

# Welcome to America



## Microwave Surveillance Techniques in a Networked Environment

By Charles F. Harding III, Gainesville, Florida

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## ***In Whose Jurisdiction Does This Fall?***

For quite some time, my objective has been the exposition of the criminal misuse of Microwave Surveillance techniques by the Florida Public Service Commission. As a material witness, I will describe this technology and its effects on a human being, and I will provide a list of State of Florida employees who are cognizant about this activity.

I believe public demonstration of Microwave Surveillance is the most expeditious course of action: ([John Akwei v. NSA \(Case File 92-CV-449\)](#))

- (1) For broader understanding of Microwave Surveillance techniques and human effects, and
- (2) For that whole group of citizens whose appeals for assistance against criminal misuse have been summarily and irresponsibly denigrated.

Since December 13, 2006, this once-secret technology is now declassified. From ***“Bioeffects of Selected Nonlethal Weapons”*** ([PDF via Internet](#)) the following, disturbing extracts point toward the weapon/torture capability of Microwave Surveillance.

**Incapacitating Effect: Microwave Heating**

**Incapacitating Effect: Microwave Hearing**

**Incapacitating Effect: Disruption of Cortical Processing**


**Demonstration, please. An old adage states that “a picture is worth a thousand words.” In this case “a demonstration is worth a billion words.”**

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***In humans, EMFs in various frequencies have been found to adversely affect calcium binding at the cell surface, DNA synthesis, and cell division; to alter circadian rhythms, affect or alter some important enzyme activities, and affect specific glands like the pineal and the hypothalamus area of the brain as well as the production of certain neurotransmitters, like serotonin and dopamine; to increase the permeability of the blood-brain barrier; to create artificial stress responses; to over stimulate the immune system initially, then suppress it and decrease T-lymphocyte production; and to promote malignant tumor growth with particular concentrations in the central nervous system, in the blood and skeletal systems, and in glandular tissue. The eyes, the brain, and the testes seem to be especially prone to abnormal effects from the RF frequencies. ([Electromagnetic Fields: A Consumer’s Guide to the Issues and How to Protect Ourselves](#) by B. Blake Levitt, Harcourt Brace, 1995)***

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## ***Why Not Ask the United States Department of Justice for Help?***

U.S. Department of Justice Office of Justice Programs National Institute of Justice			
OCT 05	<b>NIJ</b>		
Solicitation for Concept Papers			
<b>Less Lethal Technologies</b>			
<div style="border: 2px solid red; border-radius: 50%; padding: 10px; text-align: center; color: red; font-weight: bold;">           Directed Energy-Based Weapons!         </div>			
<b>Notice:</b> You must submit your application electronically using Grants.gov. Go to <a href="http://www.grants.gov/funding/howto.htm">http://www.grants.gov/funding/howto.htm</a> for application instructions. For Grants.gov technical support, call 1-800-518-4726.		<b>Deadline:</b> <b>November 22, 2005</b> <b>8 p.m. eastern time</b>	
Catalog of Federal Domestic Assistance (CFDA) Number: 15.550 CFDA Title: National Institute of Justice Research, Evaluation, and Development Project Grants		SL 000728	

### II. Concept Paper Topics

NIJ seeks concept papers that describe the development of new, innovative devices that incapacitate individuals without risk of death or serious or permanent injury. NIJ is seeking devices that:

- Discretely incapacitate an individual (who may be in a crowd) at a distance.
- Compel near-instantaneous compliance at arms length.
- Compel one or more individuals to rapidly exit or not enter an area.

Proposed technologies should be safe and have predictable and reversible effects. Ideally, they will be lightweight, preferably handheld, require minimal training, and be rapidly deployable. Devices should be designed for use by the average criminal justice practitioner. Technologies proposed should also be easily maintained and should impose a minimal logistics burden. Technologies must be affordable by State and local law enforcement and corrections agencies.

**Possible Technical Approaches**  
 Solutions to meet the needs described in this solicitation might include but are not limited to:

- Chemically based devices.
- Directed energy based devices.
- Conductive energy devices.

Other technological concepts meeting the identified operational needs, or other needs, are encouraged, but applicants should clearly substantiate the law enforcement need for the technology and the expected benefit from application of the technology.


### III. General Requirements and Guidance

NIJ is asking you to submit a concept paper that captures the essence of a full proposal. The main difference between a concept paper and a proposal is that concept papers are much shorter and do not contain detailed budgets.

Your concept paper should state the problem under investigation (including goals and objectives of the proposed project) and the relevance of the project to public policy, practice, or theory. The narrative program section should state the research question and objectives and explain how the work will contribute to knowledge and practice. It should describe in sufficient detail the research methods and analytic strategy.

While the concept paper should not include a detailed budget or management plan, the program narrative should include a staffing plan and an estimate of the funding required, summarized by task, and a general timeframe for completion of those tasks and the project as a whole.

***In November 2005, the National Institute of Justice, the Information Gathering and Distribution arm of the U.S. Department of Justice issued these 'Requests for Proposal.' Pleas for assistance have generated no response.***

U.S. Department of Justice Office of Justice Programs National Institute of Justice			
OCT 05	<b>NIJ</b>		
Solicitation for Concept Papers			
<b>Sensor and Surveillance Technologies</b>			
<div style="border: 2px solid red; border-radius: 50%; padding: 10px; text-align: center; color: red; font-weight: bold;">           Through-the-Wall Surveillance!         </div>			
<b>Notice:</b> You must submit your application electronically using Grants.gov. Go to <a href="http://www.grants.gov/funding/howto.htm">http://www.grants.gov/funding/howto.htm</a> for application instructions. For Grants.gov technical support, call 1-800-518-4726.		<b>Deadline:</b> <b>November 17, 2005</b> <b>Extended to November 25, 2005</b> <b>8 p.m. eastern time</b>	
Catalog of Federal Domestic Assistance (CFDA) Number: 15.550 CFDA Title: National Institute of Justice Research, Evaluation, and Development Project Grants		SL 000715	

### Sensor and Surveillance Technologies

#### I. Introduction

The National Institute of Justice (NIJ) is the research, development, and evaluation agency of the U.S. Department of Justice and a component of the Office of Justice Programs (OJP). NIJ provides objective, independent, evidence-based knowledge and tools to enhance the administration of justice and public safety. NIJ supports research that can provide knowledge and tools to guide policy and practice.

NIJ is seeking concept papers for research and development of sensor or surveillance technologies, or novel applications of those technologies, to address specific needs in criminal justice. NIJ is particularly interested in three areas:

1. Concealed weapons detection (CWD) at a safe distance.
2. Through-the-wall surveillance (TWS) for locating and/or tracking individuals within buildings.
3. Other novel sensor or surveillance technologies, applications, or support functions for specific criminal justice applications.

Applicants should clearly identify in their application title and abstract the area for which they are applying (CWD, TWS, or novel).

**Due date:** The due date for this concept paper is November 17, 2005. Extensions to the deadlines are generally not granted.

**Page limit:** The program narrative section of your concept paper must not exceed 5 double-spaced pages in 12-point font with 1-inch margins. Abstract, table of contents, charts, figures, and appendices do not count toward the 5-page limit for the narrative section. (The program narrative section of full proposals, for applicants who will be invited to submit them, are usually limited to 25 to 30 pages.)

**Reasons for rejection:** NIJ may reject applications that are incomplete, do not respond to the scope of the solicitation, do not comply with format requirements, or are submitted after the deadline. No additions to the original submission are allowed.

**How to apply:** Detailed instructions for using Grants.gov to apply are available at <http://www.ojp.usdoj.gov/nij/funding/howto.htm>. For Grants.gov technical support, call 1-800-518-4726.

## ***Into the Court System***

- *Information can be readily compiled from public sources and the provisions of USCA, Title 18, Chapter 119 covering Electronic Surveillance allow government, through the authorization of a cognizant court, to utilize multiple avenues toward the assurance of an effective demonstration. ([John Akwei v. NSA \(Case File 92-CV-449\)](#))*
  - *The Tenth Judicial Circuit in Oregon has considered a comparable technology, FLIR or Forward Looking Infrared Radar. FLIR detects even the tiniest differences in temperature and enables its user to detect what is happening inside buildings, by more or less looking through the walls themselves.*
  - *The Tenth Circuit, however, has raised questions about the new technologies, including FLIR. The Court threw out a case in which agents had used FLIR to locate marijuana by detecting the heat of artificial lamps used to grow the plants.*
  - *“The government could always argue that an individual’s failure (or inability) to ward off the incursions of the latest scientific innovation forfeits the protection of the Fourth Amendment.”*
  - *“The government would allow the privacy of the home to hinge upon the outcome of a technological measure/counter-measure between the average citizen and the government, a race, we expect, that the people would surely lose.”*
  - *“To hold otherwise would leave the privacy of the home at the mercy of government’s ability to exploit technological advances.” ([John Akwei v. NSA \(Case File 92-CV-449\)](#))*
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## ***Criminal Misuse of Microwave Surveillance***

At the Florida Public Service Commission in Tallahassee, Florida, a Teleconferencing Station centering on a Microwave Transceiver and Parabolic Microwave Transmission Dish is used to create an uplink to a satellite with the beam targeted on a human head allowing Surveillance and Terrorism to be conducted. The returning, downlink, signal is demodulated allowing the sights and sounds of the targeted person’s environment to be presented on screen and recorded. Point the Transmission beam at a human head and watch the show.

As a material witness, I will describe this technology and its effects on a human being, and I will provide a list of State of Florida employees who are cognizant about this activity. The information which follows is drawn from government resources available via the Internet and personal experience.

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***Demonstration, please. An old adage states that “a picture is worth a thousand words.” In this case “a demonstration is worth a billion words.”***





- **The returning, downlink, signal is then demodulated allowing the sights and sounds of the targeted person's environment to be presented on television and recorded.**



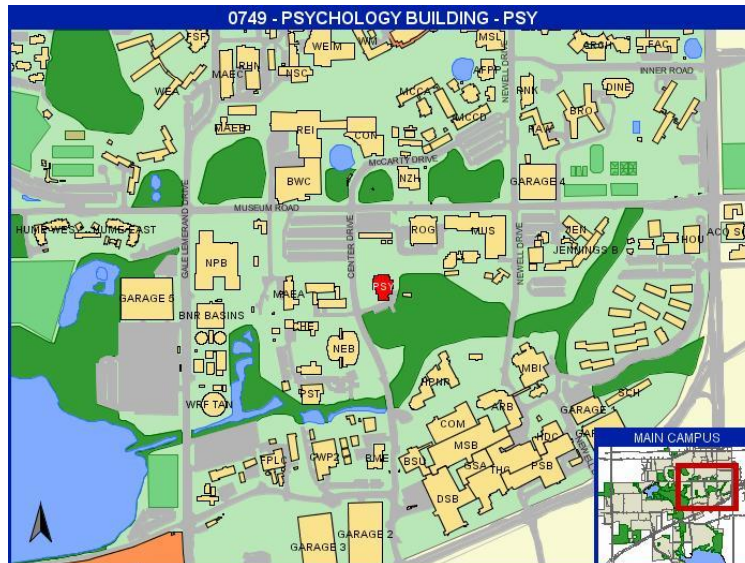
# What If?

Presented Before: Dr. Gregory J. Neimeyer, Ph.D., University of Florida

**Overview- DSM-5.1.1-** What if Psychologists and the Mental Health Community in general finally, after over a half century of denial, acknowledge the reality of **Microwave Auditory Effect**, **Microwave Surveillance**, and all the other technological developments which have derived from mankind's interface with the ever-evolving use of the **Electromagnetic Spectrum**.

Perhaps a public demonstration of **Microwave Surveillance** might be the most expeditious course of action.

Consider the location of the Psychology Department at the University of Florida (shown below, Psychology Building in red).

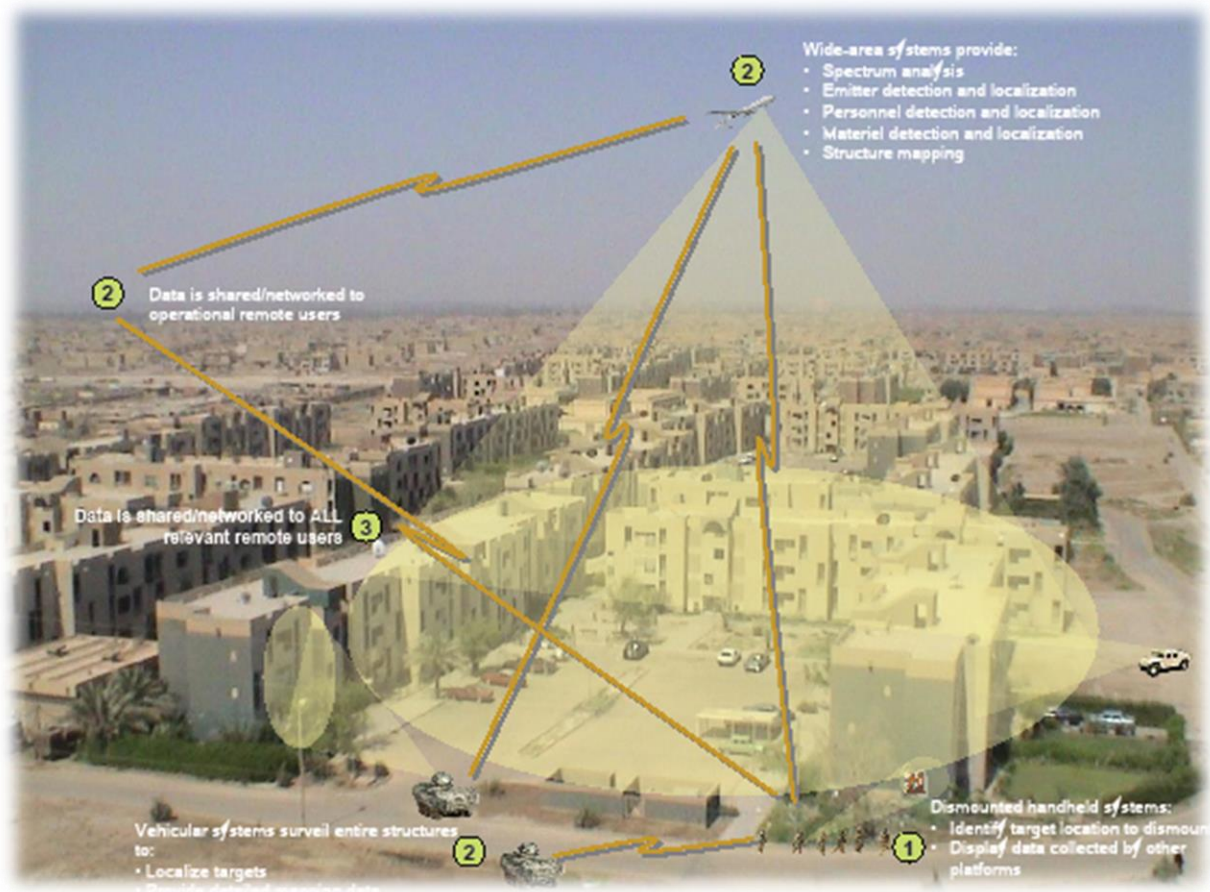


Surrounding this center of psychological learning and research, in an almost complete circle, are research centers where knowledge, understanding, and product development derived from the human interface with the Electromagnetic Spectrum are the focus of well-funded, dedicated human endeavor. Start with the McKnight Brain Institute, move through Shands Hospital, and complete the circle with a tour through the various facilities of the Engineering and Physics Departments.

The U.S. Commerce Department's *"Critical Technology Assessment of the Optoelectronics Industry, 1994"* (available through the University of Florida Science Library) identifies the University of Florida as a center of research in this area. The Larsen Electrical and Electronic Engineering Building is less than a football field distant from the Psychology Building.

**Considering how simple demonstration of this technology will be, how exciting is the prospect of an interdisciplinary review of Microwave Surveillance techniques?**

## Microwave Surveillance Techniques in a Networked Environment



Taken from: Evidence for the Lawsuit filed at the US courthouse in Washington, D.C.

John St. Clair Akwei vs. NSA Ft George G. Meade, MD

(Civil Action 92-0449)

- **NSA Signals Intelligence uses EMF Brain Stimulation for Remote Neural Monitoring (RNM) and Electronic Brain Link (EBL).**
- **EMF Brain Stimulation has been in development since the MKUltra program of the early 1950's, which included neurological research into "radiation" (non-ionizing EMF) and bioelectric research and development.**
- **The resulting secret technology is categorized at the National Security Archives as Radiation Intelligence, defined as "information from unintentionally emanated electromagnetic waves in the environment, not including radioactivity or nuclear detonation."**
- **The NSA has proprietary electronic equipment that analyzes electrical activity in humans from a distance.**

- *NSA computer-generated brain mapping can continuously monitor all the electrical activity in the brain.*
- *For electronic surveillance purposes, electrical activity in the speech center of the brain can be translated into the subject's verbal thoughts.*
- *Remote Neural Monitoring (RNM) can send encoded signals to the brain's auditory cortex thus allowing audio communication direct to the brain (bypassing the ears).*
- *NSA operatives can use this to covertly debilitate subjects by simulating auditory hallucinations characteristic of paranoid schizophrenia.*
- *Remote Neural Monitoring can map out electrical activity from the visual cortex of a subject's brain and show images from the subject's brain on a video monitor without any contact with the subject.*
- *NSA operatives see what the surveillance subject's eyes are seeing. Visual memory can also be seen. RNM can send images direct to the visual cortex, bypassing the eyes and optic nerves.*
- *NSA operatives can use this to surreptitiously put images in a surveillance subject's brain while they are in R.E.M. sleep for brain-programming purposes.*
- *Neuronal activity in the brain creates a shifting electrical pattern with a correspondingly shifting magnetic flux. This magnetic flux puts out a constant 30-50 hz, .5-milliwatt electromagnetic (EMF) wave.*
- *Contained in the electromagnetic emission from the brain are spikes and patterns called "evoked potentials."*
- *NSA Signals Intelligence can remotely detect, identify and monitor a person's bioelectric fields.*
- *The NSA's Signals Intelligence has the proprietary ability to remotely and non-invasively monitor information in the human brain digitally decoding the "evoked potentials" in the 30-50 hz, .5 milliwatt electro-magnetic emissions from the brain.*
- *Every thought, reaction, motor command, auditory event, and visual image in the brain has a corresponding "evoked potential" or set of "evoked potentials."*
- *The EMF emission from the brain can be decoded into the current thoughts, images and sounds in the subject's brain.*
- *EMF Brain Stimulation works by sending a complexly coded and pulsed electromagnetic signal to trigger "evoked potentials" (events) in the brain forming sound and visual images in the brain's neural circuits.*
- *EMF Brain Stimulation can also change a person's brain states and affect motor control.*
- *Two-way Electronic Brain-Link is done by remotely monitoring neural audio-visual information while:*

*(1) Transmitting sound to the auditory cortex bypassing the ears and . . .*

***(2) Transmitting faint images to the visual cortex***

***(a) Bypassing the optic nerves and eyes***

***(b) The images appear as floating 2-D screens in the brain.***

- ***Remote Neural Monitoring (RNM), which remotely monitors bioelectric information in the human brain, has become the ultimate surveillance system. It is used by a limited number of agents in the U.S. Intelligence Community.***
- ***Two-Way Electronic Brain Link has become the ultimate communications system for CIA and NSA personnel.***
- ***Remote Neural Monitoring (RNM) requires decoding the resonance frequency of each specific brain area, varying from 3 Hz to 50 Hz. That frequency is then modulated in order to impose information in that specific brain area.***
- ***Only NSA Signals Intelligence modulates signals in this frequency band.***
- ***Examples of EMF Brain Stimulation:***
- ***Brain Area affected by Bioelectric Resonance Frequency Information Induced Through Modulation***

***(1) Brain Area- Visual Cortex- 25 HZ***

***Images in the brain, bypassing the eyes***

***(2) Brain Area- Auditory Cortex- 15 HZ***

***Sound which bypasses the ears***

***(3) Brain Area- Motor Control Cortex- 10 HZ***

***Motor Impulse Co-ordination***

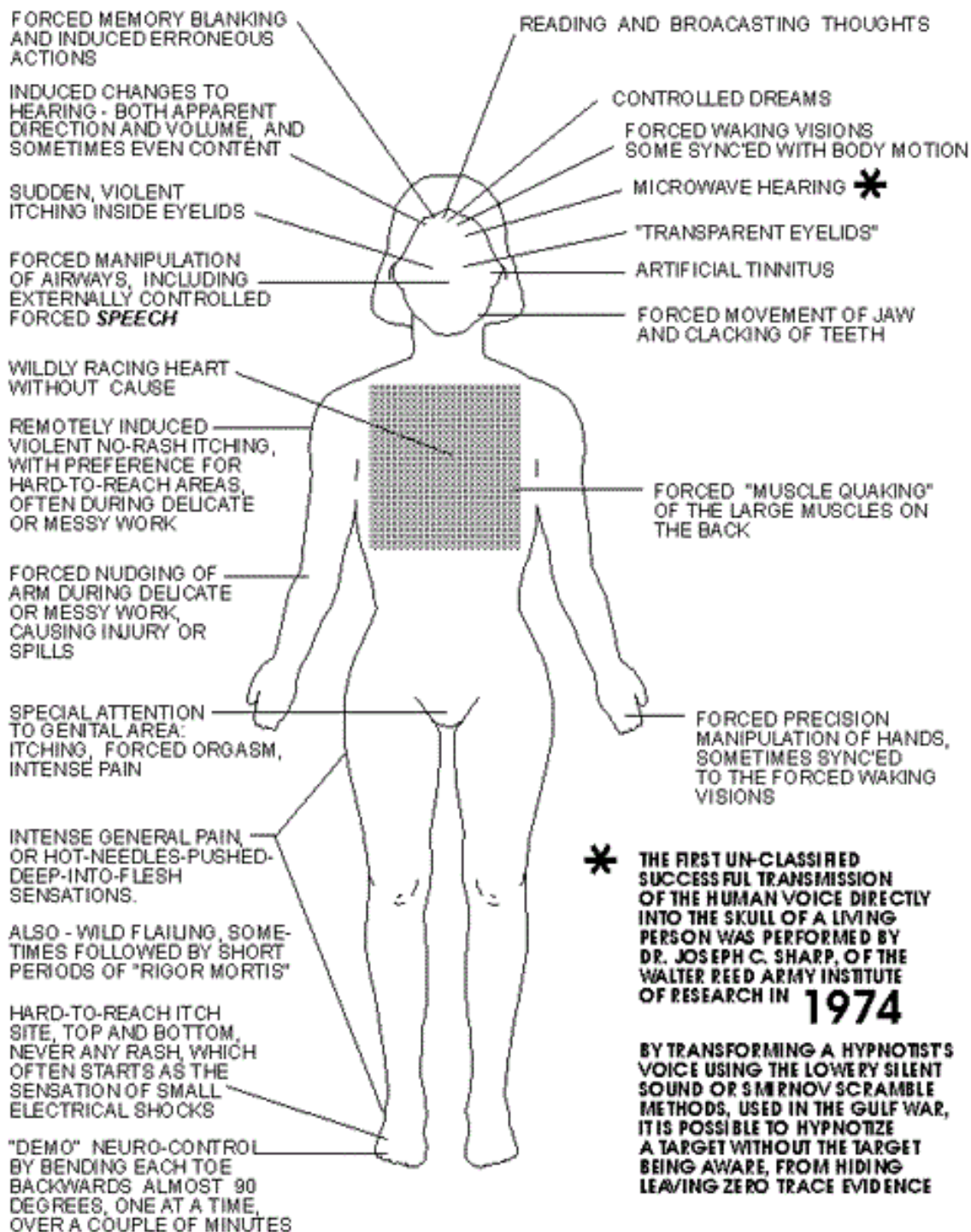
***(4) Brain Area- Somatosensory Cortex- 09 HZ***

***Phantom Touch Sense***

***(5) Brain Area- Thought Center- 20 HZ***

***Imposed Subconscious Thoughts***

- ***This modulated information can be put into the brain at varying intensities from subliminal to perceptible.***
- ***Each person's brain has a unique set of bioelectric resonance/entrainment frequencies.***
- ***Sending audio information to a person's brain at the frequency of another person's auditory cortex would result in that audio information not being perceived.***



GENERAL EFFECTS: SUDDEN OVERHEATING, ALL-BODY PAIN, FORCED "CAFFEINE FIELD" SLEEP PREVENTION, FORCED "DROP-IN-YOUR-TRACKS" SLEEP INDUCEMENT, IRRESISTIBLE "GO HERE, GO THERE" COMMANDS, MICROWAVE BURNS, ELECTRIC SHOCKS

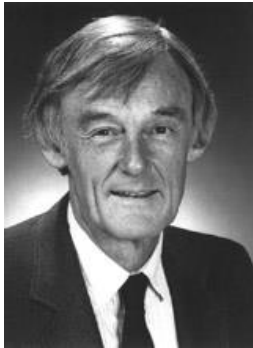
INVOLUNTARY TEST SUBJECTS ALSO EXPERIENCE: FREQUENT BREAK-AND-ENTERS AT HOME AND AT WORK WITH CLOTHING AND FURNITURE, BUSINESS PAPERS, COMPUTER FILES SABOTAGED MODIFIED OR STOLEN. PSYCHOLOGICAL WARFARE RESEARCH IS THE LIKELY MOTIVE.

## PSYCHO-ELECTRONIC WEAPON EFFECTS

[www.raven1.net](http://www.raven1.net)

# *Why Psychiatrists and Psychologists Are Afraid?*

*Except for these two ex-DOC'S- They Are Being Asked to Help Expose Criminal Activity in Government*



**William Ross Adey, M.D**

[W. Ross Adey](#) (1922-2004) died on May 20<sup>th</sup>, 2004 at the age of 82 after a long battle against a series of bronchial infections.

Adey, a medical doctor, is perhaps best known for discovering the first non-thermal effect of electromagnetic radiation during the 1970's: he showed how ELF-modulated RF signals can lead to the release of calcium ions from cells.

While at the Brain Research Institute at the University of California, Los Angeles, he worked with the Department of Defense on Project Pandora, the super-secret program that sought a way to use electromagnetic radiation for mind control. In the late 1970's, Adey set up a new lab at the VA Hospital in Loma Linda, CA, where he carried out studies on the role of power frequency EMFs in the promotion of cancer and, later, on the potential cancer risks following exposure to cell phone radiation.

As the chair of a committee of the [National Council on Radiation Protection and Measurements \(NCRP\)](#) investigating ELF health effects, Adey made waves by recommending strong action to curb public exposures. He endorsed a 2 mg exposure standard for 50/60 Hz EMFs (see [MWN, J/A95](#), p.1). This was too radical for the NCRP leadership and today, over ten years later, the council continues to refuse to release his report.

***"Researchers have been shafted," says Ross Adey, a University of California at Riverside neurologist and longtime contract researcher for Motorola who is regarded as one of the field's best. "The industry has fostered the view that phones have been proven safe with no evidence to back it up. I'm frustrated with the power of money to manipulate the research and government regulators."***

Meanwhile, at Motorola's strategic-issues department, director Norm Sandler requests that we all please relax. *"At the power levels and frequencies of existing cellular phones, there is no established evidence of any biological effects, much less any health effects."*

***Adey: "That is simply not true. Over and over, cell-phone fields have produced effects. Industry is lying and lying and lying."***



**Dr. Don R. Justesen, M.D.**

**Dr. Don R. Justesen (1930 – 2014)**, 84, passed peacefully at the Veterans Home in Warrensburg, MO., on Sunday, November 9th, 2014. Don suffered a number of years from complications of Alzheimer's disease. He was surrounded by loving family members. Don is survived by his wife of 56 years, Patricia Ann; children, Rick Justesen, Joni Gosselin, Tracy Winsor and Tony Justesen; grandchildren, Erick, Robby, Sabrina, Chaz, Chase, Alec, Cassidy, Mara and Reid.

In the 1960's, Don received a commission in the USNR as LTJG and was promoted to LT while doing research work in collaboration with Walter- Reed Army Medical Center. His Ph.D. research involved neuro studies on animals, electrical stimulation, and the functional neuroanatomy of the vertebrate brain. **His dissertation explored behavioral effects of intense microwave irradiation.** Don chaired the Psychology department at Westminster College in Salt Lake City from 1959 to 1962.

He moved his family to the Kansas City, MO area when he became employed as Director of Neuropsychology and Behavioral Radiology Research Laboratories with the Veterans Administration Medical Center. He held this position until his retirement in 1995. Don was also a professor of neuropsychology at the University of Kansas School of Medicine for many years.

He was elected as president of the **Bioelectrical Magnetic Society (BEMS)** and later served as editor-in-chief of **bioelectromagnetics**. Don was multiply published with a number of scientific papers credited to his name throughout his career. He was a member of MENSA International (High IQ Society). Don was greatly admired among his colleagues for his wit, intellect and benevolent nature. He was affectionately known by his colleagues as "*Professor*" or "*Justy*".

**On August 21, 1974**, Dr. Don R. Justesen, Laboratories of Experimental Neuropsychology, Veterans Administration Hospital, Kansas City, Missouri, presented in a seminar to the faculties of Psychology and Engineering at the University of Utah (Salt Lake City, Utah) "**Microwaves and Behavior**," (published in The American Psychologist (Volume 30, March 1975, Number 3)).

To "hear" microwave energy, it must first be modulated so that it impinges upon the "*listener*" as a pulse or a series of pulses of high amplitude. At first spurned by most microwave investigators in the United States, the radio- frequency hearing, or Frey effect, was repeatedly dismissed as an artifact until behavioral sensitivity to low densities of microwave energy was demonstrated in rats in an exquisitely controlled study by Nancy King (see King, Justesen, & Clarke, 1971). Shortly after the completion of the study and its informal dissemination via the invisible college, the skeptics began to appear in appropriately equipped microwave laboratories in the United States with requests to "*listen to the microwaves*." A majority was able to "*hear*" the pulsed microwave energy, thereby belatedly confirming the claims made by Frey for nearly a decade. <sup>1</sup>

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<sup>1</sup>*There is irony here worthy of parenthetical comment. Consider that subspecies of human being, the experimental psychologist, who distrusts introspective data so thoroughly that a proposition based on them is considered highly suspect until corroborating data are observed in lower animals. The irony in the present case is that the demonstration of behavioral sensitivity to microwaves by a dumb animal does not imply that the animal is having an auditory "experience." I was dubious about the Frey Effect until I saw rats react to low densities of pulsed radiation; this conversion occurred despite my being one of the sizable minority that cannot hear microwaves under direct radiation. The other side of the coin of paradox is exemplified by a colleague, a confirmed cynic, who, while being irradiated in my presence, said, "Well, I can hear the <censored> microwaves, but I still don't believe it!"*

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Dr. Justesen shares: "One of the American pioneers of microwave research was Allan Frey (see, e.g., Frey, 1961, 1965; Frey & Messenger, 1973), a free-lance biophysicist and engineering psychologist. Frey's major accomplishment was discovery or at least confirmation and dissemination that . . .

***"Human beings can 'hear' microwave energy."***

## ***"The Lie Detector That Scans Your Brain,"***

***New York Times December 9, 2001, by Clive Thompson.***

- ***John Norseen, a scientist with Lockheed Martin, is often able to discern when subjects are thinking of particular numbers.***
- ***"He predicts that by 2005, brain mappers will be able to automatically scan the skulls of everyone going through airports to search for potential hijackers."***

## ***“NASA Plans to Read Terrorist's Minds at Airport,”***

*by Frank J. Murray, The Washington Times, August 17, 2002.*

- *“Space technology would be adapted to receive and analyze brain-wave and heartbeat patterns, then feed that data into computerized programs 'to detect passengers who potentially might pose a threat . . .”*
- *“NASA wants to use 'noninvasive neuro-electric sensors,' imbedded in gates, to collect tiny electric signals that all brains and hearts transmit.”*

## ***“NASA Plans to Read Terrorist's Minds at Airport,”***

*by Frank J. Murray, The Washington Times, August 17, 2002.*

- *“Computers would apply statistical algorithms to correlate physiologic patterns with computerized data on travel routines, criminal background and credit information from 'hundreds to thousands of data sources,' NASA documents say. ”*

# U.S. Embassy in Cuba- Attack Summary

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## *U.S. and Canadian Embassy Personnel Assaulted in Cuba*

It's a mystery out of a John le Carré novel: For the past several months, U.S. diplomats in Cuba have suffered unexplainable symptoms, from hearing loss and vertigo to nausea and concussions. Some say they're struggling to concentrate and recall even common words. (8)

Equally strange: While some victims said they felt vibrations or heard loud noises audible only in parts of a room, others experienced nothing. (8)

So far, 21 Americans have reported symptoms, and Canadian diplomats are suffering as well. It's gotten so bad that the United States decided this week to yank all nonessential personnel from its Havana embassy. Americans are being warned against visiting the country for their own safety until investigators can figure out what's going on. What *is* going on? (8)

For two years, diplomats posted to Cuba have been suffering a mysterious illness. (9)

They say they have heard painful, high-pitched noises and lost their hearing. *"Some were asleep and awakened by the sound, even as others sleeping in the same bed or room heard nothing,"* the Associated Press reported. Scores have reported headaches, dizziness, nausea and difficulty concentrating. (9)

Douglas Smith, director of the Center for Brain Injury and Repair at the University of Pennsylvania's Perelman School of Medicine, evaluated 24 affected Americans. He said his patients looked *"exactly like the patients we would see in a concussion clinic,"* according to the CBC. (9)

His team has found *"perceptible changes in [the] brains"* of the victims, including changes to the *"white matter tracts that let different parts of the brain communicate."* But none reported blows to the head. (9)

Many of the victims reported trouble processing information. Some said they could not remember things anymore and struggled to come up with the right words when writing or speaking. (9)

The symptoms have struck 24 Americans and 10 Canadians, including some minors. So far, investigators have not found their cause. (9)

Initially, investigators suspected some kind of sonic attack. But they found little evidence of that. And scientists say acoustic waves have never been shown to alter the way the brain works. There has been suspicion that the ailment is something like a mass hysteria. But doctors say the changes to the brain that they see rule that out. They suspect it is a medical condition, though environmental assessments have yielded few clues. (9)

Former secretary of state Rex Tillerson has suggested that the symptoms were the result of “targeted attacks.” But he could not say who was behind them. Neither could an investigation by the FBI. Cuban officials have denied any involvement in the ailments and have cooperated with investigators. (9)

### ***Okay. So, maybe it's an electromagnetic device? (8)***

#### ***Maybe!***

The case for: Electromagnetic waves can be easily directed, like a laser. They can also travel through walls and could plausibly be concealed from afar. (In the 1960s, the Soviet Union bombarded the U.S. Embassy in Moscow with microwaves; it's not clear why or whether that had any impact.) Electromagnetic pulses, when sent out in short, intense blasts, can also cause people to “hear” clicking sounds. (8)

Harnessing neuroscience to military capability, this technology is the result of decades of research and experimentation, most particularly in the Soviet Union and the United States. (Welsh, 1997, 2000) We have failed to comprehend that the result of the technology that originated in the years of the arms race between the Soviet Union and the West, has resulted in using satellite technology not only for surveillance and communication systems but also to lock on to human beings. (11)

Most complainants allege public sector involvement or sub-contracted private companies. Remote behavioral influence research has long been funded by the US, with evidence of development and weapons, though denying on national security grounds project results and foreign literature analyses. Some thirty countries evidence active behavioral influence weapon research. (11)

Though there is some scant psychoanalytical acknowledgement, current medical awareness ensures effective neutralization of the afflicted. Those affected with ‘hearing voices’, or the perception of remote manipulation are stigmatized. (11)

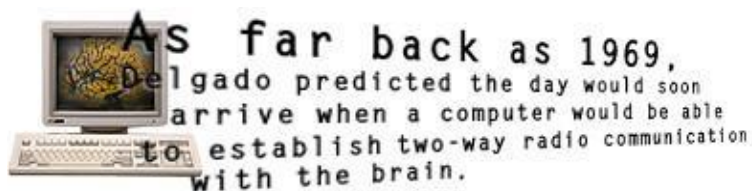
The medical community has long heard either identical or similar complaint to that above delineated as known internal voice technology from numerous victims. In addition, microwave bioeffects have considerable congruence with reported symptoms of major psychosis other than ‘voices.’ All of society should be disturbed at the prospect of technologic induction of voice, since the unaware subject would perceive such voices as his own natural thought, without such an assault as to provoke complaint. (11)

The interpretive thrust of the eastern Europeans' studies of animals and of case histories of human beings employed near industrial or military sources of radio-frequency energy is that chronic exposure to microwave radiations results in a **neurasthenic syndrome**. Headache, fatigue, weakness, dizziness, moodiness, and nocturnal insomnia are typically reported symptoms (cf. Marha, 1970; Tolgskava & Gordon, 1973). (10)

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In 1969 Dr. Jose Delgado, a Yale psychologist, published a book: *“Physical Control of the Mind: Towards a Psychocivilized Society.”* He displayed in practical demonstrations how, by means of electrical stimulation of the brain which had been mapped out in its relations between different points and activities, functions and sensations, – by means of electrical stimulation, how **the rhythm of breathing and heartbeat could be changed**, as well as the function of most of the viscera, and gall bladder secretion. Frowning, opening and closing of eyes and mouth, chewing, yawning, sleep, dizziness, epileptic seizures in healthy persons were induced. The intensity of feelings could be controlled by turning the knob, which controlled the intensity of the electric current. He states at the end of his book the hope that the new power will remain limited to scientists or some charitable elite for the benefit of a *“psychocivilised society.”* (11)

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an event that first occurred in 1974.

Lawrence Pinneo, a neurophysiologist and electronic engineer working for Stanford Research Institute (a leading military contractor), developed a computer system capable of reading a person's mind. (13)

(12) *“Physical Control of the Mind: Towards a Psychocivilized Society,”* Delgado, Jose M.R: 1969, Vol. 41, *World Perspectives*, Harper Row, N.Y.

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The most documented citizen microwave irradiation was of peace protesters at Greenham Common American Air Force Base in Berkshire England, which prompted investigation of unusual symptoms. Radiation measurements exhibited microwaves with symptom experience up to a hundred times the background level and rose sharply on protests nearer the base. *Symptoms became pronounced on cruise missile transport, a protest focus. Recorded were wide ranging complaints: skin burns; ‘severe’ headaches; drowsiness; temporary paralysis; uncoordinated speech; two late (5 mos.) spontaneous abortions; an apparent circulatory failure; and unlike usual menstrual synchronization, irregular or postmenopausal menstruation. The symptom complex fits well with electromagnetic exposure syndrome It has also been reported that some of the women ‘heard voices.’ The base closed finally in 1991.* (11)

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Many American servicemen and technicians who worked in proximity to radar and other radio-frequency devices were examined by physicians. What triggered a renewed out-pouring of support for research on microwaves, once again spearheaded by the Department of Defense, was described by **Jack Anderson (1972)** in his syndicated column in the Washington Post. (10)

Reading like the scenario of a novel by Ian Fleming, the column related how the U.S. Embassy in Moscow had been bugged clandestinely for several years by the Soviets, who had presented Ambassador Averell Harriman in 1945 with a handsomely carved Great Seal of the United States. An electronic bug was in the seal, and the seal was in a room where privy conversations among U.S. officials were supposed to take place. These conversations were actually overheard by the Soviets over the next seven years; however, a check by U.S. security experts in 1952 revealed the bug and subsequently brought forth additional experts who made periodic inspections for presence of other electronic eavesdropping devices. During one such sweep in Moscow in the early 1960s, it was discovered that the Soviets were directing, beams of microwave energy at the U.S. Embassy. (10)

American intelligence agents were understandably curious, but they did not want their Soviet counterparts to know that the microwave bombardment had been detected. Enter the Advanced Research Projects Agency (ARPA), an arm of the Executive Office that specializes in getting fast answers to far-out questions that may bear on national security. Agents for ARPA contacted Joseph C. Sharp, former director of research in experimental psychology at the Walter Reed Army Institute of Research, and an electronic engineer Mark Grove, who began to put together at Walter Reed what is now one of the best equipped laboratories in the United States for studying, biopsychological effects of microwave radiations. (10)

Additional behavioral, engineering, and medical scientists throughout the United States were also brought into the investigation effort through research contracts. By the early 1970s, ARPA's support of microwave research had largely faded, ostensibly because of the enactment of the **Mansfield Amendment**. The fiscal slack has since been picked up by the three military services, by the Bureau of Radiological Health of the Food and Drug Administration, and by the Environmental Protection Agency. (10)

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Jack Anderson suggested that the Soviets may have been trying to induce a **neurasthenic syndrome** in American embassy officials. It should be noted that Soviet officials voiced suspicions that minions of Bobby Fischer may have bombarded Boris Spassky with microwaves, thereby causing the latter to lose his championship in their famous chess match (Wade, 1972). Recently reported investigations by Soviet scientists (see Czerski, 1974) have convinced me of the sincerity of their belief in the neurasthenic syndrome. (10)

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Jack Anderson mentioned that the subject of the microwave bombardment of the U.S. Embassy in Moscow was on the agenda when President Lyndon Johnson met Soviet Premier Aleksei Kosygin at the Glassboro Summit Meeting in June 1967. One informant told Anderson that Johnson personally requested Kosygin to order a halt to the radiation of the Embassy. (10)

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***Moscow Station***- Three separate writers sharing different perspectives about the use of Microwave Surveillance techniques at the same location, the U.S. Embassy in Moscow. These are passages taken from the non-fictional work, Master of Disguise- My Secret Life in the CIA, written by Mr. Antonio J. Mendez (William Morrow and Company, 1999).

Americans from the ambassador to the lowest-ranking Marine security guard, were subject to audio surveillance during every moment they spent in the U.S. Mission, including their apartments. Because American officials in many embassies needed a secure area to discuss sensitive cases, they usually went to the “Bubble”- the generic term for a clear plastic-walled enclosure, raised from the floor on transparent Plexiglass blocks and meticulously cleaned only by American hands, so that none of the local staff could attach miniature listening devices to the structure without being detected.

*“They’ve got some new kind of “ghost” surveillance.” One officer whispered to me, even though we were in the secure confines of the Bubble. “They’re flaunting it too, Tony, which has everybody demoralized. They couldn’t keep shutting us down like this unless they had some kind of unseen advantage.”*

Mr. Mendez wrote his book in 1999 but fails to mention the reason that Soviet surveillance was so successful, **Microwave Surveillance**. This information is discussed in the following works published over a decade earlier.

The following excerpt is taken from Warriors of the Night by Mr. Ernest Volkman (William Morrow and Company, 1985, Chapter Four- “*National Technical Means*”, pp. 162-163).

- Gamma Guppy, an NSA operation in 1971 managed to eavesdrop, from a listening post inside the U.S. Embassy in Moscow, on the two-way conversations exchanged between Soviet government officials riding in their limousines to work each morning. The eavesdropping, which produced a worthless pile of trivia, backfired when the Russians found out about it- they beamed strong microwaves to balk the eavesdropping, causing some Americans to become **deathly ill**.

A separate discussion of the microwave assault upon the U.S. Embassy in Moscow follows, as written by Mr. Ronald Kessler in Moscow Station (MacMillan Publishing Company, Chapter 2, pp.26-27).

- With the Americans in their new home, the Soviets began a different kind of penetration- **microwave bombardment**.
- At first the microwaves came from a Soviet apartment house to the west of the embassy. Later they came from the roof of an apartment house to the east and, also, from an office building to the south.

- U.S. intelligence agencies later realized they could be used as well to track the movement of CIA personnel within the embassy and to trigger false alarms to harass, wear down, and confuse the Marines at night.

***Malcolm Toon, the director of the State Department's Soviet desk in the 1960's, suggested to Dean Rusk, then Secretary of State, that they tell the embassy employees about the microwaves.***

- Toon felt they should decide for themselves if they wished to continue to live there. Rusk told Toon to check with the Ambassador, Llewelyn Thompson.
- Thompson said telling the employees would mean the embassy would have to complain to the Soviets about the bombardment. He did not want to ruffle their feathers over something as minor as the health of American workers.

***"He was reluctant to do it." Toon said. "He felt it might be an abrasive element in our relations with Moscow. So, I lost the battle."***

When Walter J. Stoessel, Jr., became ambassador, the Americans finally complained about the microwaves. The State Department commissioned a special study by Johns Hopkins University. The study concluded that the level of radiation over the years had been well below the levels considered safe by the Environmental Protection Agency.

Although the Soviets turned off the radiation temporarily, they soon resumed the bombardment. Toon, who became ambassador after the controversy erupted in February 1976, kept a cartoon from the Fort Worth Star-Telegram in his den showing the American ambassador having dinner.

- ***"I've got good news and bad news. The good news is that they've turned off the radiation. The bad news is that I had the roast in the window."***

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***Moscow Station- Electronarcosis (1902)***- Three separate writers sharing different perspectives about the use of Microwave Surveillance techniques at the same location, the U.S. Embassy in Moscow. These statements contain contradictory elements concerning the severity of **Electronarcosis (1902)** symptoms experienced by exposed embassy personnel.

One Statement has employees becoming deathly ill. This contrasts with the Johns Hopkins Applied Physics Lab conclusion that the bombardment by microwave radiation had never exceeded levels considered safe by the Environmental Protection Agency.

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***Microwave Use Against Humans-*** *The microwave irradiation of the American Embassy in Moscow received little publicity until the winter of 1976 installation of protective screening, but irradiation was known since 1953. Original frequencies were 2.56-4.1 GHz with*

*additional intermittent 0.6-9.5 GHz signals being permanent by 1975 in a wide band frequency hopping consistent pattern with one signal pulsating. The irradiation was directional from nearby buildings and modulated. Complaint to the Soviets had no avail, but the signals disappeared in January 1979 "reportedly as a result of a fire in one or more of the buildings." A 9-11 GHz signal recurred in 1988. Observed frequencies are basically within the microwave hearing spectrum, and pulsation is required. Psychiatric cases occurred during the exposure period, though no epidemiologic relationship was revealed with fully a quarter of the medical records unavailable, and comparison with other Soviet Bloc posts. The CIA had Dr. Milton Zaret review medical Soviet microwave literature to determine the purpose of the irradiation. He concluded the Russians "believed the beam would modify the behavior of the personnel." **In 1976 the post was declared unhealthful and pay raised 20%.***

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**Microwave Hearing-** On August 21, 1974, Dr. Don R. Justesen, Laboratories of Experimental Neuropsychology, Veterans Administration Hospital, Kansas City, Missouri, presented in a seminar to the faculties of Psychology and Engineering at the University of Utah (Salt Lake City, Utah) "*Microwaves and Behavior*," (published in The American Psychologist (Volume 30, March 1975, Number 3)).

An excerpt follows: "*I was dubious about (Microwave Hearing) until I saw rats react to low densities of pulsed radiation. The other side of the coin of paradox is exemplified by a colleague, a confirmed cynic, who, while being irradiated in my presence, said: "Well, I can hear the <censored> microwaves, but I still don't believe it!" (Don R. Justesen, VA, Kansas City, MO)*

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**The first American to publish on the microwave hearing effect was Allan H. Frey in 1962, yet radar technicians had anecdotes of microwave perception in World War II.** Deaf and normal subjects, even with earplugs, can hear appropriately pulsed microwaves at least up to thousands of feet from the transmitter. Transmitter parameters above those producing the effect result in a severe buffeting of the head with dizziness and nausea, while parameters below the effect induce a pins and needles sensation. Peak power is the major determinant of loudness, though there is some dependence on pulse width. Pulse modulation appears to influence pitch and timbre. The effect "is the most easily and reliably replicated of low power density (microwave) illumination." Review of human and animal microwave hearing confirmation by independent investigators of the effect establishes validity. Designs for scaring birds away from aircraft or other hazards by microwave hearing and induction of vertigo exist.

**While working for the Advanced Research Projects Agency at Walter Reed Army Institute of Research, Sharp and Grove discovered "receiverless" and "wireless" voice transmission.** Their method was simple: the negative deflections of voiceprints from recorded spoken numbers were caused to trigger microwave pulses. Upon illumination by such verbally modulated energy, the words were understood remotely.

**A Defense Intelligence Agency review of Communist literature affirmed microwave sound and indicated voice transmission.** The report states, *"Sounds and possibly even words which appear to be originating intracranially (within the head) can be induced by signal modulation at very low average power densities."* Among microwave weapon implications are *"great potential for development into a system for disorientating or disrupting the behavior patterns of military or diplomatic personnel."* **An Army Mobility Equipment Research and Development Command report affirms microwave speech transmission with applications of "camouflage, decoy, and deception operations."** *"One decoy and deception concept presently being considered is to remotely create noise in the heads of personnel by exposing them to low power, pulsed microwaves . . . By proper choice of pulse characteristics, intelligible speech may be created"* quotes the report.

**The Brunkan Patent # 4877027 "Hearing system" is a device capable of verbal microwave hearing.** The invention converts speech for remote introduction into the head by parabolic antenna with indication of direct microwave influence on neural activity. **The microwave spectrum granted is broad: 100-10,000 MHz (0.1-10 GHz.)** Pulse characteristics are essential to perception. Bursts of narrowly grouped, evenly spaced pulses determine sound intensity by their amount per unit time. Although a wide spectrum is patented, with ranges of pulse and burst duration, preferred operation has burst duration at 2 microseconds, and pulse duration at 100 nanoseconds.

Operation is at 1000 MHz, which is the frequency of optimal tissue penetration. Another patent application based on microwave bursts is *"designed in such a way that the burst frequencies are at least virtually equal to the sound frequencies of the sounds picked up by the microphone,"* though the transducer here is not remote.

**Stocklin Patent # 4858612 "Hearing device" affirms the microwave hearing effect.** Stocklin gives exposition to the concept that a microwave component is part of neurophysiology and electroencephalogram (EEG) potentials. Microwaves are considered both emitted and absorbed by nerve cell membrane proteins. Microwaves generally excite the brain perhaps by influencing calcium, a central ion in nerve firing.

Stocklin represents the auditory cortex as normally producing microwave energy, which the device simulates, thus eliciting sound sensation. Each acoustic tone is weighted for several microwave frequencies by a formula called the mode matrix, which is used to calculate best perception requirements. Observation of EEG desynchronization, delta waves, and brain wave amplitudes helps calibrate the device. The lowest frequency for hearing is estimated by the cephalic index. Microwave speech transmission in this patent is unremote with the antenna over and sized for the auditory cortex. Other patents have non-remote transducers of radiowave elicited hearing.

Descriptions in the above patents attribute microwave hearing to direct neural influence. However, the most accepted mechanism in review is by thermoelastic expansion,

most likely inducing bone conducted hearing. The cochlea does appear to be involved, but not the middle ear. This divergence of mechanism illustrates the non-thermal/thermal controversy. *US exposure standards are based on thermal effects, yet there are effects very difficult to explain by thermodynamics.* All accept thermal effects at some level, yet the thermal only school is rather dogmatic related to liability issues of commercial and national security concern. It must be said that the open literature regarding microwave hearing indicates a thermo-acoustic mechanism.

***“Communicating Via the Microwave Auditory Effect.”*** is the title of a small business contract for the Department of Defense. Communication initial results are: *“The feasibility of the concept has been established”* using both low and high-power systems. A Freedom of Information Act (FOIA) request as to the project’s outcome met with denial on the part of the Air Force, on the grounds that disclosure *“could reasonably be expected to cause damage to national security.”* (Robert Becker)

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***Target Tracking Technology-*** The maintenance of effects on people requires obstacle penetration and target tracking. These internal voice capable energy forms penetrate obstruction and can be localized. Sound transmission through enclosures is commonly experienced. An inaudible ultrasound high intensity carrier wave is unnoticed. Solid defect inspection is one use of ultrasound, which is being developed to discern movement through walls. Common technology utilizes the microwave hearing spectrum, which partly or completely encompasses cell phone, TV, and radar frequencies. Commercial signals are not perceived, since the hearing effect requires pulsation within the limits that elicit perception. A variety of antennae localize the structurally penetrating microwave illumination with collimation or focusing. A patent, *“compatible for mobile platforms with DEWs,”* (Directed Energy Weapons) includes a modified Luneburg lens emitting parallel rays with over 50 years’ utilization.

**Hablov Patent # 5448501 *“Electronic life detection system”*** is for microwave radar within the hearing spectrum that finds and distinguishes individuals through obstruction: *“the modulated component of the reflected microwave signal forms a type of “electronic fingerprint “of the living being with characteristic features, which . . . permits a distinction between different living beings.”* **Patent # 5530429 *“Electronic surveillance system”*** detects interlopers with security emphasis.

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On December 13, 2006 U.S. Army Intelligence in a report titled: ***"Bioeffects of Selected Nonlethal Weapons"*** declassified **Microwave Auditory Effect** research paving the way for broader study of noncochlear hearing. This technology makes use of a phenomenon first described in the literature over 30 years ago.

- Several types of sounds were heard depending on the particulars of the pulse characteristics. Virtually all investigators who have studied the phenomenon now accept thermoelastic expansion of the brain- the pressure wave of which is received and processed by the cochlear microphonic system, to be the mechanism of acoustic perception of short pulses of RF energy.
- As the report notes, *"Application of the microwave hearing technology could facilitate a private message transmission. It may be useful to provide a disruptive condition to a person not aware of the technology. Not only might it be disruptive to the sense of hearing, it could be psychologically devastating if one suddenly heard 'voices within one's head.'"*
- **Incapacitating Effect: Microwave Hearing**
- **Incapacitating Effect: Microwave Heating**
- **Incapacitating Effect: Disruption of Cortical Processing**

**Demonstration, please. An old adage states that *"a picture is worth a thousand words."* In this case *"a demonstration is worth a billion words."***

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