectrum—they are thus a form of light. Since the early 1930s, scientists have known of the existence of biophotons in the cells of all living things including plants and humans.

German biophysicist Fritz-Albert Popp has since 1974 been a pioneer in the applied research of biophotons and has gone on to show that they originate from DNA and also have a coherent laser-like nature. Professor Popp has gone on to show that biophotons are at the heart of energy transmission and information coordination in and between cells within the body.

Popp's work answers some of the previous questions that we asked—what is driving the energy / information network within the body. He writes:

—This light emission is an expression of the functional state of the living organism and its measurement therefore can be used to assess this state. Cancer cells and healthy cells of the same type, for instance, can be discriminated by typical differences in biophoton emission. According to the biophoton theory developed on the base of these discoveries the biophoton light is stored in the cells of the organism—more precisely, in the DNA molecules of their nuclei—and a dynamic web of light constantly released and absorbed by



the DNA may connect cell organelles, cells, tissues, and organs within the body and serve as the organism's main communication network and as the principal regulating instance for all life processes. The processes of morphogenesis, growth, differentiation and regeneration are also explained by the structuring and regulating activity of the coherent biophoton field. The holographic biophoton field of the brain and the nervous system, and maybe even that of the whole organism, may also be basis of memory and other phenomena of consciousness, as postulated by neurophysiologist Karl Pribram and others. The consciousness-like coherence properties of the biophoton field are closely related to its base in the properties of the physical vacuum and indicate its possible role as an interface to the non-physical realms of mind, psyche and consciousness. The discovery of biophoton emission also lends scientific support to some unconventional methods of healing based on concepts of homeostasis (self-regulation of the organism), such as various somatic therapies, homeopathy and acupuncture. The 'ch'i' energy flowing in our bodies' energy channels (meridians) which according to Traditional Chinese Medicine regulates our body functions may be related to node lines of the organism's biophoton field. The 'prana' of Indian Yoga physiology may be a similar regulating energy force that has a basis in weak, coherent electromagnetic biofields.

You may be wondering how we know that the heart has its own brain and that it is driving more direction to the brain than the other way around. The details are found in research done in the early 1990's in the emerging field of neurocardiology:



—After extensive research, one of the early pioneers in neurocardiology, Dr. J. Andrew Armour, introduced the concept of a functional ‘heart brain’ in 1991. His work revealed that the heart has a complex intrinsic nervous system that is sufficiently sophisticated to qualify as a ‘little brain’ in its own right. The heart’s brain is an intricate network of several types of neurons, neurotransmitters, proteins and support cells like those found in the brain proper. Its elaborate circuitry enables it to act independently of the cranial brain—to learn, remember, and even feel and sense. The heart’s nervous system contains around 40,000 neurons, called sensory neurites, which detect circulating hormones and neurochemicals and sense heart rate and pressure information. Hormonal, chemical, rate and pressure information is translated into neurological impulses by the heart’s nervous system and sent from the heart to the brain through several afferent (flowing to the brain) pathways. It is also through these nerve pathways that pain signals and other feeling sensations are sent to the brain. These afferent nerve pathways enter the brain in an area called the medulla, located in the brain stem. The signals have a regulatory role over many of the autonomic nervous system signals that flow out of the brain to the heart, blood vessels and other glands and organs. However, they also cascade up into the higher centers of the brain, where they may influence perception, decision making and other cognitive processes.

—from *Science of the Heart*, HeartMath® Institute

If our hearts are generating electromagnetic fields and communicating within our bodies, then they are also communicating through those same fields outside the body with other people. We are all highly interconnected. The HeartMath® Institute’s research shows that the heart is an access



point for spiritual intelligence and that as people increase their heart coherence through positive emotions such as love, compassion, and gratitude, their heart-field grows stronger and thereby they access greater amounts of intuitive information.

The fourth major move forward is a beautiful culmination of the principles of quantum physics and biology, TCM, Indian energy medicine, biophotonics, and a novel method to imprint energy healing information on to 'neutraceuticals' to help the body regain its proper energy and information conductivity. This major step forward in understanding the human biofield is from two decades of work by Peter H. Fraser who later partnered with Harry Massey to form the company [NES Health](#) to commercialize their findings.

They explain the details of their research and technology in their book, [Decoding the Human Body-Field](#):

Throughout your body, there are trillions of chemical processes that form a tangled web of interconnections to make the enzymes, proteins, hormones, and other substances that your body needs to work properly. All of the processes must be exquisitely timed, and these substances must be produced in specific quantities and delivered with precision to the correct cells. It seems only reasonable to assume that this intricate biological dance must be choreographed by something. That something is information.



The NES team have focused on the observation that water is the key information conduit within the human body and Fraser's background as an acupuncturist and homeopath, showed him that water can be imprinted with information, it has memory:

—The latest research shows that DNA and genes can carry out their function only with the help of water. As Felix Franks, of the University of Cambridge said in a New Scientist article, 'The Quantum Elixir,' 'without water it is all chemistry, but add water and you get biology. Homeopathic remedies are made from substances, such as minerals or plants, that are placed in a solution, usually mostly water, which is the success (vigorously shaken). The solution is the diluted further and the procedure repeated, often until not a single molecule of the original substances remains in the remedy. All that remains is information. In effect, the remedy retains a memory of information about the healing substance the body can recognize and use.

Fraser's work over twenty years was driven by his own Chronic Fatigue Syndrome. In order to treat it, he decided to analyze his own acupuncture points and see if he could understand how to measure energy levels at the various meridian points and chakras and see if there were substances that would increase energy specifically at those locations. The main idea was that if he could resolve the energy level at a certain troublesome point(s) in the body, then that would 'unclog' the overall natural energy flow or 'ch'i' throughout his



whole body and restore him to proper health. He first tried with plants:

—He had devised a way to test plants for their 'energetic signatures' by using an electrodermal-type testing machine, which is an electronic machine that is said to detect the distinct energy of a substance. Traditionally electrodermal machines have been used to detect changes in electrical resistance at the acupuncture points on skin, indicating where there may be a blockage. However, you also can use such a machine to detect whether there is an energetic imprint in one sample that is similar to—or sets up a like-like response to—a different substance.

Thus Fraser with trial and error of thousands of plants and other substances was able to test if there was an energetic response between various substances and his own skin / blood. In other words, there was an energetic match where a substance 'talked to' his own blood or saliva samples. He eventually found some that matched up well. But Fraser took this energy matching even further, he wanted to map out the complete Chinese acupuncture meridian system to fully understand how the body was communicating energetically within itself.

Fraser acquired ampoules, which contained the homeopathic, or energetic signatures of just about everything of importance in the body. He had ampoules representing nearly two hundred different kinds of cells and various kinds of tissues, from skin to gut to brain samples, and blood, enzymes,



hormones, and the like. He had amassed droves of minerals and elements from calcium to potassium and he had the samples of environmental chemical and toxins. He then attempted to match energetic aspects the contents of each ampoule to various acupuncture points on the body, using himself as the guinea pig.

In traditional chinese medicine, there are twelve main meridians and 365 acupuncture points along those meridians.

—Peter explored the meridians by doggedly testing the contents of thousands of ampoules against the acupuncture points for energetic matches. A match suggested that the substance in the test ampoule was important to the proper functioning of the meridian or to the organs and body processes correlated to that meridian. A match meant there was an energy connection, a communication between the two.

By looking at these matches, Peter Fraser was able to map out what parts of the body were connected to and communicated more strongly to other parts. Some of his observations confirmed chinese medicine beliefs built up over thousands of years and some paved new ground:

—Chinese medicine views the heart meridian as the master connector, holding all the energies of the body together and linking them to the brain. Peter found that was the case...but according to his test, the only part of the brain the heart talked to was the mid brain ... the mid brain controls many of the regulatory functions of the body such as blood pressure, blood sugar levels, and body tem-



perature. He also found that the meridians connect strongly to connective tissue, which forms a massive network in our bodies. It is a web of tough, fibrous fascia and branching tissue that serves as a soft framework for the body, reaching every cell in the body.

So essentially, Fraser has been able to show how the ancient Chinese meridian system is in fact working within the body and is connecting to every cell—thus providing an electrical grid for the body to deliver energetic information for its complete functioning. Here is a video giving an explanation of the NES Health System and some of the science behind their technologies:

The research work at NES is breakthrough and cannot be adequately conveyed in a short article. I would highly recommend reading the book—*Decoding the Human Body Field*.

Through their efforts, NES is converging on much of what has been postulated by ancient wisdom teachings along with theories more recently generated by quantum physics and biology. Here is a concise list of their ten key principles from the Fraser / Massey book, [Decoding the Human Biofield](#), which illustrates their work and findings:

—The universe is an interconnected network of information and energy. The human body is part of this web of relationships (via feedback loops), and our health is dependent upon the body's correct processing of this information and energy. Although genetics and cellular chemistry are important facets of how the human body



works, there is a deeper reality to the body, one in which physics, especially the field of quantum electrodynamics, governs physiology. The interaction of quantum waves imparts energy and information that is encoded in what NES calls the human body-field, which serves as a holographic template for the physical body. Information is directed in the body via many kinds of energy, including electromagnetic and vibrational (as phonons, the quantum aspect of sound) energies, and via frequency and phase relationships. An embryo develops the organs by creating energetic driver fields, which impart constitutional energy and information to the body-field and hence to the body. There are at least twelve energetic integrator fields, which form a comprehensive communication network in the body field that directs information to the right place in the body at the right time so that body functions correctly. Energetic terrains are energetic disturbances in specific body tissues that create environments hospitable to microorganisms, such as viruses and bacteria, both real and virtual (the microorganism's energy field, rather than the actual microorganism). They can be highly disruptive to the body field. Symptoms of illness, whether physical or emotional, arise first not in the physical body, but as distortions or blocks in the underlying energy and information of the human body-field. It is possible to analyze the holographic human body-field to determine if there are distortions in or blocks to the flow of energy and information that affect the state of our health. Substances and liquids can be encoded or imprinted with information to influence the energetic state of the body field, and hence the physical body. The NES Infoceuticals are created according to this principle. Correcting the distortions in the human body-field can help return the body to homeostasis, which refers to the body's abil-



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ity to maintain equilibrium, a process that is dependent on the body's own self-healing intelligence.

NESHEALTH RESEARCH FINDINGS

Click [here](#) to view the results of various clinical trials using NES Health technologies.

—Jay Kshatri

www.ThinkSmarterWorld.com

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