

MIND CONTROL

THE ULTIMATE BRAVE NEW WORLD

Technologies for stimulating the brain and controlling the mind can have benefits, but they have a dark side that military and intelligence planners have been exploiting for decades.

Part 1 of 2

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It would also appear possible to create high fidelity speech in the human body, raising the possibility of covert suggestion and psychological direction... Thus, it may be possible to "talk" to selected adversaries in a fashion that would be most disturbing to them.¹

— US Air Force, *New World Vistas: Air and Space Power for the 21st Century*¹

The idea that the brain can be made to function at a more efficient and directed level has been the subject of research by scientists, mystics, health practitioners and others for as long as mankind has contemplated such matters. In the last decade, advances in the science of the brain have begun to yield significant results. The results of the research are startling, challenging and, if misused, will be frightening. The certainty to be expected from the research is that it will continue to proceed.

The idea that people can be impacted by external signal generators which create, for example, pulsed electromagnetic fields, pulsed light and pulsed sound signals is not new. The following information demonstrates some of the possibilities and gives hints of the potentials of the technology. On the positive side, researchers in the field of light and sound are making huge progress in a number of areas, including working with learning disabilities, attention deficit disorders, stroke recovery, accelerated learning, drug/alcohol addiction and enhanced human performance. The research has shown that certain brain states can be influenced in a way which causes changes within the brain itself. These changes allow individuals the possibility of influencing specific conditions in the mind and body otherwise thought beyond our direct control.

The military and others interested in such things have also focused a large amount of research into this area for the purpose of enhancing the performance of soldiers while degrading the performance of adversaries.

What is known is that great strides in the area of behaviour control are now possible with systems developed and under development by most sophisticated countries on the planet. These new technologies represent a much different approach to warfare which our government is describing as part of the "Revolution in Military Affairs". While these new technologies offer much for military planners, they offer even more to citizens generally. Their potential use in military applications and "peacekeeping" creates the need for open debate of this new realm of intelligence-gathering, manipulation and warfare. The most basic ethical questions regarding use of these technologies have not been adequately addressed.

At the same time that defence and intelligence-gathering capabilities are being sought, independent researchers are fully engaged in seeking positive uses for the technology. The potentials of the technology, like all technology, are great as both a destructive or constructive force for change. The idea of enhancing physical and mental performance while bypassing what heretofore was a long and arduous road to achieve the same results is exciting. Maintaining the research in the open literature and ensuring that constructive uses are encouraged is critical.

I began looking into technologies for stimulating brain performance about fifteen years ago. At the time, there were limited tools available compared to what is now possible. Now it is possible to obtain light and sound, electrocranial and biofeedback tools for use in this exploration. Moreover, there are audio materials also available for use with most of these tools. These audio materials can be used for learning languages, behaviour modification or enhanced performance. The biofeedback side of the new technology is being used to train people to reach specific desired brain states for optimum performance.

The use of light and sound devices for stimulating brain activity which is conducive to

accelerated learning and relaxation is a growing area of interest to many people. Moreover, the use of these tools in conjunction with biofeedback has been the subject of quickly evolving research. The combined technologies of brain state inducement and biofeedback offer exciting possibilities. It has been found with the combination that a person, in a matter of several weeks, can learn to modify purposefully his/her brain activity in a way which would have taken a Zen master twenty years to accomplish. It has been shown that some children with attention deficit disorders can be taught to regulate their brain activities so that they can learn efficiently without chemicals. It has been demonstrated that recovering stroke victims can more rapidly recover when working with brain-biofeedback practitioners and these new tools.

The research is also teaching us a good deal about our suggestibility in terms of influences which have an impact on our behaviour. The underlying message that comes with the new technology is the necessity of providing safeguards against misuse. Additionally, recognition of the everyday stimulation we all get and the effect of these information inputs on our learning processes becomes more clear. The suggestibility of humans, particularly when in a fatigued condition, has been exploited by terrorists, cults and others in pursuit of their own aims. The passive suggestibility of radio and television as we weave in and out of the semi-sleep states is for the most part not even recognised. The passive learning situations become even more relevant when we consider how we "receive the news" in our daily lives. The ability to influence thinking, behaviour and performance is indeed a two-edged sword.

The 1980s and 1990s were focused on building up the physical body. The 21st century will see a focus on building the mind and optimising mental performance. The idea of merging the new technologies into education is interesting and also calls into question who will decide what is to be learned. In the interim, the possibilities are incredible for those interested in such pursuits. The control of our mental function is no different than the control of the muscles in our bodies. Learning to control or coordinate the activity of our minds will propel our bodies through a much more productive and fuller life. The new tools may offer just such opportunities.

On the other side of the issue is the potential for misuse and exploitation of the science. Military planners, law enforcement officials and others are now seeking the covert use of these technologies for controlling the ultimate "information processor"—the Human Being.

MK-ULTRA

"Dr Gottlieb, born August 3, 1918, was the CIA's real-life 'Dr Strangelove'—a brilliant bio-chemist who designed and headed MK-ULTRA, the agency's most far-reaching drug and mind-control program at the height of the Cold War. Though the super-secret MK-ULTRA was ended in 1964, a streamlined version called MK-SEARCH was continued—with Gottlieb in charge—until 1972."¹²

During this period, substantial interest in mind control was stimulated by Soviet use of microwaves. In 1988, "thirty-five years after

security officers first noticed that the Soviets were bombarding the US embassy in Moscow with microwave radiation, the US government still has not determined conclusively—or is unwilling to reveal—the purpose behind the beams".³ The US government did know what was happening. The Soviets had developed methods for disrupting the purposeful thought of humans and were using their knowledge to impact diplomats in the United States embassy in Moscow.

In 1994, a report concerning the MKULTRA program was issued, containing the following information:

"In the 1950s and '60s, the CIA engaged in an extensive program of human experimentation, using drugs, psychological, and other means, in search of techniques to control human behavior for counterintelligence and covert action purposes.

"In 1973, the CIA purposefully destroyed most of the MKULTRA files concerning its research and testing on human behaviour. In 1977, the agency uncovered additional MKULTRA files in the budget and fiscal records that were not indexed under the name MKULTRA. These documents detailed over 150 subprojects that the CIA funded in this area, but no evidence was uncovered at that time concerning the use of radiation.

"The CIA did investigate the use and effect of microwaves on human beings in response to a Soviet practice of beaming microwaves on the US embassy. The agency determined that this was outside the scope of the Advisory Committee's purview.

"...The Church Committee found some records, but also noted that the practice of MKULTRA at that time was 'to maintain no records of the planning and approval of test programs'. ...MKULTRA itself was technically closed out in 1964, but some of its work was transferred to the Office of Research and Development (ORD) within the DS&T under the name MKSEARCH and continued into the 1970s.

"The CIA worked closely with the Army in conducting the LSD experiments. This connection with the Army is significant because MKULTRA began at the same time that Secretary of Defense

Wilson issued his 1953 directive to the military services on ethical guidelines for human experiments.

"Throughout the course of MKULTRA, the CIA sponsored numerous experiments on unwitting humans. After the death of one such individual (Frank Olson, an army scientist, was given LSD in 1953 and committed suicide a week later), an internal CIA investigation warned about the dangers of such experimentation. The CIA persisted in this practice for at least the next ten years. After the 1963 IG [Inspector-General] report recommended termination of unwitting testing, Deputy Director for Plans Richard Helms (who later became Director of Central Intelligence) continued to advocate covert testing on the ground that 'positive operational capability to use drugs is diminishing, owing to a lack of realistic testing. With increasing knowledge of state of the art, we are less capable of staying up with the Soviet advances in this field'. ...Helms attributed the cessation of the unwitting testing to the high risk of embarrassment to the Agency as well as the 'moral problem'. He noted that no better covert situation had been devised than that

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which had been used, and that 'we have no answer to the moral issue'."⁴

They did have the answers to the moral questions on human experimentation but chose to ignore them, destroy the records, hide the truth and still continue in their efforts. Nothing has changed as each participating organisation, using national security laws, avoids disclosure and accountability. The records which were destroyed contained the evidence necessary perhaps to send some participants to jail for society's version of behaviour modification. Once again, there was no accountability and no recognition of the rights of the individuals damaged by these experiments.

Mind Wars

"For the first time in some 500 years, a scientific revolution has begun that will fundamentally change the world as much as the Renaissance and Enlightenment did. A handful of extraordinary new advances in science are taking humans quickly and deeply into areas that will have profound implications for the future."⁵

One of these areas is control of the human mind. The issues surrounding behaviour modification, mind control and information warfare become crystal clear as the facts unfold.

The following is taken from a current military document, "The Information Revolution and the Future Air Force" by Colonel John A. Warden III, USAF, which clarifies their position in the emerging area of research, taking a much different direction than the one described above:

"We're currently experiencing, on an unprecedented global basis, three simultaneous revolutions, any one of which would be more than enough to shock and confound us. The first revolution, a geopolitical revolution, sees a single dominant power in the world for the first time since the fall of Rome. The opportunities that are inherent in this situation are extraordinary, as are the pitfalls. Unfortunately, there is no one around that has first hand experience in how to deal with that kind of single power dominant world.

"The second revolution, and there's a lot of discussion about this so far, is the information revolution. As other people have mentioned, it is following inexorably in tandem behind Moore's law of computing power. Attendant to it, though, is not the creation of new ideas and technologies, but also an exponential growth in the velocity of information dissemination, and for us that is of extraordinary importance. A key part of this information revolution has an awesome impact on competition. The business that introduced a new product ten years ago could count on probably five years before it had to look seriously at potential competitors based overseas. Today, you're lucky if you can count on five months or even five weeks before you are facing the overseas competitor. In today's world, success simply demands rapid introduction of successively new products or military systems. Success now goes to the organization which exploits information almost instantly, while failure is the near certain fate of the organization which tries to husband or hide ideas. Real simple—use it or you're going to lose it.

"The third revolution, which is a little bit more complex, is the military/technological revolution, or in some places called the revolution in military affairs. I'm convinced that this is the first military technological revolution ever because we now have, for the first time, a conceptually different way to wage war. We can wage war in parallel now. In the past, communications and weapons technol-

ogy, especially weapons accuracy, have constrained us to waging serial war. This changes almost everything.

"Biological Process Control: As we look forward to the future, it seems likely that this nation will be involved in multiple conflicts where our military forces increasingly will be placed in situations where the application of full force capabilities of our military might cannot be applied. We will be involved intimately with hostile populations in situations where the application of non-lethal force will be the tactical or political preference. It appears likely that there are a number of physical agents that might actively, but largely benignly, interact or interfere with biological processes in an adversary in a manner that will provide our armed forces the tools to control these adversaries without extensive loss of life or property. These physical agents could include acoustic fields, optical fields, electromagnetic fields, and combinations thereof. This paper will address only the prospect of physical regulation of biological processes using electromagnetic fields.

"Prior to the mid-21st century, there will be a virtual explosion of knowledge in the field of neuroscience. We will have achieved a clear understanding of how the human brain works, how it really controls the various functions of the body, and how it can be manipulated (both positively and negatively). One can envision the development of electromagnetic energy sources, the output of

which can be pulsed, shaped, and focused, that can couple with the human body in a fashion that will allow one to prevent voluntary muscular movements, control emotions (and thus actions), produce sleep, transmit suggestions, interfere with both short-term and long-term memory, produce an experience set, and delete an experience set. This will open the door for the development of some novel capabilities that can be used in armed conflict, in terrorist/hostage situations, and in training. New weapons that offer the

opportunity of control of an adversary without resorting to a lethal situation or to collateral casualties can be developed around this concept. This would offer significant improvements in the capabilities of our special operation forces.

"Initial experimentation should be focused on the interaction of electromagnetic energy and the neuromuscular junctions involved in voluntary muscle control. Theories need to be developed, modeled, and tested in experimental preparations. Early testing using *in vitro* cell cultures of neural networks could provide the focus for more definitive intact animal testing. If successful, one could envision a weapon that would render an opponent incapable of taking any meaningful action involving any higher motor skills (e.g., using weapons, operating tracking systems). The prospect of a weapon to accomplish this when targeted against an individual target is reasonable; the prospect of a weapon effective against a massed force would seem to be more remote. Use of such a device in an enclosed area against multiple targets (hostage situation) may be more difficult than an individual target system, but probably feasible.

"It would also appear to be possible to create high fidelity speech in the human body, raising the possibility of covert suggestion and psychological direction. When a high power microwave pulse in the gigahertz range strikes the human body, a very small temperature perturbation occurs. This is associated with a sudden expansion of the slightly heated tissue. This expansion is fast enough to

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produce an acoustic wave. If a pulse stream is used, it should be possible to create an internal acoustic field in the 5–15 kilohertz range, which is audible. Thus, it may be possible to 'talk' to selected adversaries in a fashion that would be most disturbing to them.

"In comparison to the discussion in the paragraphs above, the concept of imprinting an experience set is highly speculative, but nonetheless highly exciting. Modern electromagnetic scattering theory raises the prospect that ultrashort pulse scattering through the human brain can result in reflected signals that can be used to construct a reliable estimate of the degree of central nervous system arousal. The concept behind this 'remote EEG' is to scatter off of action potentials or ensembles of action potentials in major central nervous system tracts. Assuming we will understand how our skills are imprinted and recalled, it might be possible to take this concept one step further and duplicate the experience set in another individual. The prospect of providing a 'been there—done that' knowledge base could provide a revolutionary change in our approach to specialized training. How this can be done or even if it can be done are significant unknowns [*sic*]. The impact of success would boggle the mind!"⁶

The above report was a forecast for the year 2020. However, the reality is that these technologies already exist and there are a number of patents in the open literature which clearly show the possibilities. This research is not new but goes back to the 1950s.

"A new class of weapons, based on electromagnetic fields, has been added to the muscles of the military organism. The C3I [Command, Control, Communications and Intelligence] doctrine is still growing and expanding. It would appear that the military may yet be able to completely control the minds of the civilian population."⁷

The targeting of civilian populations by the military is a significant departure from its history. In the past, the military has used persuasion through real information rather than using deliberate deception and mind manipulation to win populations over.

"A decoy and deception concept presently being considered is to remotely create the perception of noise in the heads of personnel by exposing them to low power, pulsed microwaves. When people are illuminated with properly modulated low power microwaves the sensation is reported as a buzzing, clicking, or hissing which seems to originate (regardless of the person's position in the field) within or just behind the head. The phenomena occurs [*sic*] at average power densities as low as microwatts per square centimeter with carrier frequencies from 0.4 to 3.0 GHz. By proper choice of pulse characteristics, intelligible speech may be created. Before this technique may be extended and used for military applications, an understanding of the basic principles must be developed. Such an understanding is not only required to optimize the use of the concept for camouflage, decoy and deception operations but is required to properly assess safety factors of such microwave exposure."⁸

Actual testing of certain systems has proven "that movements, sensations, emotions, desires, ideas, and a variety of psychological phenomena may be induced, inhibited, or modified by electrical stimulation of specific areas of the brain. These facts have changed the classical philosophical concept that the mind was beyond experimental reach."⁹

The first widespread interest in the subject of mind control hit the

mainstream of military think-tanks after the Korean War when returning prisoners of war exhibited significant behavioural changes. In 1956, the following was written into the United States Congressional Record:

"Reports of the treatment of American prisoners of war in Korea have given rise to several popular misconceptions, of which the most widely publicized is 'brainwashing'. The term itself has caught the public imagination and is used, very loosely, to describe any act committed against an individual by the Communists. Actual 'brainwashing' is a prolonged psychological process, designed to erase an individual's past beliefs and concepts and to substitute new ones. It is a highly coercive practice which is irreconcilable with universally accepted medical ethics. In the process of 'brainwashing', the efforts of many are directed against an individual. To be successful, it requires, among other things, that the individual be completely isolated from normal associations and environment."¹⁰

The ethical considerations have not changed, but the military's position on the ethics has changed as it has gained significant capabilities in these areas. "Psychological warfare is becoming increasingly important for US forces as they engage in peacekeeping operations. 'In the psychological operations area, we're always looking to build on our existing technologies, so much

of this is evolutionary,' [military planner] Holmes said. 'It is critically important that we stay ahead of the technology curve.'"¹¹ The temptation to dabble in this area has now overcome the ethical considerations.

A Russian military article offered a slightly different slant to the problem, declaring that "humanity stands on the brink of a psychotronic war" with the mind and body as the focus.^{11a} These "psychotronic" weapons aim to control or alter the psyche, or to attack the various sensory and data-processing systems of the human organism. In both cases, the goal is to confuse or destroy

the signals that normally keep the body in equilibrium.

According to a US Department of Defense directive (S-3600.1, December 9, 1996), "information warfare" is defined as "an information operation conducted during time of crisis or conflict to achieve or promote specific objectives over a specific adversary or adversaries". An "information operation" is defined in the same directive as "actions taken to affect adversary information and information systems". These "information systems" lie at the heart of the modernisation effort of the US armed forces and manifest themselves as hardware, software, communications capabilities and highly trained individuals.

Information warfare has tended to ignore the role of the human body as an information or data processor in this quest for dominance, except in those cases where an individual's logic or rational thought may be upset via disinformation or deception... Yet, the body is capable not only of being deceived, manipulated or misinformed but also shut down or destroyed—just as any other data-processing system. The "data" the body receives from external sources, such as electromagnetic, vortex or acoustic energy waves, or creates through its own electrical or chemical stimuli, can be manipulated or changed, just as the data (information) in any hardware system can be altered. If the ultimate target of information warfare is the information-dependent process, "whether human or automated", then the definition implies that human data-processing

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of internal and external signals can clearly be considered an aspect of information warfare.¹²

On a much grander scale, the use of mind control was contemplated as far back as 1969 by a former science adviser to President Johnson. "Gordon J. F. Macdonald, a geophysicist specializing in problems of warfare, has written that accurately timed, artificially excited strokes 'could lead to a pattern of oscillations that produce relatively high power levels over certain regions of the earth... In this way, one could develop a system that would seriously impair the brain performance of very large populations in selected regions over an extended period...'"¹³ This capability exists today through the use of systems which can stimulate the ionosphere to return a pulsed (modulated) signal which, at the right frequency, can override normal brain functions. By overriding the natural pulsations of the brain, chemical reactions are triggered which alter the emotional state of targeted populations.

Subliminal Messages and Commercial Uses

One of the areas where this new technology is being used is in systems to dissuade shoplifters, using sound below the range of hearing. "Japanese shopkeepers are playing CDs with subliminal messages to curb the impulses of the growing band of shoplifters. The Mind Control CDs have sound-tracks of popular music or ocean waves, with encoded voices in seven languages...warning that anyone caught stealing will be reported to the police."¹⁴

A number of devices have been developed to influence behaviour in this way, and patents have been awarded. The following summations are taken from some of these patents dealing with both audio and video programming—only this time, *we* are the program:

"An auditory subliminal programming system includes a subliminal message encoder that generates fixed frequency security tones and combines them with a subliminal message signal to produce an encoded subliminal message signal which is recorded on audio tape or the like. A corresponding subliminal decoder/mixer is connected as part of a user's conventional stereo system and receives as inputs an audio program selected by the user and the encoded subliminal message."¹⁵

"Ambient audio signals from the customer shopping area within a store are sensed and fed to a signal processing circuit that produces a control signal which varies with variations in the amplitude of the sensed audio signals. A control circuit adjusts the amplitude of an auditory subliminal anti-shoplifting message to increase with increasing amplitudes of sensed audio signals and decrease with decreasing amplitudes of sensed audio signals. This amplitude controlled subliminal message may be mixed with background music and transmitted to the shopping area."¹⁶

"Data to be displayed is combined with a composite video signal. The data is stored in memory in digital form. Each byte of data is read out in sequential fashion to determine: the recurrence display rate of the data according to the frame sync pulses of the video signal; the location of the data within the video image according to the line sync pulses of the video signal; and the location of the data

display within the video image according to the position information."¹⁷

"This invention is a combination of a subliminal message generator that is 100% user programmable for use with a television receiver. The subliminal message generator periodically displays user specified messages for the normal television signal for [a] specific period of time. This permits an individual to employ a combination of subliminal and supraliminal therapy while watching television."¹⁸

The above points may seem a bit complicated; however, they can be summarised. These patents are designed to provide a way to hide messages in video or audio formats, masking any suggestions that the programmer wishes to convey. These kinds of messages

bypass the conscious mind and are acted upon by the person hearing them; they are not sorted out by the active mind. Although these technologies are being developed for personal use and as security measures, consider the possibilities for abuse by commercial interests where the messages might be "buy, buy, buy", "drink more, don't worry", or some other self-serving script. Should these systems be regulated? By whom and under what conditions?

New Standards for What is a Memory

"Nevada is currently the only state to allow witness testimony of a person who has undergone hypnosis. As of October 1, 1997, courts hearing both civil and criminal cases can take a hypnotically refreshed testimony, as long as the witness, if a minor, has had the informed consent of parent or guardian, and the person performing the hypnosis is any of the following: a health care provider, a clinical social worker licenced in accordance with 641B of Nevada Revised Statute, or a disinterested investigator."¹⁹

This issue will surely become more complex as technology advances in terms of evidence. When the day arrives

that it is possible to change or alter memory completely, as suggested earlier by military officers, what then? How will we separate the real from the unreal? What will be the impact on the burden of proof in courts as it relates to "reasonable doubt"?

Again, the emergence of the technology has first to be recognised as real before laws can be constructed and systems established for controlling misuse. Think how long it has taken the courts even to recognise hypnotherapy as valid science. We are hopeful that we will not have to wait so long for legislative bodies to take the initiative to address these issues.

Auditory Effects

The questions which this section raises are profound. Is it possible to transmit a signal to the brain of a person, from a distance, which deposits specific sounds, voice or other information which can be understood? Is it possible to transfer sound in a way where only the targeted person can hear the "voice in the head" and no one else hears a thing? Is it possible to shift a person's emotions using remote electromagnetic tools? The answer to each of these questions is a resounding "Yes!" The state of the science has passed even the most optimistic predictions, and the capabilities are here now.

The capability exists today through the use of systems which can stimulate the ionosphere to return a pulsed signal which, at the right frequency, can override normal brain functions.

By overriding the natural pulsations of the brain, chemical reactions are triggered which alter the emotional state of targeted populations.

Military literature suggests that this is possible. A series of experiments, patents and independent research confirm that this technology exists today. While giving testimony to the European Parliament in 1998, I demonstrated one such device to the astonishment of those in attendance. This particular device required physical contact in order to work and was nearly forty years old. This area of research is one of the most important because it points to the ultimate weapon of political control: the ability to place information directly into the human brain, bypassing all normal filtering mechanisms.

In 1995, the US Department of Defense put forward the contract, "Communicating via the Microwave Auditory Effect; Awarding Agency: Department of Defense; SBIR Contract Number: F41624-95-C-9007". The description of this technology, which would be used for direct communications with military personnel, is written as follows:

"Title: Communicating via the Microwave Auditory Effect

"Description: An innovative and revolutionary technology is described that offers a means of low-probability-of-intercept Radio Frequency (RF) communications. The feasibility of the concept has been established using both a low intensity laboratory system and a high power RF transmitter. Numerous military applications exist in areas of search and rescue, security and special operations."²⁰

The feasibility was not only demonstrated in the laboratory but also in the field using a radio-frequency carrier. In the case of the Gulf War, we had always suspected that the reason the Iraqis gave up in mass was not because of the heavy bombardments but because they were being hit with new "non-lethal" systems which created fear and perhaps even worse. Our research uncovered reports which now confirm our suspicions as fact.

"What the 'Voice of the Gulf' began broadcasting, along with prayers from the Koran and testimonials from well-treated Iraqi prisoners, was precise information on the units to be bombed each day, along with a new, silent psychological technique which induced thoughts of great fear in each soldier's mind..."²¹

This makes a great deal of sense today, given what has become increasingly known about mind-control weapons.

"According to statements made by captured and deserting Iraqi soldiers, however, the most devastating and demoralizing programming was the first known military use of the new, high tech, type of subliminal messages referred to as ultra-high-frequency 'Silent Sounds' or 'Silent Subliminals'."²²

The use of these new techniques, we believe, went well beyond the injection of fear and may have involved more powerful signal generators which caused the other symptoms which the world observed, including head pain, bleeding from the nose, disorientation and nausea—all possible with so-called non-lethal weapons. The questions which now remain: Are they still using the techniques like an electronic concentration camp in order to control the population? Is this part of the way in which modern governments will suppress rogue nations?

The development of the technology followed a very traceable history which began in the early 1960s at the height of the Cold War. In 1961, Dr Allen Frey wrote: "Our data to date indicate that the human auditory system can respond to electromagnetic energy in at least a portion of the radio frequency (RF) spectrum. Further, this response is instantaneous and occurs at low power densities, densities which are well below that necessary for biological damage. For example, the effect has been induced with power densities 1/60 of the standard maximum safe level for continuous exposure."²³

This observation had incredible ramifications because it meant that within certain ranges RF could create a sound within the brain of a person at energy concentration levels considered too small to be significant.

Later that year, a patent was issued to Henry K. Puharich and Joseph L. Lawrence which stated in part:

"The present invention is directed to a means for auxiliary hearing communication, useful for improving hearing, for example, and relates more specifically to novel and improved arrangements for auxiliary hearing communications by effecting the transmission of sound signals through the dental structure and facial nervous system of the user."²⁴ This crude device produced a signal which could be heard in the brain by inducing a vibration which was transferred through the bone into the inner ear, where it was then carried to the brain via the nervous system. Puharich continued researching along this line, gaining an additional patent in 1965.²⁵ Both of these inventions required physical contact with the head of the subject.

By 1962, Dr Allan Frey had advanced his work and was able to create sound at a distance from the subject, using a pulsed (modulated) radio transmitter. "Using extremely low average power densities of electromagnetic energy, the perception of sounds was induced in normal and deaf humans. The effect was induced several hundred feet from the antenna the instant the transmitter was turned on, and is a function of carrier frequency and modulation."²⁶

What was occurring in this research were the first attempts to "tune" into the brain of a human in the same manner as "tuning" into a radio station. The same energy was being used; it was just at a different frequency with a slight vibration (modulation) on the carrier wave which delivered the signal.

In 1968, G. Patrick Flanagan was issued a patent for a device which also required physical contact with the skin of the subject. "This invention relates to electromagnetic excitation of the nervous system of a mammal and pertains more particularly to a method and apparatus for exciting the nervous system of a person with electromagnetic waves that are capable of causing that person to become conscious of information conveyed by the electromagnetic waves."²⁷

This invention was much different than what others had created by that time, because this device actually sent a clear, audible signal through the nervous system to the brain.

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The device could be placed anywhere on the body, and a clear voice or music would appear in the head of the subject. This was a most unbelievable device which had actually been invented in the late 1950s. It had taken years to convince patent examiners that it worked. The initial patent was only granted after the dramatic demonstration of the device on a deaf employee of the US Patent Office.

In 1972, a second patent was issued to G. Patrick Flanagan after being suppressed by the military since 1968. This device was much more efficient in that it converted a speech waveform into "a constant amplitude square wave in which the transitions between the amplitude extremes are spaced so as to carry the speech information".²⁸

What this did is establish the code of modulation or timing sequences necessary for efficient transfers into the nervous system where the signals could be sent to the brain and decoded as sound in the same way that normal sound is decoded. The result was a clear and understandable sound.

Continued next issue...

About the Author:

Nick Begich, MD, serves as Executive Director of The Lay Institute on Technologies, Inc., a Texas-based non-profit corporation (his research abstracts and references can be found at <http://www.layinstitute.org>). He is also the publisher and co-owner of Earthpulse Press Inc., based in Alaska.

Dr Begich is the eldest son of the late US Congressman from Alaska, Nick Begich Sr, and political activist Pegge Begich. He is well known in Alaska for his own political activities, and was twice elected president of both the Alaska Federation of Teachers and the Anchorage Council of Education. He has been pursuing independent research in the sciences and politics for most of his adult life. Begich received his doctorate in traditional medicine from The Open International University for Complementary Medicines in November 1994. He has also worked as both a Tribal Administrator and Village Planner for the Chickaloon Village Traditional Council, a federally recognised American Indian Tribe of the Athabascan Indian Nation based in Alaska.

With Jeane Manning he co-authored *Angels Don't Play This HAARP: Advances in Tesla Technology* (see NEXUS 3/01). With (the late) James Roderick he co-wrote *Earth Rising - The Revolution: Toward a Thousand Years of Peace* (7/03) and *Earth Rising II - The Betrayal of Science, Society and the Soul* (10/05). His new book on mind control is to be published in early 2006.

Dr Begich has published articles on science,

politics, health and education and is a well-known lecturer, having presented throughout the USA and in 19 countries. He has been featured as a guest on thousands of radio broadcasts reporting on his research activities including new technologies, health and Earth science related issues. He has also appeared on dozens of television documentaries and other programs throughout the world including BBC-TV, CBC-TV and TeleMundo. Dr Begich has served as an expert witness and a speaker before the European Parliament, for the Global Legislators Organization for a Balanced Environment (GLOBE) and for many other groups. He has also been a speaker at NEXUS conferences in Amsterdam and Brisbane and has contributed articles to NEXUS, his first being an exposé on the HAARP facility in Alaska (vol. 2, no. 22).

Dr Begich is married to Shelah Begich-Slade and has five children. He resides just north of Anchorage in the community of Eagle River, Alaska, USA. He can be contacted via his website, <http://www.earthpulse.com>.

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