

# Effects of GHz radiation on the human nervous system: Recent developments in the technology of political control

Analysis on Mind Control Electromagnetic Weapons

By [Harlan E. Girard](#)

Global Research, May 06, 2006

NATO Advanced Research Workshop on  
Coherent and Emergent Phenomena in  
Biomolecular Systems, University of Arizona  
15 January 1991

Theme: [Military and WMD](#), [Police State & Civil Rights](#)

*Paper presented by Harlan E. Girard, NATO Advanced Research Workshop on Coherent and Emergent Phenomena in Biomolecular Systems, The University of Arizona, January 15-1991*

## Abstract

*The United States has developed communications equipment which can make the blind see, the deaf hear and the lame walk. It can relieve the terminally ill of all pain, without the use of any drugs. A man might retain the use of all his faculties up until the day of his death.*

*This communications equipment depends on a new way of looking at the human brain and neuromuscular system, and gigahertz radiation pulsed at ultra-low frequencies.*

*Some of this equipment is now operational within the Central Intelligence Agency and the Federal Bureau of Investigation. It will never be used to make the blind see and the deaf hear and the lame walk because its use is central to the domestic political agenda and foreign policy of James A. Baker and George Herbert Walker Bush.*

*Domestically, the new communications equipment is being used to torture and murder persons who match profiles imagined to be able to screen a given population for terrorists, to torture and murder citizens who belong to organizations which promote peace and development in Central America, to torture and murder citizens who belong to organizations opposed to the deployment and use of nuclear weapons, and to create a race of slaves called Automatons or what is popularly called the Manchurian Candidate.*

*Overseas, experimentation is taking place on hostages held by the United States in Canada, Great Britain, Australia, Germany, Finland and France. In addition, there has been a long series of bizarre suicides among British computer scientists, all of whom had some connection to the United States Navy.*

*Considering how recklessly, wantonly and indiscriminately America's new weapons have been used, physicians attending the dead and dying should consider the patients known political views and associations before making a diagnosis or conducting an autopsy.*

## INTRODUCTION

In 1988 the Office of Technology Assessment of the Congress of the United States published a special report titled. Criminal Justice: New Technologies and the Constitution. The report surveys the new technologies used in the investigation, apprehension, and confinement of criminals and addresses that delicate balance to be maintained between the national interest and individual rights.

As welcome as this report is to those of us who are interested in a government of law rather than of men, it manages to omit any discussion of the use of directed energy weapons from the section on less than lethal weapons. For instance, a weapon has been developed to paralyze a person at a distance, through a brick wall, if necessary. This weapon was developed during 1983-4 for use in situations where hostages are being held. A variation of this weapon has been purchased by the Marine Corps, for confusing and disorienting the enemy.

American weapons research has centered on pulsed radiation in the gigahertz frequency band for a very interesting reason. In 1972, the Department of the Army researched Soviet and other foreign literature sources and discovered over 500 studies devoted to the biological effects of SHF - super-high frequency electromagnetic oscillations. (1)

SHF may have potential use as a technique for altering human behavior. ...Lethal and non-lethal aspects have been shown to exist. In certain non-lethal exposures, definite behavioral changes have occurred. There also appears to be a change in mammals, when exposed to SHF, in sensitivity to sound, light, and olfactory stimuli.

The significance of this intelligence document in terms of the medical experiments commissioned by the Central Intelligence Agency since 1976 is that emphasis in this report is placed on influencing individuals as opposed to groups.

Secondly, this report is a trend study and therefore contains statements predicting Soviet knowledge and capabilities for influencing human behavior up to fifteen years ahead, or 1987. It foreshadows the enormous effort put into behavior control experiments employing the use of lasers and microwave beam weapons on involuntary human subjects during the Reagan-Bush regime.

Thirdly, despite the report's title. Controlled Offensive Behavior - USSR. it opens with a chapter describing the use of torture on Catholic prisoners in British jails in Northern Ireland. The inclusion of this chapter at all, and its position at the front of the report. clearly is intended to suggest that it is permissible for the United States to torture its own citizens because these methods are being used by our very civilized cousins in Britain, and not only barbarians in the Soviet Union.

Fourthly, the report states that, The purpose of mind altering techniques is to create one or more of several different possible states in the conscious or unconscious area of the brain. The ultimate goal of controlled offensive behavior might well be the total submission of one's will to some outside force.

After discussing some of the possible states short of complete submission which may be the goal of Soviet research in behavior control, the author states, Since the desired end product of this type of research is some change in the human mind, only the non-lethal aspects are

discussed in this report. It should be remembered, however, that some techniques have lethal thresholds.

In the current round of American behavior control experiments, no allowance is made for lethal thresholds. The use of involuntary human subjects provided by the Central Intelligence Agency precludes the necessity for researchers to consider lethal thresholds and legal consequences.

A curious situation has emerged in which torturers and murderers attend our meetings, address us on the failings of our own research, and misdirect us with papers on the benign effects of incubating eggs in 60-hertz magnetic fields, in order to buy time for their own well paid and frequently lethal experiments on involuntary human subjects.

Another document which will be of interest to those wishing background information concerning the technology of political control is *The Search for the Manchurian Candidate: The CIA and Mind Control* by John Marks. It was published in 1977 but has recently (1988) been reprinted by Dell Publishing, with an introduction by Thomas Powers.

Of special interest are the chapters concerning experiments with electrodes in the brain, which were the true forerunner of current experimentation involving invading the human brain and nervous system with gigahertz frequency masers and microwave beam weapons.

Of particular interest in the light of current developments are two paragraphs in the very last chapter which concern a Boston-based CIA front organization, the Scientific Engineering Institute, which still exists, not so incidentally. The SEI was initially established to do research on radar! In the 1960's the SEI added a wing devoted to life sciences, and hired a group of behavioral and medical scientists.

Marks reports, One veteran recalls a colleague joking, If you could find the natural radio frequency of a person's sphincter, you could make him run out of the room real fast. Turning serious, the veteran states the technique was plausible. and he notes that many of The crazy ideas bandied about at lunch developed into concrete projects. Just how concrete that proposal to find the natural radio frequency of the human anal (and penile) sphincter became, Marks had no way of knowing at the time he wrote his book.

Lastly, I would like to cite another Defense Intelligence Agency report also prepared by the US Army. It is titled. *Biological Effects of Electromagnetic Radiation (Radiowaves and Microwaves) Eurasian Communist Countries* It was published by the Defense Intelligence Agency in March, 1976.

The importance of this report rests not on its content, much of which seems to remain classified, but in its acknowledgement of a shift in focus, in less than four years from a wide range of behavior control interests to just one, electromagnetic radiation.

The date of this report is also significant: it was published when George Herbert Walker Bush became Director of Central Intelligence. Experiments on involuntary human subjects were rapidly authorized by the new Director, but to take place outside of the United States because of the wrath of Congress at that time.

An experiment was begun in Edmonton, Alberta, Canada, under the aegis of an American oil company with which the DCI was on friendly terms. It consisted initially of blasting a man's brain with the microwave analog of sound waves for 2-3 hours a day. This has the effect of

producing auditory hallucinations.

For an explanation of how audible voices are broadcast directly into the brain, see ‘Microwave Auditory Effects and Applications’, James C. Lin, Ph.D., Thomas Springfield, II, 1978. For audible voices and their uses in intelligence operations also see ‘The Body Electric; Electromagnetism and the Foundation of Life’, Robert D. Becker, M.D. and Gary Selden, Morrow, N.Y., 1985, particularly pages 317 et seq.

## TECHNOLOGY & METHODS

A further discussion of events leading up to the present series of mind control experiments will have to await another occasion, in favor of a discussion of the technology of which the United States is now possessed.

As I have already indicated, one of the principal features of the weapon system is its ability to produce auditory effects, or hallucinations. Using these effects to broadcast defeat into the minds of the enemy was a particular dream of Lt. Gen. Leonard Perroots, U.S.A.F. He hired dozens of consultants to tell him how to use a microwave beam to implant ideas in the mind of the enemy, and to be perfectly fair, to urge on his own troops to superhuman deeds of valor.

One consultant I have spoken with advised Perroots that it is no more possible to implant ideas in the brain with microwaves than it is possible to implant ideas in a computer with microwaves. He pointed out the impossibility of knowing where any particular bit of information is stored.

The effect this had on Perroots was really quite predictable, considering the hubris of the man, and his access to unlimited amounts of money through the bloated, American defense budget. He kept on hiring consultants until he found one who promised him results, knowing that he, Perroots, would be long retired before anyone could safely say his fair-haired boy was a charlatan.

The smug complacency of the former consultant I spoke with was equally predictable. When I confronted him with the fact that medical atrocities are being committed on innocent human beings, he refused to discuss the subject with me until I could describe the process to him. Subsequently, I stumbled across Lin’s book on microwave auditory effects.

I called the former consultant back again, and again implored him to step forward and be counted. This time, confronted with the process being used, he told me that I had to explain to him the mechanism by which microwaves produce auditory effects! Changing tack, I told him that the mechanism is irrelevant; the process is being used on slave labor in efforts to create the Manchurian Candidate.

His reaction was just as predictable as Perroots’, given the isolation and arrogance of academia. He assured me that such experiments couldn’t be going on because HE had forestalled that happening. HE had told Lt. Gen. Perroots that it couldn’t be done, so Perroots had gone out to fly a kite and forgotten about it.

Actually, that is what should have happened. Instead, Perroots turned to a man who promised him results. This man remembered the microwave analog audiograms used by Dr. Joseph Sharp to beam auditory hallucinations into his own head at the Walter Reed Army Institute of Research in 1973. He promised Perroots that he would talk a human being to

death if he was furnished with the equipment Sharp had used at Walter Reed, a slave, and personal security.

This was the origin of the medical atrocities which begin in Edmonton, Alberta in 1976, under the protection of the Central Intelligence Agency, and continue to this day.

By the fall of 1983, experiments had produced some communications equipment which far exceeded the simple dream of broadcasting defeat into the minds of the enemy. It is not only capable of producing auditory hallucinations, but visual hallucinations as well. The visual hallucinations have been described to me by a German artist, on whom this equipment is being used involuntarily, as having the quality of 35mm color slides.

Besides these sensory hallucinations, the same equipment can be used to block all sensation. It is being used to distort and even completely block all senses. With it the ultimate in sensory deprivation experiments can be performed. There's no peaking under the electromagnetic blindfold this equipment creates.

I should mention in this context, that the Central Intelligence Agency now has at its disposal the most evil, the most cunning torture devised by any government in all of human history. It is truly satanic in its moral and ethical implications. It is a torture which is commensurate with the degeneracy of a nation which is prepared and well on its way to polluting all life on earth into extinction.

The torture I am writing of I can only describe as thought deprivation. It is used in conjunction with sensory deprivation but it is in fact sensory deprivation times  $10^{10}$ .

We are all familiar with the sensation of being exposed to very loud noises. They are irritating, and we try to remove ourselves from them. We might say, It's so noisy in here, I can't hear myself think.

Human beings perceive thought as audible sound. It is something which we hear. We listen to ourselves think. This quality of listening to ourselves think, of hearing our own thoughts, can be extinguished by this device, so that it is not possible to hear oneself think.

I have no idea how this effect is produced. It may be accomplished by playing a signal into the auditory nerve at such a high power that it does in fact drown out the sound of all thought, but I do not believe that is how it is being done. I do not know enough about the physiology of the brain to explain how it might be done, but the Central Intelligence Agency can do it with the mind control technology at its disposal.

That is the bad news. The good news is that one continues to think even if one cannot hear oneself think. Do not panic. There is nothing to fear.

On the other hand, our thought process is what distinguishes man from other forms of life. Cogito ergo sum. But cogito is no longer necessarily possible. Where does this leave sum?

Furthermore, this communications equipment is able to produce pain, enormous amounts of pain. Pain is only another nerve signal, and pain is applied in great quantities in the torture regimen.

Sometimes the pain is specific and describable, more often it is general and indescribable. It is very much like being immersed in water, only it isn't water it is pain The pain surges and

laps at one. like water.

I have also described this pain as being very much like having an electric current passing through one's body. It is like having one's finger held in an electric socket and being unable to turn the current off. Except, this torture is used for years on end.

A skeptic might well ask why? If the United States has such equipment, why is it being used to torture innocents and not Saddam Hussein?. The answer is the cowardice factor.

It is quite one thing to torture innocents for a few hours a day, a few days a week, and then retire to a nearby hotel to soak your liver in beer served from frosty mugs. It is quite another to spend your afternoons and evenings in Baghdad, confined to a room commensurate with your cover story, because you don't speak Arabic, wondering how soon you will be betrayed.

This is the cowardice factor. What good is it to earn big bucks if your life is put at risk? Patriotism? Forget about it. Torturing a man through a cinder block wall is the ultimate act of cowardice. The mere invention is a reflection of the complete moral and physical corruption of American society.

But America is also an intellectually corrupt country. Once the Central Intelligence Agency had discovered the Fountain of Death, it didn't know how to use it. The best idea they could come up with was to resurrect the protocols of the infamous Dr. Ewen Cameron, substituting the new technology for the low tech equipment he had employed.

Readers who are interested in the protocols of the deranged Dr. Cameron may consult John Marks' book, cited earlier. There have recently been several books published on the subject of Cameron, as well. This new interest resulted from survivors of his medical atrocities suing the CIA for compensation.

Among the books recently published, I would recommend Journey Into Madness by Clordon Thomas. The American edition came out in May, 1990.

A skeptic might also ask how it is possible to apply the Cameron brainwashing technique, called depatterning, to an American citizen in the privacy of his own home. This is in fact the \$64 dollar question, with no obvious answer to rational men and women.

Firstly, every effort is made to incarcerate the victim in a friendly hospital where his or her mind can be crushed at the leisure of the CIA- Failing this it is usually possible to at least get a false diagnosis from a corrupt physician that the victim has a potential psychiatric problem which may require institutionalization at some future date.

The effort to incarcerate the victim requires the cooperation of someone in the victim's family or work environment. The Central Intelligence Agency uses the term authority figure to describe this player, because he or she is an authority on the victim, and will step forward at the appropriate moment and demand that the victim be incarcerated or agree with the physician that the victim should be incarcerated.

Failing the presence of an authority, the victim may simply be kidnapped and placed in confinement, or the CIA may use unlawful restraint to hold the victim in confinement temporarily. It's not a pretty picture.

If all attempts at incarceration fail. or when the victim must be released, then the victim is

tortured in the privacy of his own home- This is possible because the effects are produced by electromagnetic radiation, which passes freely through seemingly solid walls

The brainwashing begins by picking victims who are isolated in the first place, preferably living alone, by soliciting the cooperation of the victims friends and acquaintances. In other societies these people wouldn't be called friends, they would be called informers.

The Central Intelligence Agency then attempts to isolate the individual from people whom they plan to corrupt — the victim's support network. This is done by making the victim difficult to be with. At the same time, every effort is made to make the victim suspicious of his friends and colleagues so he will avoid them of his own, free will.

To augment this process, members of the victims support network may simply be purchased to spread rumors concerning the victim, with the intention of further isolating him or her. This aspect of the process may be and is, carried to the extreme of simply murdering members of the victims support network.

The process of discrediting the victim, isolating the victim, is a continuous one, and isolating the victim from members of the opposite sex, particularly potential sex partners, is a central feature of this process.

This is the background. The foreground is the adaptation of the Cameron depatterning technique. The central feature of this is to use microwave auditory effects in place of the tapeplayer and headset which Cameron used in a part of the process called psychic driving.

The microwave auditory effects are used to humiliate and ridicule the victim, and to express the torturers contempt for the victim, which is also expressed through the application of copious amounts of pain.

Contempt is also expressed by breaking and entering the victims home and burglarizing it on a daily basis. The victim is allowed no privacy whatsoever His every action is commented on disparagingly. This is accomplished by bugging the victim's home with an array of devices, including video and sound sensors.

The quality of the bugging equipment available to the CIA today is beyond the imagination of the average man. These sensors have been miniaturized to the point where no visual inspection will ever discover them. And they are sensitive beyond belief The bugging devices themselves could be the subject of a separate paper.

## CONCLUSION

The Manchurian Candidate 1990 is quite a different fellow than his 1956 counterpart. He is no longer an hypnotically preprogrammed assassin; his behavior is programmed and fed into a computer, which biomechanically drives him to his predetermined and destructive destiny, just like the cruise missiles manufactured by General Electric Aerospace

When I pick up a copy of Biomedical Engineering, I am struck by the fact that all of the research in it is unnecessary, duplicates research accomplished five to 15 years ago by the Central Intelligence Agency. The difference between our research and theirs is that scientists employed by the CIA work on involuntary human subjects, slaves if you will, furnished to them by their employer. They do not have to be concerned with lethal thresholds.

The process which the microwave weapon employs is described in a paper titled, The Electromagnetic Spectrum in Low-Intensity Conflict, by Cap. Paul E. Tyler, Medical Command, United States Navy. His paper, presented at least a year after the murder which leaves no traces had already been perfected, sets forth the conceptual basis from which the development of the microwave beam weaponry began. It is worth reading.

Captain Tyler's paper was presented at a workshop conducted by Air University Center for Aerospace Doctrine, Research, and Education in March, 1984. His paper is included in a collection titled, Low-Intensity Conflict and Modern Technology, edited by Lt. Col. David J. Dean, United States Air Force, and published by Air University Press, Maxwell Air Force Base, Alabama in June, 1986. The book is available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

If there are skeptics among you, and I hope that there are, the benign results of the Central Intelligence Agency's research can be seen on television nearly every night. Take a film clip of George Herbert Walker Bush at the end of the Malta summit with President Gorbachev and compare it with a film clip of George Bush campaigning for the Republican nomination in 1988. The pitch of his voice has been significantly lowered, he speaks in complete sentences and no longer in sentence fragments, and his gestures are appropriate to the oratorical point he is making rather than empty and fluttery gesticulations.

I have no problem with the CIA's enhancing George Bush's public image. After all, he is former Director of Central Intelligence, and authorized experiments on involuntary human subjects with maser and microwave beam weapons in February, 1976.

I have more trouble with the use of this equipment to neutralize Michael Dukakis' campaign for President in 1988, by making his public image wooden and plodding.

I have even more trouble with the use of this equipment to bring Kitty Dukakis to the brink of suicide, in order to enhance the prospects of George Bush's choice of political

opponent in 1992 Jesse Jackson. Now that the Supreme Court has been neutralized as an instrument for social justice, neutralizing the Congress has become the Central Intelligence Agency's principal objective. A Jackson nomination is most likely to divide and crush the Democratic Party.

Think about what I have written. Perhaps it will help to explain classified work which is going on in a laboratory near you. Perhaps it will even help to explain work which you have been asked to do.

What do you know about research aimed at the computer control of human beings through masers aimed at acupuncture points, or muscle groups?

What do you know about the torture and rape and murder of persons of both sexes using masers and microwave beam weapons designed to be used in combat training and simulation systems?

What do you know about a magnetic beam weapon, meant to temporarily disable any device employing an electric motor, or transistors, without permanently damaging it?

What do you know about the development of a tactile intelligence exploitation system designed to maintain control of political activists as they travel, anywhere in the world?



If you have such information, have a few words with me before the end of the of Workshop, or speak out on this subject in a forum of your own choosing. The more who speak out, the less likely it is that any one of us will be victimized for what we say.

In any case, only the illusion of Constitutional government remains in the United States. Do not be afraid. The worst is yet to come.

## REFERENCES

1. This 54 page report went out of print in March, 1990. It is available at libraries which have been designated Government Document Depositories.
2. For a discussion of a similar weapon, see An X-Band Microwave Life-Detection System in IEEE Transactions on Biomedical Engineering, Vol 33, No. 7; July, 1986.
3. This information was leaked by a British scientist to a British investigator, and appears in City limits, London, Aug 9 - Aug 16, 1990. This weapon is described as a microwave pulse radar, and is believed to work by rapidly heating the brain.
4. Super-high frequency radiation is a term applied to wave lengths between a decimeter and centimeter long. It corresponds roughly with a frequency range of 1-100 gigahertz.
5. Controlled Offensive Behavior - USSR, by Captain John D. LaMothe, Medical Intelligence Office. Department of the Army. This intelligence document was published by the Defense Intelligence Agency in July, 1972.

## About the Author

Harlan E. Girard was born in Cleveland, OH in 1936. He studied for the B. Chem. E. degree at Cornell University, and received the B.A. degree in economics from The University of Michigan, Ann Arbor, from which he graduated in 1957.

Since 1988, Mr. Girard has been pursuing independent research into the harmful effects of radiation on biological systems. He is a member of the Bioelectromagnetics Society and IEEE Engineering in Medicine and Biology Society.

In 1989, the Federal Bureau of Investigation refused Mr. Girard access to his own file on the grounds that it is 93exempt from mandatory release on the basis of 5 U.S.C. a7522 (b) (1)94. This section of the United States Code is applicable to documents 93 to be kept secret in the interest of national defense or foreign policy.

Mr. Girard is flattered to have been made a peer of J. Robert Oppenheimer et al., despite the fact that he has never applied for a security clearance from the Department of Defense or held a job which required one. On the other hand, since 1983, he has been an involuntary human subject in medical experiments commissioned by the Central Intelligence Agency, which has of course made him privy to a great deal of highly classified and extremely sensitive information.

[Comment on Global Research Articles on our Facebook page](#)

[Become a Member of Global Research](#)

Articles by: [Harlan E. Girard](#)

**Disclaimer:** The contents of this article are of sole responsibility of the author(s). The Centre for Research on Globalization will not be responsible for any inaccurate or incorrect statement in this article. The Centre of Research on Globalization grants permission to cross-post Global Research articles on community internet sites as long the source and copyright are acknowledged together with a hyperlink to the original Global Research article. For publication of Global Research articles in print or other forms including commercial internet sites, contact: [publications@globalresearch.ca](mailto:publications@globalresearch.ca)

[www.globalresearch.ca](http://www.globalresearch.ca) contains copyrighted material the use of which has not always been specifically authorized by the copyright owner. We are making such material available to our readers under the provisions of "fair use" in an effort to advance a better understanding of political, economic and social issues. The material on this site is distributed without profit to those who have expressed a prior interest in receiving it for research and educational purposes. If you wish to use copyrighted material for purposes other than "fair use" you must request permission from the copyright owner.

For media inquiries: [publications@globalresearch.ca](mailto:publications@globalresearch.ca)