NES HEALTH
Through Energy & Information

The Seven Major Principles of the Human Body-Field

This is an edited version of a lecture delivered in 2007. It provides an overview of the foundational elements for creating and maintaining the human body-field. Scaling effects are enlarged upon in the last chapter.

In this lecture, I am going to outline the seven major principles that I have uncovered between 1997 and 2007 in my research into the human body-field, the self-organising energy and infor- mation structure that informs the human body and regulates all of physiology. These principles have changed my understanding of biology, medicine, psychology, evolution theory, ecology and more. Because aspects of the many NES Health Systems (NES) theories have such a broad application, each of these ideas is worthy of tertiary study, but here I have time to cover only the ideas of each topic.

1. Body Cavities and Zero-Point Energy, or Proton Scaling Effects

We must always look at how the energy of the body is set up in the first place, and cavities provide the mechanism. Cavity physics is the study of energy in enclosed spaces, as these spaces can amplify and do other interesting things to energy. It was the study of what is called black- body radiation of a cavity that led to the discovery of Planck's constant and opened the road to quantum physics early in the twentieth century.

How do cavities apply to the human body? Well, the body is structured around cavities. There are the three major cavities: cranial, thoracic and abdominal. Within these there are all kinds of other cavities, at certain preferred scales. The organs and glands are cavity-like, as are the bones, the vessels, and so on. Then there are the cells, which are cavities themselves and have further cavity-like structures internal or external to them. Embryology is about the development of cavities. Cavity physics has relevance to the human body, although biologists never see this. Yet ancients did, such as those practising traditional Chinese medicine.

What might the cavities be doing in terms of energy and information in the body? Storing and resonating with zero-point energy (ZPE). Zero-point energy is the energy that is left when matter is cooled to its lowest energy state, at absolute zero. All that is left then is the motion of so-called virtual quantum particles. This ZPE field has never been measured because it is everywhere and it creates no difference in potential, so measurement is not possible. This energy does not flow. It's just there, as the 'field of all fields'.[1] Recent studies have shown for the first time that zero-point energy is used by the body, at least by the water molecules in the body, which through their use of zero-point energy can actually work to mediate DNA processes, such as the production of proteins.[2] However, we call this energy in the NES system 'Source energy', since we cannot be sure that it is ZPE. It probably is, but we don't know definitively yet. I have no test item for ZPE, so it remains non-scientific; it is just a proposal.

My first experiment in terms of cavities was with a biologist and an electronics boffin in Australia. At a cost of hundreds of thousands of Australian dollars, I made a huge model of a hydrogen atom and then put an antenna in it to see if it was picking up energy from space. We shielded it, of course, like a Faraday cage, but we still picked up very narrow bands at a frequency of over 1 GHz. They were narrow purely 'magnetic' spikes, forming a pattern above and below a low-carrier frequency. We considered the hydrogen molecule as a set of polar cavities in space. And we detected energy from nowhere! We didn't know what we had, but the idea intrigued me - the idea of cavities attracting, storing and even tuning in to some sort of magnetic energy.

I used the idea over many years to show how the human body-field could borrow energy from space if it had something like a co-axial resonator, as it is called in electronics. As I said, the body is full of cavities: cells, tubules, bags, sinuses and organs. There are some really important ones in the head called the cerebral vesicles. According to our theory, all of these structures are part of a resonating

1 See Lynne McTaggart's book The Field: The quest for the secret force of the universe, HarperCollins, London, 2001

2 See Robert Matthews, 'The quantum elixir', New Scientist, April 8-14, 2006, 32-7

system that collects energy. This collecting goes on at the atomic level and I believe that collecting goes on up the anatomical scale too, in larger and larger structures, until we get to the three major cavities in the body - the cranial, thoracic and abdominal cavities.

Chemistry is based on quantum physics, which is all about energy transfer between photons, electrons and other waves. Light can also transfer energy inside a molecule and this has been the subject of major study in recent times by biophysicists. Of course, light, the photon, is of major importance to physics, and quantum electrodynamics (QED) may be of major importance to biology.[3] Dr Fritz-Albert Popp, of Germany, has consolidated the discovery that living cells, in the human body and in other organisms, emit ultra-weak light,[4] a discovery originally made by Gurwitsch. That is an important development in the overall picture of an energetic structure that envelops and even directs the function of all living things. Professor Popp will be a long-remembered pioneer.

In my theory, there are several fundamental fields that must be present to create and support the human body-field. The human body-field is a special type of field that goes with all living things. It is not exactly what Alexander Gurwitsch called a morphogenetic field way back in 1923, but I still like his ideas. My theory identifies a complex structure to the body-field, so it is not an amorphous entity, like an aura, or even the chakras. We are not talking metaphysics here! In terms of quantum, I believe that living organisms represent a 'special case' in biology of the use of fields and forces, be they quantum or not, as we just don't know really. But let me get back to specifics and list the minimum requirements of a body-field:

- Zero-point energy. This could be related to proton scaling caused by the creation of a standing wave in space.

- An electrostatic charge, which is created both by ionised particles in solution (such as in cells) and the action potential of the elements of the nervous system.

- Light, even in small amounts, of certain high-energy frequencies, both internal and external to the body.

- Gravity and magnetism frequently are found at once, which is why so-called 'earth energies', such as those that contribute to geopathic stress and external magnetic fields such as the Schumann resonance, may have a slow but via the body-field.

- Magnetic confetti, a term I have borrowed from Dr Bevan Reid, of Australia, who, like physicist Harold Aspden,[5] believes that the electron has a magnetic capsule which can shatter. Information exchange takes place when an electron's magnetic capsule is broken open through an interaction with a photon. These magnetic fragments, which Reid called magnetic confetti, may be left over from the exchange. Molecular bond breaking, as in the forming and breaking of hydrogen bonds, in the body also may be the process by which magnetic confetti is generated in the body. However, I also believe that what Reid calls the electron's 'capsule' may actually be the electron's spherical standing wave, which has a charge and forms magnetic patterns in space, according to astrophysicist Milo Wolff's space resonance theory.

As I said, whether or not this body-field is a QED field remains a huge question that we cannot yet absolutely answer. But we believe cavities are a big deal in terms of the biophysics of the body. Think of musical instruments, which each has its own shape and so tunes energy differently. The body has its own musical score. Everything vibrates and has its own frequency; everything moves, from sub-atomic particles to molecule to cells. The organs such as the heart and stomach and so on have their own movements, the blood flows - you get the idea. Cavities, then, may attract and store other energies, and they store them for use by the body. They may even amplify or 'tune' these energies at a certain frequency because of their particular structure or shape and movement. Where you get energy exchanges, you get information exchanges, which are the basis of the information regulation processes of the human body-field.

Now, all that said, I also have to add a caveat. There really is no good correspondence between the textbook conventional theories of quantum theory, like the standard model, and my theory of the human body-field. Quantum physics is about

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3 For more about QED, see Richard Feynman's The Strange Theory of Light and Matter, Princeton University Press, Princeton, NJ, 1985.

4 For an analysis of delayed luminescence of plants, see www.sciencedirect.com. For Popp's work, see any of his many works or compilations, which tend to be very academic. For a layperson's view of his work, see Lynne McTaggart's The Field, HarperCollins, London, 2001.

5 Harold Aspden is a member of the British Institute of Physics and the author of numerous articles and books, inclu- ding the monograph Physics without Einstein. See http://peswiki.com/index.php/Harold_Aspden.

energy transfer only, but the body-field appears to be concerned with both energy and information transfer.[6] Milo Wolff's space resonance theory of quantum physics, which is not widely accepted but should be, is more sophisticated than the standard model in some respects, because it allows for both energy and information transfer. What's more, it allows for energy and information transfer over vast distances, what is in effect nonlocal information transfer, although he doesn't identify, as far as I know, the exact distances possible. Wolff also has not investigated the physics of cavities in this theory, although he has speculated on how it might apply to biology.[7] So we are in the early days of a biological revolution and it is unwise for us to be dogmatic at this stage of our understanding of how quantum physics may be at play in biology.

One other caveat: a moment of reflection will reveal that the idea of magnetic confetti may also have to be questioned if we accept the Wolff theory, as I just indicated. I haven't told you about Wolff's theory yet, although I am about to, and you can investigate it yourself, as there will be little time to go into it in any detail, but I do want to be clear that there are other possibilities as to how what we call magnetic confetti might be generated. With the Wolff model we might be able to understand magnetic confetti as not originating from the electron-photon exchange or the breaking of molecular bonds but as the remnants of standing waves, which are left when they cancel or are affected by phase shifts to the point that they break up. Good science always requires a certain amount of simplification of data and theories, and this may be the case here.

2. Space is Self-Organising in Terms of Information

We are at the frontiers of biology and physics with our theory of the human body-field, and we find many others with valid and intriguing ideas keeping us company. One such person is American astrophysicist Milo Wolff, whom I just mentioned. I very much like his space resonance theory, which is also called the wave structure of matter theory, and it supports NES' theory very well. We came to Wolff's theory long after I had begun my research - almost 30 years later in fact - but it supports what I already found beautifully. I refer you to Wolff's book Exploring the Physics of the Unknown Universe, to find out more about his theory.[8] As I said, I don't have time to even begin to review it, but it proposes only three fundamental particles - the electron, proton and neutron - and says that all other particles are 'appearances' caused by how the interaction of electrons (which are spherical scalar standing waves, having in-waves and out-waves) interact and thus affect the configuration - or resonance - of space. We are, of course, not talking about three-dimensional space, but quantum space. But I leave it to you to learn about this by reading the physics.

Suffice it to say that the properties of space have not really ever been studied, and Dr Wolff states that he thinks it's about time they were. When energy exchanges take place, information exchanges take place. But information, to be useful, has to be what you might call 'structured'. In the 1990s, long before I read Milo Wolff's book, I was doing 'space resonance matching' experiments with ampoules that contained liquid or matter that had been imprinted with information along the lines of homoeopathic imprinting. My space resonance matching technique revealed that when two samples 'talked' to each other, they exchanged energy, and in doing so imparted information. I tested thousands of samples, usually of homoeopathically imprinted materials, such as body tissues or minerals and such, and repeated these tests over and over, for nearly 30 years. I amassed mounds of data about what 'talked to' (or 'matched with') what, and what didn't.

But what was I to do with all of this data? How was I to organise it? From ancient Chinese sources I finally gleaned the information needed to set up a test for ordinality and sequence in this mass of data. By

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6 Information fields are becoming the focus of research and theory in physics. See in particular the work of physicists Anton Zeilinger and Jacob Bekenstein. Bekenstein says, 'Ask anybody what the physical world is made of, and you are likely told matter and energy. Yet, if we have learned anything from engineering, biology, and physics, information may be just as crucial an ingredient.' From 'Information in a holographic universe', Scientific American 15, no.3 (2005), 75.

7 Fraser's private conversations with Milo Wolff.

8 Milo Wolff, Exploring the Physics of the Unknown Universe: An adventurer's guide, Technotran, Manhattan Beach, CA, 1990

'sequence' I mean matches sorted in one direction or another, having a preferred order. Can you believe that we gained a 'space resonance matching' response only when a sequence of ampoules of imprinted solution were arranged in the experiment in the right order? It is strange. It boggled my mind for many, many years! But this is what happened, and the idea of the body-field was on its way, because without sequence, without order and structure, we don't get meaningful space resonance matching effects.

Now don't be too quick to dismiss this idea. It is not so odd, as it is crucial to biology in other respects, too. Think of DNA, with its four bases which can only be arranged in certain pairings. Think of RNA, too. Think of the production of complex enzymes and hormones by the body, where strict sequences have to be observed, and often a complex biological molecule might have nine or more stages of development. And, of course, there is another important aspect of biology where sequence is of critical importance - in embryology.[9] Whole textbooks are devoted to the correct sequencing of human development, and when there is an error in this order, a clinical pathology results. If you think embryology is totally linked with genetics, you have to think again, because the errors which cause pathology are only between 10% and 15% genetic in origin, which means they are 85-90% something else![10]

Embryology, too, links to cavities, as we can see that a major part of early mammalian embryology is concerned with how cavities form and change as the embryo develops. I think that embryology is an energetic study on its own, and thus I think a thorough study of it should be done from the bioenergetic perspective. Embryology uses the first two principles I have outlined - of cavities and the ordinality/sequencing of self-organisation - together. And, therefore, it is no accident that the embryological development of all mammals has a common route, since the same laws of space will apply to all of them.

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9 Keith L. Moore, The Developing Human: Clinically oriented embryology, Elsevier/Saunders, Philadelphia, PA, 1973

10 Charles J. Epstein, Robert P. Erickson and Anthony Wynshaw-Boris, Inborn Errors in Development. Oxford Mono- graphs on Medical Genetics. Oxford University Press, New York, 2003

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There is nothing new under the sun, since the Chinese in their traditional medicine realised that there was a special type of Source energy (or yuan qi in Chinese) that was important for human development. You can check this out if you like in the major text on the subject, The Theoretical Foundations of Chinese Medicine.[11]

So far, we have ZPE/Source energy + cavities + ordinality/sequence, and we have the basis for a new way of looking at what I might call bioenergetic embryology. Of course the idea is not so new.

Now you will note a curious thing. I am not very interested in the exchange of energy, except in a general way because this is what physics is really about. I am more interested in information exchange, in how information is carried in or by space itself. Space may act as a sort of template for what the energy can do! In other words, I am going to a deeper level of looking at things, beyond energy to the information that underlies it. By the way, information is the hot new topic in physics, with many physicists, such as Anton Zeilinger, saying that it may be a 'thing' in its own right, and indeed the most basic aspect of the universe, more basic than forces and fields and energy.[12]

So now we go on to another incredible characteristic of space - its self-organising ability. I call this property of space, or the process that can take place via space, 'aggregation'. Aggregation is about scale and pattern - about emergence - with simpler or more holistic structures emerging from a flux of other, often complex structures at a smaller scale. Information transfer in nature would be incredibly complex if everything were just collections of spatial structures. Complex life would not be possible, because of the difficulty in powering its information systems. So we need to have a 'self-simplifying' system. That does not mean things are simple or easy. It only means that many seemingly small, separate and chaotic patterns can aggregate and transform into a larger, more structured pattern.

But aggregation is more than the ability to self-simplify - it is the ability of two or more pieces of information to interact so as to form a third, different piece of information, from which processes emerge that we might not expect from the functions of its constituent parts. Carbon and hydrogen and other kinds of atoms group in specific ways to create specific kinds of amino acids. Certain amino acids link in certain ways to form specific hormones. Yet what emerges is wholly different in quality and function from what might be expected just by studying the parts from which it is made.

Things in nature are constructed according to a larger plan, only we don't understand what the larger plan actually is. It probably consists of the laws of spatial arrangement and self-assembly. So in chemistry we see molecules that can self-assemble, and there are very elaborate explanations for how

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11 Manfred Porkert, The Theoretical Foundations of Chinese Medicine: Systems of correspondence, MIT Press, Cambridge, MA, 1974

12 For Zeilinger's comment about information being more fundamental than energy, see Mark Buchanan, 'Beyond reality: watching information at play in the quantum world is throwing physicists into a tail spin', New Scientist, March 14, 1998, 26.

and why this happens, none of them very convincing in the long run. Chemistry explains what goes into life, but not what life is. Or why there is life at all. My point, however, is that this same process of emergence and aggregation happens on a larger scale in biology than conventional biologists will admit - on a scale so large that it includes the entire human body-field. The body-field self-assembles and self-repairs itself according to laws which we are only just beginning to understand. Aggregation is just one of those laws.

3. Space Resonance Matching and Conductivity

Conductivity has been written about at length as an electrical phenomenon, but there are many reasons why we at NES Health don't think that what we are talking about in terms of our 'space resonance matching' experiments or the human body-field is electrical.

So, I want to move on for a moment to look at what space resonance matching means. We are able to test a whole complex system with space resonance matching - testing whether two things 'talk' to each other energetically - and to get an idea of pathology in the energetic sense. We have coined a phrase, 'energetic pathology', by which we mean that we think diseases result from the body using less than optimal pathways of communication to get its work done, pathways from organ to organ, cell to cell, nerve to nerve, and so on. And we even have to include pathways from system to system as well. The idea already exists in traditional Chinese medicine.

There are optimal pathways through the body-field, which in the NES system are facilitators called Energetic Integrators, and the whole body-field can be considered as a three-dimensional structure in space - as a hologram in fact. This hologram, according to our current theory, which is always being refined, has three axes at right angles and complex pathways within it. To make a correspondence, you can think of the acupuncture meridians in a similar way, as easy pathways through the body-field hologram, although our Integrators are more general than meridians. And so our idea of energetic pathology follows on from the idea of changes to the conductivity of space within this hologram. Information apparently flows along these 'superconductive' pathways or just paths of lower resistance in the body-field, ultimately affecting the body.[13] But these pathways are not entirely fixed or static. They can change and shift, as a result of many influences, from diet to exposure to environmental toxins to electromagnetic radiation (the totality of which is called e-smog), to microbes and pathogens to emotional states. The distortion or breakdown of information structures and pathways within the body-field can eventually result in physical pathology.

Going further, we can also look at the micro-level of the body in terms of the space resonance matching that must occur in the walls of the cells, as well as in

13 True superconductivity occurs only at very low temperatures on the Kelvin scale.

the various organelles of the cells and certainly in DNA and RNA. Somehow, the mechanism of space resonance matching can decide which ions are to be accepted by the cell and which are to be rejected. According to Bruce Lipton, a renegade biologist of some celebrity, this space resonance matching is the function of certain types of cells within the cell wall - they are able to change shape, and by changing shape they thereby change the way the cell works.[14] Shape determines space-structure, so is crucial.

Space resonance matching has to be a key feature too of the function of the nervous system. I have never accepted the textbook version of nervous system function. To be fair, there are many competing academic theories about how it works. But I have a different idea.

What is so difficult to explain about the nervous system is that it is discontinuous electrically, so clearly an electrical explanation cannot seriously be considered as a full explanation. The nervous system is also discontinuous chemically, since there are synapses placed at irregular intervals in it. So, if it's not electrochemical in essence, why is the electrochemical system even part of the nervous system's make-up? Could it be that it's there to provide the right energetic or field environment to make the nervous system work as a field mechanism? That's my thinking at this time. What's more, the electrochemical system is an energy-saving device so that it only works at the instant it's needed, when the nervous system needs a sudden and immediate charge, and it works in the places where it's specifically needed. So it works in some aspects, but not for an overall explanation of the nervous system.

It is interesting to note, too, that the electrical aspect of the nervous system works completely outside the actual nervous tissue itself. This is a real problem! The mechanism of charge and depolarisation works outside the nerve cell.

I have taken a different approach. I wanted to know what was going on inside the cavities that are part of the nervous system. If you want to know what is 'powering' something in the body, you look into the cavities of the body. It turns out that there is a long tube called the axon and that some nerves around it are coated and others are not. Our research shows that the axon will 'match' with a photon. Why would that be so? Some nerves are surrounded by 13 tubular proteins called tubulin. Why would this be

Well, I'll tell you: according to my testing, the myelin coating of the nervous system is able to block the space resonance matching process. It blocks the field - the energy and information exchange! So, even if the electrochemical idea is partly right, or right as far as it goes (and bio- logical theories sometimes are partly right), then we have a new model of the nervous system that is based on information transfer in space in the presence of an electrostatic field.

Another curious feature of the nervous system's 'message system', is that we have never seen these messages. Yes, we can see the electrochemical impulses. And when the nerves are cut, they cease to conduct because you have blocked the field. Modern physiology is great at stopping the nerves from working, but is not able to make them work better. NES Health has a theory that says we may be able to that! And not by using chemical means at all.

Cavities and structures inside the brain take on a new meaning now we have a new theory of nerve conduction. Space resonance matching is something that takes place between structures, not between axons or tracts of nervous tissues.

Now we have to go back to look at a previous statement I made about photons space resonance matching with the axon of the nerve. If the actual nerve message is not purely electro-chemical, then what is it? We propose that it is magnetic in character. These messages are apparent magnetic structures that are created by interference patterns, which can appear and disappear easily.

I am venturing toward frontier physics, toward the territory of Milo Wolff, who says that photons are interference patterns created by highly charged electrons. They are not discrete particles but ' appearances', and the information they impart is an 'appearance' too.

Information can be created by interference patterns, and these will be of the complexity necessary to make nerve messages that can coordinate whole muscle systems in their movement. The idea of volition is also terribly important here. The brain has to manufacture the structure of the message using its cavity systems. The volitional message has to go to certain places in the body, but not to others in order to save energy and effort. Once we put volition back into physiology, we are getting closer to the idea of consciousness. But no

14 Bruce Lipton, The Biology of Belief: Unleashing the power of consciousness, matter and miracles, Mountain of Love/Elite, Santa Rosa, CA, 2005

one wants to go there! Except perhaps the Noetic Sciences Institute and NES Health.

So I have to say that I think that the academics have been studying the wrong things in the nervous system. How thought becomes electrochemical signals is now no longer an issue: it doesn't! The] message is pure spatial information presented in terms of structures in space. It is created by volition, which can affect the field that conveys information so that the right area of the body is affected. Where is the centre of volition in the brain? Has it a switch to make it reverse? Allow the choice of on or off? Or maybe? Of course, it must be a non-linear switch, so it has gradations. That means there are many choices in this kind of a system.

So how fast can the nervous system work? Are we looking at a Ferrari with a five-speed gear box? Is nerve transmission the same as information transmission, which must be instantaneous or almost instantaneous? Did dinosaurs think slowly? Here I am being facetious to make a point: can you imagine how jerky and uncoordinated our movements would be if we had a nervous system working at five different speeds?

How do all the nerve cells talk to each other? Space resonance matching. Can axons talk to each other? Sometimes. Depends on their coating. Can synapses talk to each other? How is a nerve message created? Aggregation is the answer.

So let's continue and look into information in structured space in more detail.

4. Information Imprinting

We start exploring this topic by considering phonons, which are quantum-level waves of sound, not to be confused with photons, the waves of light.

A sound wave of up to 100,000 Hertz, when it's travelling through a solid matrix, behaves differently from a normal sound wave. Phonons are just as important as photons in terms of the body-field and body. For example, the heart manufactures a lot of phonons. It also makes over 100 different sounds, according to some sources, although others suggest it makes only four major ones.[15] In our theory, and following traditional Chinese medicine, the heart is a major sensory and emotional organ, so phonons are important. In NES theory the heart is the major imprinter of information into the body. Traditional biology doesn't pay attention to sounds in the body, although a new branch of medicine called neurocardiology is starting to explore this and those researchers are starting to sound a lot like the old Chinese masters!

Perhaps you never thought about phonons before. Here's a place to start. Google the words 'phonon biology' and you will find out about phonons in a quantum biology state being processed by the Golgi complex in the cell. This fits the NES Health observation about the phonon and its link with the structure called the Golgi complex which is found in every cell.

When we at NES Health talk about imprinting, we are leaving homoeopathic ideas behind and looking at all sorts of different effects that interest the physics people. Imprinting is a 200-year-old idea and we do believe that it's time that academia got onto it! But let me tell you about how we are different from traditional homoeopathy. This new version of imprinting is the basis of NES technology.

I did an experiment years ago showing, I thought, that in nature, anything can self-imprint very easily, and all that is needed is a fluctuation in the magnetic field, in ambient light, surrounding the things that are to be imprinted. In other words, the passage of the sun and moon's fields is enough to do it. Of course, all homoeopathic materia medica are imprinted using kinetic energy, but imprinting also occurs naturally and is not something foreign to nature. We can imprint with sound waves, light or magnetic field fluctuations.

To my great surprise, I found that the heart

15 See http://en.wikipedia.org/wiki/Heart_sounds

appeared to be imprinting information, memories only, and onto a lipid cell, if it had the choice of many to choose from. Can people lose their memory when they take certain kinds of cholesterol-lowering drugs, which are supposed to dissolve certain fats? Yes, this does happen. A medical doctor in the USA has already written a book about it![16] And his claims agree with predictions based upon NES theory, for the heart imprints information onto lipids, forming a kind of memory storage and learning system for the person. For some reason people think that memory is in the brain. Yet anyone who has had a massage will know that you get memories flooding to consciousness when a certain part of the body and its muscles are manipulated. Sometimes even sounds over certain parts of the body can induce memory recall. The Tibetans have bells for ringing over the body's energy centres, or chakras as the Hindus call them, bells of a certain frequency.

Suppose your memory of health can be impaired! Most sick people seem to forget what health is like and enter a strange new world where they cannot do things. Then, after they are cured, they can't remember being sick. Can these bits of knowledge, or memories, be passed on to children? Is this how evolution works? These ideas were entertained by Lamarck long ago and still are credible.[17] He was the co-discoverer of evolution with Darwin and liked the idea that tadpoles didn't have to go to swimming college to learn to swim. To know more, Google the words 'Lamarckian evolution' or 'epigenetic inheritance'. If we really want to know how evolution works, we have to drop some of the ideas of the DNA people and look again at the possibility of the structures inherent in space actually being able to influence what and how we learn, and the structure of that learning.

So we can look at education in a new way as well. All we have to do is repeat a message and store it in the body fat. Repeating messages, we know already, is a key to all learning. Could it be just like the homoeopathic kinetic succussion process, where information is repeated a few dozen times in a field of light or sound waves? Testing shows that exactly 16 repetitions are enough.

But let's get back to the mechanism of imprinting. There are two ways of imprinting information onto chemical structures. But to imprint using even these methods, the message has to be repeated. The two methods are:

- By pressure waves and phonons (such as those produced by the heart), which is the very low-frequency method.

- By different visible light frequencies used in a certain way, which is the high-frequency method.

From imprinting we can deduce that the repetition of pulses of energy and information can actually change space! Consider the work of Dr William Tiller, who found that when he removed certain machines that had been used in healing studies over extended periods of time, the space in the room where the studies took place and the machinery was located retained information about that healing work, and this change in space was measurable![18] So, to understand imprinting correctly, you have to alter your ideas of what space is and what its characteristics are, and also what the electron and photon are. And you have to consider the role of sound waves in a sold matrix of phonons.

16 See former US astronaut and NASA medical scientist Duane Graveline's book Lipitor: Thief of memory, Infinity, West Conschohocken, PA, 2004.

17 French biologist Jean-Baptiste Lamarck (1744-1829), whose theory of evolution was based on 'soft inheritance' or 'acquired characteristics', was generally ignored following publication of Charles Darwin's Origin of Species. Nowadays there is a growing movement back towards his theories. See E. J. Steele, R. A. Lindley, R. V. Blanden. Lamarck's Signature: How retrogenes are changing Darwin's natural selection paradigm, Allen & Unwin, 1998.

18 See William Tiller's books Conscious Acts of Creation: The emergence of a new physics, Pavior, Walnut Creek, CA, 2001, and Science and Human Transformation: Subtle energies, intentionality and consciousness, Pavior, Walnut Creek, CA, 1997.

5. Spherical Standing Waves and the Human Body-Field

At NES Health, in terms of the body-field and body, we have not emphasised the frequency idea. Everything in the body, all its structures, has its own frequency. It's the Rife idea from the 1920s and remains a current theory. Frequencies are real and you can add, subtract, heterodyne, resonate and even measure them. This, I know, can be done to human tissues or the data sets that we use to represent the tissues. We use the frequency model in relation to the Energetic Integrators, which are information structures in space, but there is something else that may be even more important: phase relationships, which have to do with how waves move in relation to each other.

So NES Health has a newer idea. It comes from a close and careful reading of the space resonance theory of astrophysicist Milo Wolff. He has proposed the idea of an electron with a centre, and a spherical scalar standing wave of infinite dimensions around the central part of the electron, which we call the place with the highest space density. What we are really talking about here is charge.

According to quantum theory, spin is an odd property of particles. It is not spin in a rotational sense, like a spinning top. In electron spin, for example, one 'spin' is not 360° but twice that - 720°! It's a crazy state of affairs if you are trying to think geometrically or even logically.

Milo Wolff says that as the electron gets what we might call over-excited, or more highly charged, it can appear as two diverging spheres, creating interference patterns of two sorts between what he calls the out-waves and the in-waves. Electrons send out a wave and get a wave back. This wave is what makes it possible for chemical reactions to occur. Of course, this is a gross simplification of Wolff's theory, but you can read more about it yourself. Just this piece of his theory is of paramount importance to the new biology, which Wolff does not talk about, but about which we can still surmise.

Now, remember the frequency compartments of the body-field - the NES Energetic Integrators? They are the 12 information supply pathways in the body-field. But if we have two spherical standing waves, then there are really 24 Integrators, or so you would think. Well, NES Health testing over the last few months shows that this is correct: there are 24 Integrators, although only 12 of them currently have Infoceuticals - the NES encoded remedies for the body- field - devised to correct distortions in them, for reasons I won't go into here. All that is important to know, is that the first 12 Energetic Integrators have relevance to the body and disease in a way that can be easily applied clinically.

So far as explaining pathology goes, we are interested in quantum theory, which is all about the energy levels of the HBF. What we are interested in for our purposes in this lecture, is the positions of the various Energetic Integrators around the spherical standing wave, which can serve as a guide to how information is exchanged and which ultimately can become distorted.

According to classical physics, space is not chaotic at all. In fact, we can agree with this to a certain extent, for we know the body-field is intricately organised. Every organ and tissue has a place in the order of things in three dimensions. But the spherical standing wave can become disordered, distorted through two processes that we might call expansion and compression. What follows is that information carried on the wave can also become distorted. That's why it is so important to correct distortions in the Energetic Integrators in NES therapy. What you are doing is correcting distortions of space associated with electrons, and each electron in its wave form, according to Milo Wolff's wave theory, is of infinite size. When the space associated with electrons is distorted - and this is really information distortion - then chemical functions and tissue functions in the body can go wrong or just cease to occur, and now we can explain why they are corrected by altering the characteristics of space, not so much at a single frequency but at a position or location.

According to the NES theory of energetic pathology, the presence of serious disease correlates to the state of the entire body-field, its whole standing wave, which has become severely distorted. Chronic and serious disease also means that the energy levels may also be low throughout the entire field. For these reasons, I go against the wisdom of many natural practitioners and propose that toxins are not a primary correlative of disease at all, but that their delete- rious effects are the result of errors in the body-field, so that the body cannot then work properly. It is the distortion of the body-field that comes first, that allows the toxin - in whatever form it takes, from a chemical to a toxic thought pattern - to take hold in the first place. Fix the body-field, and the body can then deal with the toxin, because the

toxin has no place to fit into the body-field or body information structure.

So you can now see why we at NES Health say we are not entirely concerned with the physical body, symptoms, diagnoses and diseases. But we are concerned with information exchange and energy/powering fields in the body-field, for everything in physiology is regulated first at the level of the body-field. And at this level, the properties of space, interference patterns, energetic structures, aggregation of these structures and so on are what is important.

But because it makes everyone so nervous to think about not involving the physical body in healing, let's return to the physical body for a moment.

6. Cell Responses to the Environment Means the HBF is a Transceiver

We have to talk here about integral membrane proteins (IMPs),[19] so we are back to the cell wall again to try to explain what is happening. There are two types of receptors in cell walls, generally speaking: those that do things - the effectors - and those that receive input - the receptors. The receptor proteins are tuned to listen to environmental signals, by which I mean temperature, pressure, ionisation and the presence of geomagnetic fields. The receptor proteins can extend inwards into the cell a considerable way. Others extend outwards to the external part of the cell wall. They have two shapes: one for 'active' and another for 'inactive'. Their shape changes according to the electrical charge they carry.

What kinds of messages are these receptors receiving? In the chemical sense they are receiving input about things like oestrogen, histamine and insulin. These are examples, but there are of course hundreds of other substances that they need to receive communication about. Biologist Bruce Lipton thinks that these proteins can 'read' fields. Of course, at NES Health we agree with his approach completely, and we would like to add that it's the field that has the information in it and that it's a configuration of magnetic energy that is the information.

Contrary to what you might have assumed, the DNA does not control the cell, at least not on its own or in the short term. Instead, there is a mechanism whereby the effector proteins of the cell wall are able to influence how the genetic material is 'read', and this is how new proteins are created: in response to the environment of the organism! So, if you find a lot of errors in the DNA, these errors can be in response to an environment and not in response to a disease. This is why gene therapy doesn't work.

By now, I can tell you are getting excited as you realise at last that we have a major chemical mechanism which is linked to the body-field - the IMPs. Now is a good time to remind you of the huge importance of the NES Infoceutical called Cell Driver. If you are not getting a response in your NES protocol, this is the Infoceutical to look at again. This is because it bioenergetically correlates to the behaviour of the IMPs themselves. You can look at the organelles of the cell as intermediaries between

19 Lipton, op. cit., pp. 82-6. Bruce Lipton, The Biology of Belief: Unleashing the power of consciousness, matter and miracles, Mountain of Love/Elite, Santa Rosa, CA.

the cell membrane and the DNA.

But I also take a different path from Bruce Lipton. If the field of the body can affect the IMPs, then surely it can be interfered with by other fields that we are not supposed to be exposed to. This is where the second set of 12 Energetic Integrators comes in.

There is another set of 12 Integrators at a higher energy level than the first set, and these are there to represent the higher energy realms of the electromagnetic spectrum, especially high-level radiation from various sources and X-rays. Some of these Energetic Integrators (beyond the first 12), three of them in particular, when placed together in a space resonance matching experiment, correlate to bioenergetically disabling the immune system, or whole sections of it, such as the lymphatic system. If we are looking for an energetic correlation to disease, then this is a major one, because one of the great mysteries of medicine is why part of the immune system can be disabled (or how it can be disabled in relation to a specific organ or part of an organ). The only way we can explain this, is with the holographic human body-field theory. In our adoption of bio-energetic ideas, a lot of immunology theory can be discarded.

7. Non-local Information

Biochemistry requires that, for something to happen, there has to be a physical contact. As such, the physical biochemical system is a very inefficient information-carrying system. It is not able, according to orthodox theory, to direct long-distance information transfers quickly enough to explain so much of what goes on in the body, even though physiologists try to explain things through the mechanisms of enzymes and hormones and the nervous system.

Is the biochemical explanation good enough? No, it isn't. It can't explain too many things. For instance, every year there are thousands of operations performed on the heart with the person only under acupuncture anaesthesia - by placing needles in the forearms and manipulating those needles strongly for half an hour. This process has nothing whatsoever to do with nerves to the heart, chest or anywhere else! It is through the action of a point called neiguan in acupuncture, found above the wrist.

Likewise, the acupuncture treatment for delayed birth delivery is performed by placing a needle in the end of the little toe and manipulating it for about 20 minutes. The hormone we want to release more of is called oxytocin. It is produced in the brain, testes and ovaries, not the little toe! So somehow the message has to travel right around the body, and it's not really just a nervous system message. The interconnectedness of every cell is important for our survival and one cell on your toe has to be able to communicate with cells in the hypothalamus for the oxytocin treatment to work.

Does the field theory work for the oxytocin treatment? A little bit. The little toe is at the end of the bladder meridian, which goes to various reproductive organs as well as to parts of the brain. Acupuncture is far from a complete and perfect system, but in its general outline it's of great interest to us.

I don't think anyone has much trouble examining communication within the body, even if we can't explain it very well by medical theory. But then we have the work of the Noetic Sciences Institute, of Edgar Mitchell and his colleagues, who are exploring consciousness, particularly communication over long distances between organisms, a process that cannot be explained by any known energy or force. Their research focus is consciousness, but their work

has relevance to the body. Their theory is based on Peter Marcher's model of perception, which is based on phase-conjugate-adaptive-resonance (PCAR), a theory of how two phase waves interact which is very much in line with Wolff's in-wave and out-wave theory.[20] Phase-conjugate-adaptive-resonance is what we believe is going on, in large part, in NES Health's space resonance matching tests. You can read more about PCAR online, as it is too much to go into here. But suffice it to say that it involves phase relationships of waves, with 'like' seeking out 'like', the vibratory space resonance matching of signals and information, and space resonance.

There is a lot of evidence for long-distance instantaneous communication - what is called 'non-local information transfer' - between people and animals and so on. In quantum physics, there is the philosophy of interconnectedness, and some people think that we are all part of a huge energy hologram. In physics, too, we have the idea - the reality - of entanglement, where two quantum entities that were once in contact remain in informational correlation forever, no matter how far apart physically they may be.

So far as NES theory is concerned, we have two different effects that link to the idea of non-locality. First of all, there is the one within the body-field system, where there is an electrostatic charge to carry the field as well as the information within the field. This seems to work within the body-field system and goes beyond the ability of the familiar electrochemical system to transfer information.

We are just beginning to realise, however, that there is another, possibly separate system. This one is not about real chemicals and large biological molecules, like the enzymes and the hormones. It is concerned with thoughts, which are really information structures in space, and their transmission in the absence of an electrostatic field. My belief is that long-distance information transmission is possible. Others do not think this is so. However, it appears to be essentially different from the transmission within the body-field system. It is indeed possible that we exist in a field that carries our thoughts. And this is almost certainly facilitated by the cavities, and perhaps other structures, within the cranium. I am exploring this idea further, but I want to leave you with the notion that we have to go beyond known energy fields and forces to explain consciousness, which is, of course, so big a part of who we are. Our beliefs, thoughts and emotions play a huge role in health, and we must explore them further, from a bioenergetic perspective, if we are to be thorough in our exploration of the human body-field.

Consciousness itself arises from the concept of the HBF. The free flow of information gives rise to consciousness, and this process is not limited to communication inside the body. Consciousness is also about information transfer between your body-field and your environment.