

BREAKING THROUGH

The Energies of Consciousness

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It seems more than fitting that since this is the first issue of *Infinite Energy* that I will oversee as one of three new technical editors, that the subject matter be one that was equally of interest to me and Gene Mallove. All of the materials presented herein were chosen for publication by Gene prior to his death in May, but are items which I would have selected as well for this special issue on the energies of consciousness.

Discussion of the energies of consciousness lies somewhere between spirituality and the fringes of conventional physics. It is controversial and important. Many books have been written on this subject throughout recorded history and who knows how many records were made and conversations had before then. Many wars have been fought over various interpretations and millions of lives have been lost. It is a fundamental concern of mankind. The study of "subtle" energies are, almost by definition, difficult to detect under normal circumstances. It covers events that have resulted in the formation of hundreds of religions and the worship of thousands of gods. In the last few decades there has been considerable effort made to reconcile science and religion using the latest scientific thinking to try to explain the spiritual and general supernatural experiences that are at the root of most religions. All of this writing, fighting, and discussion has not resulted in a good consensus of what is going on. This is a huge subject, as important as any of the other forms of energy that have been discussed in this magazine. In fact, it is quite connected to these energies, but we don't yet know how. When we do know how, it will explain many other unanswered questions and usher in a new age of science and, hopefully, peace.

Part of the problem is that people are very divided in their views about subtle energies. People can roughly be put in the following four categories: 1) Those who have had convincing experiences which make them certain that there is something that is outside of the everyday material world even though they can't explain it or in most cases repeat it; 2) Those who relate to these subtle energies through a religion where they believe mostly due to influence of family and not through direct experience; 3) Skeptics who have not had any direct experience and do not believe in anything that can't be explained by conventional science; and 4) People who do not have a fixed belief or view of the universe and are open to the evidence.

Major impediments to progress also include the difficulty of exactly defining the result of most experiences and the lack of ability to repeat them reliably. A spectacular life-changing experience might be difficult to describe in an objective way and may be the only such experience in a life time. Simple events that are black or white in themselves and easy to see may have to be repeated thousands of times

to see if the distribution of events differs from pure chance and then the difference from chance is so small that it itself becomes the object of debate. A person of Category 1 might have a strong experience, but the Category 2 people will resist it because it does not seem to fit what they have been taught; Category 3 people will want to see it repeated in a controlled setting and when it is not, will reject it strongly. The Category 4 people will be open to the possibility, but always seem to need more evidence before they can make up their mind. Also, many Category 1 people consider their experience to be "mystical" and they enjoy the exclusiveness and mystery of it and do not seek a scientific explanation. All of this makes it hard to get the true reality of these energies into the mainstream so that they can be explored by those most suitable to do so with the full support and cooperation of society.

A healthy spirit of openness and discovery would result in scientists working with people who have had psychic experiences, to try to get repeatable events and reconcile them with all else that is known to improve understanding. Some work like this was done in the study of remote viewing where physicists who had psychic ability worked together to achieve some spectacular results that were valued by the CIA and military. This work (done by Hal Puthoff, F. Holmes Atwater, Russell Targ, Ingo Swan, Joseph McManeagle, James Spottiswoode, and others) was secret during the cold war but after the Soviet threat diminished and satellite reconnaissance greatly improved, the military value of the work diminished and the information became available to a much wider audience. Today, many books are available, classes and conventions are held, and there are thousands of websites on the subject.

Some good work has been done to better understand the parameters involved; quite a bit is known about the effects of various parameters on the energies involved in remote viewing, but we still don't know what these energies are. A few of the things we do know add to the mystery. For example, the energies cannot be blocked by a Faraday cage or by submersion in water, even at great depth. Many well-qualified researchers, including accomplished physicists, have worked hard to understand the nature of these energies; we have included some of that work in this issue of *IE*. The included articles represent a mere tip of the iceberg of the work that has been done, but it is a high quality tip. Unfortunately, there is a lot of poor quality work out there and a lot of sheer nonsense.

When subtle energies are enough understood to be fully repeatable and acknowledged by mainstream science, it will upset a lot of apple carts. Many scientists will have to reevaluate a lot of their thinking and a lot of spiritualists and religious people will have to do likewise. Open and fair minded

people may struggle, but will adjust their views if they have to and carry on. Dogmatic people and people who “know” the truth and don’t want to be confused with the facts will have a tough time and will try to impede the new paradigm as much as they can. This is history repeating itself; it seems to be the nature of people to do so. But this era has the potential to be different. Technology clearly drives the world now, communication is virtually instantaneous, and the resulting technologies will be so spectacular and affect so many in significant ways that it will be very hard to live in denial.

In this issue we present some ideas that help link the physical to the metaphysical. This work is very important and the quality of it is very impressive, especially considering the almost total lack of any mainstream support. William Tiller, Ph.D., has spent over thirty years in an extraordinary effort to learn more about the fundamental nature of consciousness, how it connects to various energies, how it can be mathematically expressed, and how it might help lead to a theory of everything. He did this while being a professor of materials science at Stanford University. The work by Robert Jahn and Brenda Dunne of Princeton is attempting some of the same goals, but is quite different. Jahn, like Tiller, is a professor in the physical sciences, in this case aerospace sciences. Dunne is manager of the Princeton Engineering Anomalies Research Laboratory. Claude Swanson, Ph.D., who studied physics at MIT and Princeton, presents an overview of work that attempts to unify what is known about the physical and metaphysical universes. These researchers know the physical sciences and know how to do high quality experiments and produce results that are unequivocal, especially when combined with some excellent work that has been done in the past. We really should be finished arguing whether these anomalies are real and put full effort into understanding them.

Swanson discusses briefly some ancient Hopi prophecies that made some predictions about the future that have passed the test of time. Even though they present only a general overview, they should not be ignored, partly because some of the predictions for our times give pause for thought and partly because any future prediction that is beyond reasonable chance in its accuracy needs to be addressed from the point of view of our understanding of time. There are many cases of future predictions that can’t be ignored. The understanding of time is another part of the issue around the energies of consciousness that has both physical implications and huge social implications.

The information and theories presented here require effort to follow and understand. Also they may appear a bit arbitrary and will almost certainly change over time. There might be an easier or better way to learn these things, like receiving the information in a trance state or waiting for it to be delivered by a UFO, but these methods even if valid will not make the information convincing or usable to the scientists and engineers on Earth that will eventually want to produce useful devices from it. The hard work eventually has to get done and these efforts are solid contributions to it.

The bad news is that this will take a long time and the good news is it will take a long time. Bad news because a lot of oil will be burned and a lot of environmental damage done that would be prevented with the new technology. Good news because society is nowhere near ready for such

awesome power. People would be flying around in vacuum energy powered vehicles that might be faster than today’s fighter planes and could travel around the world without refueling. They might have powerful weapons on board. Governments as we know them would be incapable of keeping order. Today, we have reached the point where governments cannot stop the spread of information, but information by itself does not cause physical change and governments should not interfere except in rare cases involving criminal activity or defense. Physical change requires energy and people would have huge amounts of it at their fingertips, creating endless opportunities for disaster. A lot depends on how accessible this energy turns out to be. It could be that the devices never get low enough in cost to be affordable by the masses, like nuclear power or jet planes, but that is unlikely. A number of these technologies offer the possibility of low cost devices.

Another factor which has serious implications is that when the subtle energies are truly understood they will be under conscious control. That means that we would be able to guide these incredibly powerful machines by thought alone and over great distances. The need for keeping this kind of power under control is obvious and the way of doing it is unknown. Privacy as we know it might cease to exist. Today, remote viewing is a bit like trying to see something on a foggy night during flashes of lightning. It is hard work and the image is not clear and usually lacking in fine detail. When detail is viewed it is often out of context because the broader view can’t be seen. What if the images were clear and easily gotten? Some kind of control would have to be available to prevent a total collapse of society as we know it. It seems like society would have to be restructured to make use of this knowledge.

By imagining these implications we can begin to understand how a highly advanced civilization might function. Extremes come to mind. Either society would be very tightly controlled, almost in a dictatorial fashion, or it would have to be very peaceful and open. The tightly controlled society would be unpleasant and not sustainable, as has been proven many times. The peaceful open society of course sounds a lot nicer, but I’m not sure it would be stable. A lot depends on the nature of the beings that make up the society. The understanding and control of the subtle energies might profoundly change the nature of people and allow such a society to exist. Lying would not work—people would be able to see the truth. Politicians would be out of business not only because most of them lie but because the best path of action would either be obvious or a reasonable discussion using the scientific method would reveal the best action. Organized religion as we know it could not exist. It would not be possible for many different belief systems to be claiming to represent the only truth when the truth would be obvious to anyone seeking it. The most destructive organizations on Earth are governments and organized religion. They were responsible for over one hundred million deaths during the twentieth century and are off to a pretty bad start in the twenty-first. A radical change is needed and the understanding of the energies of consciousness driven in part by discoveries in the field of new energy might be the driving force.

Technology drives the major changes in the world, not governments and politics. Governments lose power as tech-

nology gives power to the people. But controls must exist and in this case the control might come by true understanding by the majority of people with guidance from some enlightened leaders. The actual path of development of these technologies will probably lead to useful energy devices long before we fully understand the mechanisms involved. That should allow us to handle the energy issue first and then the problems posed by fully developed energies of consciousness and the understanding of time.

The ideas presented in this issue are direct attacks on the problem of understanding these energies, but it could be that the answers will not be found that way. We may have to sneak up on these answers by gaining a much better understanding of our physical world first. The best seekers in the field of new energy know how much we have to learn. We can't explain innumerable anomalies, we don't know what the most elementary particles are or what they are made of, we don't know how many dimensions we live in, we don't know if there is an aether and if there is one what to call it or what it is. We don't even seem to have the foggiest idea of how much of this physical material there is in the universe. It seems we can't even detect about 80 or 90% of it. It is hard to believe that over one hundred years ago the head of the patent office thought it would have to close soon because there would soon be nothing left to discover or invent. Biology offers a whole new set of mysteries. We have a long way to go to discover the secrets of our bodies, let alone the secrets of our souls.

Technology will have to plod along for a while longer while we perform thousands of experiments and try hundreds of new theories. The information we gather goes up exponentially to the point where people have to specialize in narrow fields to do cutting edge work. Most of this information will turn out to be useless or even misleading, but this is the way we have made progress to date and this is probably the way it will be done until we actually do understand these energies of consciousness. That will make us much more efficient and will open the flood gates to even greater knowledge.

Investigators in the field of new energy may be the most likely to achieve results and create theories that link the physical and non physical universes. They do not carry the huge baggage of preconceived notions that more conventional scientists do. Some of the work already being done and that has been done in the past acknowledges the link already, so an active search is on. The defining goal of "new energy technologies" is to achieve "over-unity performance." In the case of cold fusion or any low-energy nuclear reaction (LENR), the source of the extra energy is thought to be some kind of nuclear reaction but this is still debated. In most other technologies, such as those involving vacuum or gas filled electronic tubes, clusters of electrons, collectors of orgone or aetheric energy, and cavitation devices the energy source is thought to be the so-called vacuum energy. This is essentially a source that we do not yet understand and is the key to linking the two universes. A cooperative and coordinated effort in the new energy field would be likely to find some common ground that would make many of the diverse and usually under-funded efforts more productive. This in no way is meant to imply that the research to date has been poorly done or wasteful. Research in radically new fields is by nature chaotic and the pioneers in this field are true

heroes, but the cold fusion field is at least fifteen years old and some original work by Tesla was done over one hundred years ago. It is time for some reevaluation and search for the common ground. I believe this common ground will lead to the linking of the "spiritual" and physical realities and therefore a much better understanding of the energies of consciousness.

Getting on with this important research in a bigger way will require more resources. The most important single resource is skilled people. Not enough young people are being educated in the field or even being made aware of it. This is the fault of the colleges and universities that are too vested in the old paradigm and simply don't even acknowledge the field. The second most important resource is money, since it can buy everything else that is needed. This is closely related to the issue of people because if more people were seeking work and funding, the potential funders would see the field as more serious and less risky. In spite of a significant history, the field is in the early stages of development in that a lot of risk remains and a lot of time and money needs to be invested to achieve production of useful products. Much of the capital needs to come from foundations, universities, etc. to make enough progress so that investors can even assess the risk and therefore evaluate the possibilities. The good news is that when an unequivocal technical demonstration is made of over-unity in a way that is clear to potential investors and accompanied by a sensible and realistic business plan, the money will flow. When this happens, a whole venture capital industry and investor network will be set up to fund the entrepreneurs. A lot of money will flow and a lot will be wasted, but results will be had and it will spur a new industrial and intellectual revolution that will dwarf anything in the past.

Arthur C. Clarke wrote a great book called *Childhood's End*, about what happened when mankind developed its psychic abilities. The discovery and mature use of these incredible technologies will signal our childhood's end and make us real citizens of the Universe.



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