

## Electronic Harassment

Electronic harassment is a term referring to the use of electronic devices to harass, torture, or physically harm a person that emit an electrical current, impulse, wave, or beam to incapacitate temporarily or permanently, injure, or kill (Michigan Public Law 256 2003 and 257 2003). It is well accepted in scientific circles that there is a correlation between the electroencephalographic wave rhythms exhibited by the brain of a human and the state of consciousness of that being. Rhythms customarily found in the normal human adult when he is relaxed and his eyes closed have a pulse frequency in the seven-fourteen Hz. range and have come to be identified as "alpha" rhythms. Similarly, when a person is aroused and anxious, the rhythms exhibited fall in the 14-28 Hz. range and are known as "beta" rhythms. A normal person in sleep exhibits "delta" rhythms in the 1.75-3.5 Hz. range. Other brain wave rhythms which have been identified by researchers as being associated with various normal and abnormal states of consciousness are: "theta", 3.5-7.0 Hz. and "gamma", 28-56 Hz. Research by the applicant has led to the identification and naming of three additional rhythms, namely: "omega", 0.875-1.75 Hz.; "epsilon", 56-112 Hz.; and "zeta", 112-224 Hz. Researchers have devised a variety of systems for stimulating the brain to exhibit specific brainwave rhythms and thereby alter the state of consciousness of the individual subject. Most of these efforts have been aimed at inducing an alpha, or relaxed, brain wave rhythm or a delta, or sleep, brain wave rhythm. The result of using the electromagnetic waves (similar to mobile phone electromagnetic waves) to control the central nerve system to manipulate private thoughts, physical and cognitive functions with a super-computer connecting to the satellite to manipulate the unique brain frequency (EEG signals) that are constantly monitored is known as remote neural monitoring.

In 1960, biologist Allan Frey was working at General Electric's Advanced Electronics Center at Cornell University when he was contacted by a technician whose job was to measure the signals emitted by radar stations. The technician claimed that he could "hear" radar. Frey traveled to the facility where the man worked and stood at the edge of the radar beam. He went on to establish that the effect was real—microwave radiation from radar (and other source) could somehow be heard by human beings. The "hearing," however, didn't happen via normal sound waves perceived through the ear. It apparently occurred somewhere in the brain itself, as microwaves interacted with the brain's cells, which generate tiny electrical fields. Frey proved also that many deaf people and animals could hear microwave radiation. This phenomenon came to be known as the Frey effect, or simply "microwave hearing." The "Microwave Auditory Effect" causes buzzing, hissing, clicking, knocking or scratching sounds that are audible to the human ear when a person is in close proximity to microwave emissions. At the time of Dr. Frey's discovery no technology was available to send crystal clear audible words via

microwaves, but the possibility was there and it was highly explored in the decades that followed. Dr Joseph Sharp and Mark Grove were the first to capitalise on the effect while doing research for the Advanced Research Projects Agency at Walter Reed Army Institute of Research. In 1973 they were able to develop receiverless, wireless for communication and were able to transmit single syllable words into their own heads.

In 1975, Dr Jon Justensen, Laboratories of Experimental Neuropsychology VA Hospital Kansas City, MO, summarised and verified Dr Sharp's findings in an article entitled "Microwaves and Behaviour". It was published in the 'American Psychologists' (Volume 30, 1975, Number 3). Sharp and Grove used pulsed modulated microwave energy to transmit single syllables into the head. The proposed mechanism is through thermo-elastic expansion of tissues in the head that transmittal acoustic pressure wave to the cochlea. Once the cochlear receptors are stimulated, the sound is actually perceived through the same processes as for normal hearing. In 2003, published in the Journal Bioelectromagnetics, JA Elder and CK Chou found that the auditory response is dependent on the energy in a single pulse and not on the average power density. Effective radio frequencies range from 2.4-10000MHz, but an individual's ability to hear RF induced sound upon high frequency acoustic hearing in the KHz range above the 5KHz. James Lin is a professor at Illinois-Chicago and a fellow of the IEEE Committee on Man and Radiation. He began publishing on the auditory effect on the 1970s and has authored several books on the effects of the electromagnetic spectrum on human biology. In his 'Advances in Electromagnetic Fields in Living Systems' he states: 'Widespread applications of RF and microwave energy are found in RF article identification and surveillance, on-body sensing and interrogation, novel active and passive security and detection technology and proposed digital living network applications'. Lin concurred with Elder and Chou regarding thermo-elastic expansion being the mechanism behind the microwave auditory effect in an article published in 'Health Physics' in 2007 entitled: "Hearing of microwave pulses by humans and animals: effects, mechanisms and thresholds". In 1996 Alfred Ackerman proposed another method to pass audio signals through various media such as gases, liquids and solids. Working for Martin Marietta Systems Inc., and funded by a contract by the Department of Energy, Ackerman devised a method to convert audio signals to electronic signals in the ultrasonic frequency range. The ultrasonic signals could then be converted to acoustical pressure waves that would transmit across a carrier medium such as liquids and solids (buildings, etc). The acoustic waves could then be reconverted back to audio signals. This involves modulating the human voice audio signal on an ultrasonic carrier frequency that would also be carried across a medium with an acoustic wave. Once the carrier signal has passed through the liquid/solid medium, it can be demodulated leaving only the audio signal intact. Thus, the system can be used for communication without the use of traditional radio frequencies. In his patent, Ackerman that value of this method for communications where a high degree of security is required. Covert radio frequency communication requires scrambling the signal or trunking between frequencies to avoid interception. Furthermore, the presence of radio signals could be detected and cause problems for any RF based covert communications. By using ultrasonic signals converted to acoustic waves, the communication system would be impervious to traditional RF detection systems. In his patent he states, "by way of example and not limitation, the

disclosed invention is useful in a variety of applications including undercover operations, industrial applications, and many commercial uses in various media". This technology is used for surveillance, harassment and corporate espionage using the eyes to view what the person sees and read all the levels of the thought. The microwave auditory effect is specifically mentioned in the Army's Addendum to the Non-Lethal Technologies Worldwide "Bio-Effects of Selected Non-Lethal Weapons" released through the Freedom of Information Act. This document written in 1998, mentions the value of the microwave auditory effect communicating with a hostage without his captives hearing. Furthermore, it mentions its usefulness in providing a

disruptive condition in a person unaware of the technology. In 1968 Dr. Patrick Flanagan invented the Neurophone, an electronic nervous system excitation device that transmits sound through the skin directly to the brain, for which he received U.S. Patent no.3,393,279. The transmitter is therefore the brain itself just as body heat is used for "Iris" satellite tracking (infrared) or mobile phones or bugs can be tracked as "transmitters". In the case of brain wave monitoring the results are then fed back to the relevant computers. Monitors then use the information to conduct a "conversation" where audible neurophone input is "applied" to the victim. In 1994, the brain wave patterns of 40 subjects were officially correlated with both spoken words and silent thought. This was achieved by a neurophysiologist, Dr Donald York, and a speech pathologist, Dr Thomas Jensen, from the University of Missouri. They clearly identified 27 words / syllables in specific brain wave patterns and produced a computer program with a brain wave vocabulary. The relevant computers today have a vocabulary in excess of 60,000 words and cover most

languages. Human thought operates at 5,000 bits/sec but satellites and various forms of biotelemetry can deliver those thoughts to supercomputers in Maryland, U.S.A, Israel, etc which have a speed of over 300 trillion bits/sec which means just one (Blue Gene) supercomputer can process more information than ten times the entire world's population.

Lawrence Pinneo, a neurophysiologist and electronic engineer working for Stanford Research Institute (a military contractor) developed a computer system in 1974, which correlated brain waves on an electroencephalograph with specific central nerve system commands i.e. forced movement and speech, subliminal thoughts, etc. In fact, the NSA's signals intelligence monitor the brainwaves of their targets by satellite and decode the brain activity (evoked potentials) at 3.50Hz 5 milliwatts. So, using lasers / satellites and high-powered computers the agencies have now gained the ability to decipher human thoughts – and from a considerable distance (instantaneously).

Vasiliev in 'Experiments in Distant Influence' (1976) was able to remotely influence changes in subjects such as motor acts, visual images, sleepiness, wakefulness and changes in electro-dermal activity. Remote viewing is still studied by several privately funded groups made up of former Stargate private subjects. Vasiliev's experiments were later replicated by William G. Braud and Associates.

E.W. Ballentine and B.C. Gindes, in their U.S. Pat. No. 3,762,396, granted Oct. 2, 1973, for "Method and Apparatus for Inducing Sleep by Applying Electrical Pulses to Plural Portions of the Head", disclose a system for inducing sleep, treating psychosomatic disorders, and aiding the induction of hypnosis. With this system, the patient is subjected to three stimuli. The first stimulus is electrical current pulses having a frequency of 8-10 CPS applied by electrodes to the back of the head. A second stimulus of electrical current pulses having a frequency four times the frequency of the first stimulus is applied to the optic nerve through electrodes on the forehead. The third stimulus is a sound signal produced by the first stimulus and applied to the patient via sound attenuating chambers in order to isolate the patient from a noisy environment.

U.S. Pat. No. 3,576,185 was granted Apr. 27, 1971, to H. Shulz for "Sleep-Inducing Method and Arrangement Using Modulated Sound and Light". This patent describes an apparatus and a method for inducing sleep by directing at the subject two sound signals in the range of 40-80 Hz., free of overtones and amplitude modulated between the perceivable minimum and a perceivable maximum. The two signals differ in frequency by approximately 0.5-2 Hz. Optical stimuli may also be used.

K. Masaki in his U.S. Pat. No. 4,834,701, granted May 30, 1989, for "Apparatus for Inducing Frequency Reduction in Brain Wave" states his objective to be the reduction of beta-rhythm into alpha-rhythm as well as to retain alpha-rhythm. The subject is subjected to two sound signals which are each higher in frequency than 4-16 Hz. But are different and produce a beat signal which is within the 4-16 Hz. range. It is represented that the subject exhibits improved ability in learning, researching and inventing.

In 1999 researchers at the Albert Einstein College of Medicine described recording field potentials directly from the auditory cortex in the International Journal of Neurophysiology. Digital voice generators and robotic limbs that may be controlled from thought originating from the speech centres of the brain. Humans can perceive ultrasonic sound through an inner ear called saccule. The saccule is an organ used for balanced; however when stimulated with ultrasonic sound it sends neural signals to the part of the brain used for sound. The current neurophone has audio inputs that allow for music inc. voice to be played into the brain. Some researchers took the path of finding ways to place silent, subliminal messages into the brain while others focused on the audible component as a weapon and tool for harassment.

I.M.Kogan demonstrated that shielding did not stop the phenomenon of remote viewing and influencing.

Robert Malech researched remotely monitoring with electro magnetic frequency radiation and altering brain waves (US Patent 3951134, 1974). The computer sent a base signal and a first signal to the brain to the victim. The brain of the victim would then transmit a second signal back to a receiver in response to the two incoming signals. The waveform would return to the computer and then the demodulated waveform would be used to produce a compensating signal which would be

transmitted back to the brain. His patent was published in 1976 and his apparatus was comprised on materials from radar systems. Modern technology converted the brainwaves into audible thoughts. A dictionary of EEG waveforms corresponding to various emotional states was created and it was easy to cause a normal subject's brain to entrain the desired waveform to produced a desired emotional state, push subliminal thoughts induced by the operator targeting the individual, etc. The visual and auditory cortices of the brain could be entrained to stimulate visual and auditory hearing (microwave hearing) respectively. This would result in holograms and sounds that cannot be attributed to a realistic source in their surroundings. Dr Oliver M. Lowery, (US Patent # 5,159,703. October 27th, 1992) invented a silent communications system in which non-aural carriers (subliminal messages), in the very low or very high audio frequency range or in the adjacent ultrasonic frequency spectrum, are amplitude or frequency modulated with the desired intelligence and propagated acoustically or vibrationally, for inducement into the brain, typically through the use of loudspeakers, earphones or piezoelectric transducers. The modulated carriers may be transmitted directly in real time or may be conveniently recorded and stored on mechanical, magnetic or optical media for delayed or repeated transmission to the listener. Edward Tilton, the President of Silent Sounds Inc., stated in a letter dated 13 December 1996 that all schematics of the system have been classified by the US Government. Silent Sound Technology was allegedly used in the first Gulf War to subliminally induce Iraqi soldiers to surrender according to two news briefs from ITV News Bureau Ltd. According to the new briefs, one of the soldiers involved was quoted as stating, "They were surrendering in droves, almost too fast to keep up with..."

The Soviet military enlisted Smirnov's psychotechnology during the Soviet Union's bloody war in Afghanistan in the 1980s. "It was used for combating the Mujahideen, and also for treating post-traumatic stress syndrome" in Russian soldiers. DHS announced plans to award a sole-source contract to conduct the first U.S.-government sponsored testing of Semantic Stimuli Response Measurements Technology, Mindreader 2.0, a software-based mind reader that tests a subject's involuntary response to subliminal message for terrorism. Weaponised versions of the microwave auditory effect and acoustic wave technology include the MEDUSA weapon and the S-Squad (silent sound spread spectrum). The MEDUSA weapon (mob excess deterrent using silent audio) is the brain child of Dr Lev Sadovnik. The initial research was funded by the Navy from 11/19/2003 - 5/19/2004 under contract no. M67854-04-C-1012. The Navy was interested in using the MAE as remote personnel incapacitation system by inducing distressing sounds into the human head. Dr Sadovnik has continued working on the MEDUSA project through the Sierra Nevada Corporation.

The combined technologies of brain state inducement and biofeedback using lasers, particle beams, microwaves and scalar waves influence thinking, behaviour and performance to gather intelligence, manipulate the individual's thoughts and actions

and kill by the state or criminal organisations. In the late 1990s, Vladimir Lopatin, then a member of the Duma, Russia's parliament, pushed to restrict mind control weapons, a move that was taken seriously in Russia but elicited some curious mentions in the Western press. In an interview in Moscow, Lopatin, who has since left the Duma, cited Smirnov's work as proof that such weaponry is real. "It's financed and used not only by the medical community, but also by individual and criminal groups," Lopatin said. Terrorists might also get hold of such weapons, he added. Professor Hawkin's speech generating device used movements of his cheek muscles in 2005 with a rate of about one word per minute. Researchers later collaborated to develop a system that could translate his brain patterns into switch activations and words due to lock-in-syndrome deterioration.

The Rockefeller Commission in 1975 brought release of many records regarding CIA remote neural monitoring projects through Freedom of Information. The Church Committee also shed light on unethical behaviour by the CIA, FBI and the NSA. MKULTRA Subproject's: 5,25,29,49 paved the way for the experimentation we see today. The projects were conducted by Dr Alden Sears from 1953 to 1956. They involved the study of voice to skull and control of the different brain functions. All they were labelled top secret under the auspices of the University of Denver and the University of Minnesota.

Subproject's 23,45 were contracted to Charles Geschikter from 1953 to 1956. They were done under the auspices of the University of Richmond and the Institute of Health. Subproject 23 involved the use of chemicals that would modify the function of the central nervous system. Subproject 45, through the NHI, involved the development of techniques to maximise physical and emotional stress in human beings and subproject 62 (NIH) involved the stimulation of monkey's brains with various radio frequencies in 1956. Dr Ewen Cameron directed Subproject 68 in 1957 at McGill University. It studied the effects of verbal signals on human behaviour e-patterning a subject through massive amounts of electro-convulsive therapy. Cameron published his results on the American Journal of Psychiatry in an article entitled 'Psychic Driving'. Subproject 94 was conducted through the Bio-Search Inc. Company and the Panoramic Research Company. Both companies were founded by the CIA and studying remote control behaviour through brain stimulation. Dr Saul Sells directed project 119 under the auspices of Texas Christian University in 1960. He was researching the techniques of controlling the human organism by remote control means. The subjects of this project were unwitting and many were children. Some of the adults in their 50s were interviewed by Dr Saul Sells, who mentions that the subjects were still under remote neural monitoring. Subject 138 involved the creation of biomedical sensors at the University of Texas Austin in 1961. Its subjects were unwilling. Under the umbrella of MKULTRA several researchers also

investigated the use of RFID brain implants to alter the human condition. The goal was the same in all of the studies; to control human behaviour through the introduction of electric shock, radio frequency or directed energy to the brain. Dr. Jose Delgado, a Yale neurosurgeon, funded by Navy, Air Force and Public Health Service to search the effects on brain stimulation on epilepsy and group behaviour as described in his book *Physical Control of the Mind: Toward a Psycho-Civilised Society*. This research included planting electrodes on the brains of both animals and humans, allowing them to control their movements and emotions. Dr Vernon Mark and Dr Frank Ervin used Delgado's techniques to implant patients at Harvard and UCLA. Under Dr. Louis Joylon at UCLA, the plan was to use brain implants to control criminal behaviour in an urban setting. In the late 1960s-1970s researchers turned the exposure of the brain to electro-magnetic fields to procure similar results to brain stimulation and implantation.

Stargate was one of a number of "remote viewing programs" (remote neural monitoring) conducted under a variety of code names, including Sun Streak, Grill Flame, and Centre Lane by DIA and INSCOM, and SCANATE by CIA. These efforts were initiated to assess foreign programs in the field; contract for basic research into the phenomenon; and to evaluate controlled remote viewing as an intelligence tool. The research program was maintained separately from the operational unit. Dr Harold Putoff and Dr Russell Targ participated in Stargate and Grill Flame using remote viewing until the 1990s. Several agencies in America are currently known to hire out their services for remote neural monitoring. I.M.Kogan demonstrated that shielding did not stop the phenomenon of remote neural monitoring.

The FBI used COINTELPRO to infiltrate and subvert certain social and political groups that were deemed as a threat to national security. They include public character assassination, harassment through legal and financial institutions, conspicuous surveillance, illegal breaking and entering, psychological operations, vandalism and assault. Harassment is often through the manipulation of employers, parents, neighbours, or landlords to assist in the victimisation of the intended target. COINTELPRO remained secret until 1971 when an FBI field office was broken into and documents relating to COINTELPRO operations were leaked to the press. In 1976 an investigation was launched by the Select Committee to study governmental operations with respect to Intelligence Activities of the United States Senate. This was chaired by Senator Frank Church and is referred to as the Church Committee Hearings. The final report found the FBI guilty of vigilante operations aimed squarely at preventing the exercise of First Amendment rights of speech and association. Unsavoury and victim tactics have been employed, including anonymous attempts to break up marriages, disrupt meetings, estrange persons from their professions and provoke target groups into rivalries that might result in death. These tactics are identical to those used by organised stalking groups today. The organisation identified in San Antonio, Texas as 'hiring out' this type of

harassment is licensed as a private investigative agency. This agency is owned by a former FBI agent in his seventies, who would have been in his prime as a COINTELPRO agent. This group continues to victimise people despite complaints. All of the victims are experiencing remote neural monitoring, stalking, appliance tampering and break-ins.

There are biologic effects that energy and non-ionising radiation have on the various systems of the body. Weapons such as the Active Denial System operate at 94GHz and other high powered microwave systems operate between 1-3Ghz. Some groups have reported blood brain barrier defects and nerve cell death with exposure in these ranges. Non-thermal effects that have been reported include changes in the immune system, neurologic effects, behavioural effects, cancer, alzheimer's, sleep deprivation, leukaemia, blindness and disabilities in the foetus between others. Remote Neural Monitoring can kill individuals in seconds giving 15Hz to the heart nerves in the brain. In 2010, the Los Angeles County Prison System announced that they would be putting into use a laser system to control unruly prisoners. The Assault Intervention Device, Active Denial System and Guardian Protection System by Raytheon would allow deputies to target difficult prisoners with a joystick controller to inflict a painful burn in order to control them. Millimetre waves move at the speed of light and penetrate skin at a depth of 1/64 of an inch causing thermal pain in dermal nerve endings. Several cities in America saw the use of long range acoustic devices (LRADS) by local law enforcement agencies to institute crowd control. It was used at the G20 summit in Pittsburg and British Columbia as well as on a crowd in San Diego, California.

Electronic equipment is particularly vulnerable to microwave attack. The thin strips of wire, semiconductors and circuitry etched can be easily heated to the point of destruction. A current of less than a milliamp may be sufficient to melt conducting paths on a circuit board. As electronic technology tends toward smaller and more compact circuits, designs have less space available to incorporate heat sinks or voltage escape pathways. Thus our trend to minimisation of electronic components is making them significantly more vulnerable to directed energy attacks. Targeted individuals mobiles are destroyed with electromagnetic frequencies directed at the person or animals at home. RFID chips implanted in some targeted individuals makes it easier for them to be targeted, the same as animals. Passports, debit and credit cards is read from 10m away, they extract the minimum amount at the same time as the person is walking in the street. Electronic equipment can be attacked in two ways, through in-band and out of band attacks. In-band is achieved through directing the frequency to the target within its normal operating band. This type of attack enters through antennas or openings at the target device. The device itself amplifies the incoming signal causing further damage to the person and the target



device. For this reason, military radar equipment is designed to frequency hop so intentionally harmful frequencies directed at the equipment cannot be maliciously received. An out of band attack applies raw power to the target in order to override its circuit.

The Galileo Project is used to locate individuals using remote neural monitoring and GPS, their emails and mobiles with the information transferred to third parties and compatible with the American systems in such a way that they can be interchanged.

In March 2012 the Russian defense minister Anatoli Serdjukov said:  
“The development of weaponry based on new physics principles; direct-energy weapons, geophysical weapons, wave-energy weapons, genetic weapons, psychotronic weapons, etc., is part of the state arms procurement program for 2011-2020,”[Voice of Russia](#)

In January 2007, the Washington Post wrote on the same subject:

"In 2002, the USA Air Force Research Laboratory patented precisely such a technology: using microwaves to send words into someone's head ... Rich Garcia, a spokesman for the laboratory research directed energy directorate, declined to discuss the research that patent or current or related field, citing policy lab does not comment on the work of microwave it. in response to Freedom of request Information Act apply to this article, the Air Force released documents unclassified around 2,002 patent - records which noted that this patent is based on human experimentation in October 1994 in the laboratory of the Air Force , where scientists were able to transmit phrases into the heads of human subjects, although with marginal clarity. the study appears to continue at least until 2002. where this work has been since clearly - a research laboratory, citing classification, refused to discuss or release other substances “.

In 1994 Clinton appoints ACHRE - Advisory Commission of Human Radiation Experiments. A hearing begins regular on non-consensual exposure to radiation over the past four decades by various agencies. An apology is given to the victims. (Guinea Pigs: Technologies of Control, Dr. John Hall).

## **ELECTRONIC HARASSMENT TRIALS IN THE USA**

John St. Clair Akewei worked for NASA and was targeted at work with remote neural monitoring.

John St. Clair Akewei v NASA (1992)

### **USA Signals Intelligence (SIGINT)**

The Signals Intelligence mission of the NSA has evolved into a program of decoding EMF waves in the environment for wirelessly tapping into computers and tracking persons with the electrical currents in their bodies. Signals Intelligence is based on the fact that everything in the environment with an electric current in it has a magnetic flux around it which gives off EMF waves. The NSA/DoD has developed proprietary advanced digital equipment which can remotely analyze all objects whether man-made or organic that have electrical activity.

### **Domestic Intelligence (DOMINT)**

The NSA has records on all U.S. citizens. The NSA gathers information on U.S. citizens who might be of interest to any of the over 50,000 NSA agents (HUMINT). These agents are authorized by executive order to spy on anyone. The NSA has a permanent National Security Anti-Terrorist surveillance network in place. This surveillance network is completely disguised and hidden from the public.

Tracking individuals in the U.S. is easily and cost-effectively implemented with the NSA's electronic surveillance network. This network (DOMINT) covers the entire U.S., involves tens of thousands of NSA personnel, and tracks millions of persons simultaneously. Cost effective implementation of operations is assured by NSA computer technology designed to minimize operations costs.

NSA personnel serve in Quasi-public positions in their communities and run cover businesses and legitimate businesses that can inform the intelligence community of persons they would want to track. N.S.A. personnel in the community usually have cover identities such as social workers, lawyers and business owners.

Individual citizens occasionally targeted for surveillance by independently operating NSA personnel.

NSA personnel can control the lives of hundreds of thousands of individuals in the U.S. by using the NSA's domestic intelligence network and cover businesses. The operations independently run by them can sometimes go beyond the bounds of law. Long-term control and sabotage of tens of thousands of unwitting citizens by NSA operatives is likely to happen. NSA Domint has the ability to covertly assassinate U.S. citizens or run covert psychological control operations to cause subjects to be diagnosed with ill mental health.

### **NSA's domestic electronic surveillance network**

As of the early 1960's the most advanced computers in the world were at the NSA, Ft. Meade. Research breakthroughs with these computers were kept for the NSA. At the present time the NSA has nanotechnology computers that are 15 years ahead of present computer technology.

The NSA obtains blanket coverage of information in the U.S. by using advanced computers that use artificial intelligence to screen all communications, irregardless of medium, for key words that should be brought to the attention of NSA agents/cryptologists. These computers monitor all communications at the transmitting and receiving ends. This blanket coverage of the U.S. is a result of the NSA's Signals Intelligence (SIGINT) mission.

The NSA's electronic surveillance network is based on a cellular arrangement of devices that can monitor the entire EMF spectrum. This equipment was developed, implemented, and kept secret in the same manner as other electronic warfare programs.

With this technology NSA personnel can non-obtrusively tap into any communication device in existence. This includes computers, telephones, radio and video-based devices, printers, car electronics, and even the minute electrical fields in humans (for tracking individuals).

### **Signals Intelligence Remote Computer Tampering**

The NSA keeps track of all PCs and other computers sold in the U.S. This is an integral part of the Domestic Intelligence network.

The NSA's EMF equipment can tune in RF emissions from personal computer circuit boards (while filtering out emissions from monitors and power supplies). The RF emission from PC circuit boards contains digital information in the PC. Coded RF waves from the NSA's equipment can resonate PC circuits and change data in the PC's. Thus the NSA can gain wireless modem-style entry into any computer in the country for surveillance or anti-terrorist electronic warfare.

Radio and Television signals can be substituted at the receiving end with special EMF equipment. Replacing signals in Radios and Televisions is another outgrowth of the NSA's Signals Intelligence (SIGINT) mission.

### **Detecting EMF Fields in Humans for Surveillance**

A subject's bioelectric field can be remotely detected, so subjects can be monitored anywhere they are. With special EMF equipment NSA cryptologists can remotely read evoked potentials (from EEGs). These can be decoded into a person's brain-states and thoughts. The subject is then perfectly monitored from a distance.

NSA personnel can dial up any individual in the country on the Signals Intelligence EMF scanning network and the NSA's computers will then pinpoint and track that person 24 hours-a-day. The NSA can pick out and track anyone in the U.S.

### **NSA Signals Intelligence Use of EMF Brain Stimulation**

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."

Signals Intelligence implemented and kept this technology secret in the same manner as other electronic warfare programs of the U.S. government. The NSA monitors available information about this technology and withholds scientific research from the public. There are also international intelligence agency agreements to keep this technology secret.

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 continuously. The NSA records and decodes individual brain maps (of hundreds of thousands of persons) for national security purposes. EMF Brain Stimulation is also secretly used by the military for Brain-to-computer link. (In military fighter aircraft, for example.)

For electronic surveillance purposes electrical activity in the speech center of the brain can be translated into the subject's verbal thoughts. 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.

Without any contact with the subject, 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. 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.

Table of Contents

### **Capabilities of NSA operatives using RNM**

There has been a Signals Intelligence network in the U.S. since the 1940's. The NSA, Ft. Meade has in place a vast two-way wireless RNM system which is used to track subjects and non-invasively monitor audio-visual information in their brain. This is all done with no physical contact with the subject. RNM is the ultimate method of surveillance and domestic intelligence. Speech and 3D sound, and subliminal audio can be sent to the auditory cortex of the subject's brain (bypassing the ears) and

images can be sent into the visual cortex. RNM can alter a subject's perceptions, moods, and motor control.

Speech cortex/auditory cortex link has become the ultimate communications system for the intelligence community. RNM allows for a complete audio-visual brain-to-brain link or brain-to-computer link.

Table of Contents

## **National Security Agency Signals Intelligence Electronic Brain Link**

### **Technology**

NSA SigInt 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 by digitally decoding the evoked potentials in the 30-50 hz, .5 milliwatt electro-magnetic emissions from the brain.

Neuronal activity in the brain creates a shifting electrical pattern that has a 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."

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.

NSA SigInt uses EMF-transmitted Brain Stimulation as a communications system to transmit information (as well as nervous system messages) to intelligence agents and also to transmit to the brains of covert operations subjects (on a non-perceptible level).

EMF Brain Stimulation works by sending a complexly coded and pulsed electromagnetic signal to trigger evoked potentials (events) in the brain, thereby 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 transmitting sound to the auditory cortex (bypassing the ears) and transmitting faint images to the visual cortex (bypassing the optic nerves and eyes,

the images appear as floating 2-D screens in the brain).

Two-Way Electronic Brain Link has become the ultimate communications system for CIA/NSA personnel. Remote Neural Monitoring (RNM, remotely monitoring 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.

RNM requires decoding the resonance frequency of each specific brain area. That frequency is then modulated in order to impose information in That specific brain area. The frequency to which the various brain areas respond varies from 3 Hz to 50 Hz. Only NSA Signals Intelligence modulates signals in this frequency band.

An example of EMF Brain Stimulation:

Brain Area	Bioelectric Resonance Frequency	Information Induced Through Modulation
Motor Control Cortex	10 HZ	Motor Impulse Co-ordination
Auditory Cortex	15 HZ	Sound which bypasses the ears
Visual Cortex	25 HZ	Images in the brain, bypassing the eyes
Somatosensory Cortex	09 HZ	Phantom Touch Sense
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.

The Plaintiff learned of RNM by being in two-way RNM contact with the Kinnecome group at the NSA, Ft. Meade. They used RNM 3D sound direct to the brain to harass the Plaintiff from 10/90 to 5/91. As of 5/91 they have had two-way RNM communications with the Plaintiff and have used RNM to attempt to incapacitate the Plaintiff and hinder the Plaintiff from going to authorities about their activities against the Plaintiff in the last twelve years.

The Kinnecome group has about 100 persons working 24-hours-a-day at Ft Meade. They have also brain-tapped persons the Plaintiff is in contact with to keep the Plaintiff isolated. This is the first time ever that a private citizen has been harassed with RNM and has been able to bring a lawsuit against NSA personnel misusing this intelligence operations method.

Table of Contents

## NSA Techniques and Resources

Remote monitoring/tracking of individuals in any location. inside any building, continuously, anywhere in the country.

A system for inexpensive implementation of these operations allows for thousands of persons in every community to be spied on constantly by the NSA.

#### Remote RNM Devices

a) NSA's RNM equipment remotely reads the evoked potentials (EEGs) of the human brain for tracking individuals and can send messages through the nervous system to affect their performance.

b) [Information missing from original]

c) RNM can electronically identify individuals and track them anywhere in the U.S. This equipment is on a network and is used for domestic intelligence operations, government security, and military base security, and in case of bioelectric warfare.

#### Spotters and Walk-Bys in Metropolitan Areas

a) Tens of thousands of persons in each area working as spotters and neighborhood/business place spies (sometimes unwittingly) following and checking on subjects who have been identified for covert control by NSA personnel.

b) Agents working out of offices can be in constant communication with Spotters who are keeping track of the NSA's thousands of subjects in public.

c) NSA Agents in remote offices can instantly identify (using RNM) any individual spotted in public whom is in contact with surveillance subject.

Chemicals and Drugs into Residential Buildings with hidden NSA-Installed and maintained plastic plumbing lines.

a) The NSA has kits for running lines into residential tap water and air ducts of subjects for the delivery of drugs (such as sleeping gas or brainwashing aiding drugs). This is an outgrowth of CIA pharmapsychology.

#### Brief Overview of Proprietary U.S. Intelligence/Anti-Terrorist Equipment Mentioned.

Fixed network of special EMF equipment that can read EEGs in human brains and identify/track individuals by using digital computers. ESB (Electrical Stimulation to the Brain) via EMF signal from the NSA Signals Intelligence is used to control subjects.

EMF equipment that gathers information from PC circuit boards by deciphering RF emissions thereby gaining wireless modem-style entry into any personal computer in the country.

All equipment hidden, all technology secret, all scientific research unreported (as in electronic warfare re- search).

Not known to the public at all, yet complete and thorough implementation of this method of domestic intel- ligence has been in place since the early 1980's.

These publications have only been discovered since December 1991, after Plaintiff had already notified authorities (Dept. of Justice, etc.) of Public Corruption by named NSA employees. When no action was taken against the NSA employees I researched the Intelligence Community electronic surveillance technology involved and discovered the following publications:

- Modern Bielectricity  
Inducing audio in the brain with e-m waves, DoD cover-up, E-M wave ESB.  
Remote EEGs.
- Magnetic Stimulation in Clinical Neuropsychology by Sudhansu Chokroverty  
Magneto-Phosphenes. Images direct to the visual cortex.
- The Mind of Man by Nigel Calder U.S. Intelligence brain research
- Neuroelectric Society Conference - 1971  
Audio direct to the brain with e-m waves, two waf remote EEG.
- Brain Control by Elliot S. Valenstein ESB control of individuals
- Towards Century 21 by C.S. Wallia  
p. 21. Brain Stimulation for direct to brain communication.
- Mind Wars by Ron McRae, associate of Jack Anderson  
p 62/106/136. Research into brain-to-brain electronic communications, remote neural e-m detection.
- Mind Tools by Rudy Rucker  
Brain tapping, communication with varying biomagnetic fields. p. 82
- U.S. News and World Report 1/2/84  
p. 88. e-m wave brain stimulation. Intelligence community high tech.
- Ear Magazine article on extremely low frequency radio emissions in the natural environment, radio emissions from the human body.  
City Paper article on FCC and NSA "complete radio spectrum" listening posts. 1/17/92.  
Frontiers in Science - 1958 - by Edward Hutchings, Jr.
- p. 48  
Beyond Biofeedback - 1977 - by Elmer and Alyce Green
- p. 118



The Body Quantum by Fred Alan Wolf  
Cloning - A Biologist Reports by Robert Gilmore McKinnell

- Ethical review of cloning humans. Hoover's FBI by former agent William Turner
- p. 280. Routines of electronic surveillance work. July 20, 2019 by Arthur C. Clarke
- Lida, Neurophonics, Brain/Computer Link MegaBrain by Michael Hutchison
- p. 107/108/117/120/123. Brain stimulation with e-m waves. CIA research and information control. The Cult of Information by Theodore Rosnak - 1986
- NSA Directive #145. Personal Files in Computers. Computer automated telephone tapping The Body Shop 1968 implantation of an electrode array on the visual cortex for video direct to the brain and other 1960s re- search into electronically triggering phosphenes in the brain, thus bypassing the eyes. Evoked Potentials by David Regan. Decoding neuroelectric information in the brain.

Former Ohio Senator John Glenn introduced the Human Research Protection Act to Congress in January 1997 (S.196) as shown below.

Former President William Clinton issued Executive Order 12975 October 3, 1995 to regulate research on human subjects named Protection of Human Research Subjects and Creation of National Bioethics Advisory Commission. A memorandum was issued March 27, 1997 by President Clinton strengthening the protection of use of human subjects in military "Classified" research. Ohio Representative Dennis Kucinich introduced the Space Preservation Act in October 2001 (HR 1977), asking Congress to ban the use of military space weapons in the United States which included psychotronic weapons.

## THE CONGRESSIONAL RECORD

January 22, 1997

Statements on Introduced Bills and Joint Resolutions  
(Page S645)

Human Research Subject Protection Act

Mr. GLENN. Madam President, I rise today to introduce the Human Research Subject Protection Act of 1997. I send the bill to the desk.

Mr. GLENN. Madam President, if I approached any Senator here and I said, 'You did not know it, but the last time they went to the doctor or went to the hospital, your wife or your husband or your daughter or your son became the subject of a medical experiment that they were not even told about. They were given medicine, they were given pills, they were given radiation, they were given something and were not even told about this, were not even informed about it, yet they are under some

experimental research that might possibly do them harm - maybe some good will come out of it, but maybe it will do them harm also - but they do not know about it,' people would laugh at that and say that is ridiculous. That cannot possibly happen in this country. Yet, that very situation is what this piece of legislation is supposed to address.

I have been in public life and have served this country for many years. Frankly, I do not think too many things that I see surprise me anymore about our laws and about Government. Three years ago, though, I began to learn about a gap in our legal system that does truly concern me. In 1993 the Governmental Affairs Committee began to investigate the cold war radiation experiments. These experiments are one of the unfortunate legacies of the cold war, when our Government sponsored experiments involving radiation on our own citizens without their consent. They did not even know the experiments were being run on them. It was without their consent.

One of the most infamous of these experiments took place in my own State of Ohio, when scores of patients at the University of Cincinnati were subjected to large doses of radiation during experimental treatments, without their consent, without their informed consent. During the course of this investigation, I began to ask the question, what protections are in place to prevent such abuses from happening again? What law prohibits experimenting on people without their informed consent? What I found, when I looked into it, is there is no law on the books requiring that informed consent be obtained. More important, I believe there is a need for such a law, as there continue to be cases where this basic right - I do view it as a basic right - is abused. As I started out, I would like to put this on a personal level for everyone of my colleagues. You just think about your own family, your own son, your own daughter, or grandchildren who might be, the next time they go to a doctor, the subject of some medical experiment that they are not even told about. I do not think there can be many things more un-American than that.

With the introduction of this bill today I hope to begin the process of correcting some serious gaps in our legal system. I want to make clear right now I am not seeking to bring medical research to a screeching halt. Please do not anybody at NIH, or anybody doing research throughout this country, think we are trying to stop that. We are not. That is not my intent and not the intent of this bill.

This country has the very finest health care system in the world, in part because of basic research. In fact, in large part because we have put more effort, more resources, more of our treasure into health research than any other nation in this world. In fact, I believe most people are not opposed to participating themselves in scientific research, if they are told about the pros and the cons. That is the goal of this legislation, to make sure that people have the appropriate information to make an informed choice about their medical treatment.

Everyone listening today probably has heard of the Nuremberg Code. That is the list of 10 ethical research principles which were produced as part of the judgment against Nazi physicians who engaged in truly heinous medical experiments during World War II.

The first principle of the Nuremberg Code states that the voluntary consent of the human subject of research is absolutely essential. Unfortunately, as we look back through our history since the late 1940's, it appears that researchers in America may not have taken all that Nuremberg lesson completely to heart.

I ask my colleagues what the following names might have in common: thalidomide,

Tuskegee, and Willowbrook?

Well, the answer is that these are all sad examples of unethical research conducted in the United States, and in the United States well after the Nuremberg Code was issued, adopted and worldwide attention had been focused on some of the abuses of that time during World War II. Given this history, I find it astounding that even after Nuremberg, the thalidomide babies, Willowbrook, Tuskegee and the cold war radiation experiments, and who knows how many other cases, we still don't have a law on our books requiring that informed consent - those two words, 'informed consent' - be obtained prior to conducting research on human subjects.

I have had research conducted on me because of my past activities before I came to the Senate in the space program and so on, but I knew what was being looked at, what was being tried. I knew the objectives of it, and I was willing to do that. I was happy to do it. But it was informed consent that I had personally, and I knew what I was getting into and glad to do it.

I think most people feel the same way. If they know what they are getting into and they feel there is a good purpose to it, they are willing to do it. But to do research on people when they don't even know what the research or the medicines or the radiation is that is being tried on them, I think is unconscionable.

What it comes down to is there are no criminal fines or penalties for violating the spirit or the letter of that Nuremberg Code that should be the basis of all of our informed consent in this country. In fact, our own Constitution says, 'The right of the people to be secure in their persons . . . shall not be violated.' So there is no explicit statutory prohibition against improper research. I must add that just because there is no law on the books does not mean there are no protections for people from unethical medical or scientific research.

These tragic incidents I have mentioned have resulted in changes in the way human research subjects are treated. I don't want to misrepresent this, because there is a very elaborate system of protections that have developed over the years.

Unfortunately, though, this system does have some gaps and, if enacted, I believe this legislation will close those gaps. ...[end excerpt] for the entire bill go to: <http://www.icomw.org/documents/glenn.pdf>

-----  
Lynn A. Surgalla, Former Vice-President  
United States Psychotronics Association  
P.O. Box 2

Monmouth Beach, NJ 07750

6/20/05

To the Court:

As Former Vice-President of the United States Psychotronics Association, I assure the Court that the illegal testing, development and use of Psychotronic, Microwave, Laser and other forms of Electromagnetic Directed Energy Weaponry is a matter of grave concern to both the US and International Communities. These weapons are ALL potentially LETHAL, although sublethal injuries may also be inflicted as with the use of any other lethal weapon such as gun, knife or chemical poison. Assault and Battery and/or torture/murder with any form of Directed Energy Weapon IS Assault and Battery and/or torture/murder with a LETHAL WEAPON. Despite claims to the contrary by criminal elements in our own government, there is NO SUCH THING as a NONLETHAL WEAPON (even those currently in vogue for "Slow Kill" torture-interrogation by war criminals worldwide).

In 2001, HR2977, The Space Preservation Act (2001) was introduced into Congress to BAN ALL Directed Energy Weapons. Its passage has thusfar been blocked. In 2002, the United Nations Institute for Disarmament Research (UNIDIR) formally listed a NEW CATEGORY of WEAPON OF MASS DESTRUCTION (Psychotronic Mind Control and other Electromagnetic Resonance Weapons) in their 2002 Media Guide to Disarmament. In 2003, the State of Michigan passed into Law House Bills 4513 and 4514 BANNING the use of ALL FORMS of ELECTROMAGNETIC WEAPONS against Human Beings in the State of Michigan. In 1999, the European Union Parliament passed Resolution A4-005/1999 Section 27 which "Calls for an International Convention introducing a GLOBAL BAN on all developments and deployments of weapons which might enable any forms of manipulation of Human Beings." (PSYCHOTRONIC WEAPONS)

Ms. Millicent Black's claim of being assaulted with some form of DIRECTED ENERGY WEAPON is to be taken very seriously. If the criminal assailants are found to be law enforcement personnel or government employees, then the crime is an EVEN MORE SERIOUS OFFENSE with grave political implications. If the crime is found to be racially or religiously-motivated torture-assault, then the bias-crime laws also apply.

I assure you that similar cases of assault-torture-murder with these weapons are being addressed all over the world. Please give this matter your closest attention. The INTERNATIONAL HUMAN RIGHTS COMMUNITY is deeply interested in the outcome and concerned that justice be served in all cases of Directed Energy Weapons assault.

Attached to this letter is a copy of my resume and relevant pages from HR2977 which lists the forms of Electromagnetic Directed Energy Weaponry currently in use.

Sincerely,

(signature on file)

Lynn A. Surgalla

Former Vice-President

United States Psychotronics Association

-----  
To see the entire bill go to: <http://www.fas.org/sgp/congress/2001/hr2977.html>

107th CONGRESS

1st Session

H. R. 2977

To preserve the cooperative, peaceful uses of space for the benefit of all humankind by permanently prohibiting the basing of weapons in space by the United States, and to require the President to take action to adopt and implement a world treaty banning space-based weapons.

IN THE HOUSE OF REPRESENTATIVES

October 2, 2001

Mr. KUCINICH introduced the following bill; which was referred to the Committee on Science, and in addition to the Committees on Armed Services, and International Relations, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

SEC. 6. NON SPACE-BASED WEAPONS ACTIVITIES.

Nothing in this Act may be construed as prohibiting the use of funds for--

(1) space exploration;

- (2) space research and development;
- (3) testing, manufacturing, or production that is not related to space-based weapons or systems; or
- (4) civil, commercial, or defense activities (including communications, navigation, surveillance, reconnaissance, early warning, or remote sensing) that are not related to space-based weapons or systems.

#### SEC. 7. DEFINITIONS.

In this Act:

(1) The term `space' means all space extending upward from an altitude greater than 60 kilometers above the surface of the earth and any celestial body in such space.

(2)(A) The terms `weapon' and `weapons system' mean a device capable of any of the following:

(i) Damaging or destroying an object (whether in outer space, in the atmosphere, or on earth) by--

(I) firing one or more projectiles to collide with that object;

(II) detonating one or more explosive devices in close proximity to that object;

(III) directing a source of energy (including molecular or atomic energy, subatomic particle beams, electromagnetic radiation, plasma, or extremely low frequency (ELF) or ultra low frequency (ULF) energy radiation) against that object; or

(IV) any other unacknowledged or as yet undeveloped means.

(ii) Inflicting death or injury on, or damaging or destroying, a person (or the biological life, bodily health, mental health, or physical and economic well-being of a person)--

(I) through the use of any of the means described in clause (i) or subparagraph (B);

(II) through the use of land-based, sea-based, or space-based systems using radiation, electromagnetic, psychotronic, sonic, laser, or other energies directed at individual persons or targeted populations for the purpose of information war, mood management, or mind control of such persons or populations; or

(III) by expelling chemical or biological agents in the vicinity of a person.

(B) Such terms include exotic weapons systems such as--

(i) electronic, psychotronic, or information weapons;

(ii) chemtrails;

(iii) high altitude ultra low frequency weapons systems;

(iv) plasma, electromagnetic, sonic, or ultrasonic weapons;

(v) laser weapons systems;

(vi) strategic, theater, tactical, or extraterrestrial weapons; and

(vii) chemical, biological, environmental, climate, or tectonic weapons.

(C) The term `exotic weapons systems' includes weapons designed to damage space or natural ecosystems (such as the ionosphere and upper atmosphere) or climate, weather, and tectonic systems with the purpose of inducing damage or destruction upon a target population or region on earth or in space.

#### **Watterson v Aro (2014)**

Watterson had a secret cell tower radio frequencies directed at her according to the expert witness' measurements using RF spectrum analyser and a tri-field meter.

Levi McCann was an electronics and legal expert and was able to show that standard satellite dishes within a 5-mile radius of Kathleen's home were all pointed toward the equator where most satellites orbit the earth – except the defendant's satellite dishes which were pointed at Kathleen Watterson's house. He also revealed



that the other neighborhood satellite dishes were geared toward receiving signals for TV, the Internet, etc. – except the defendant's satellite dishes which, according to meter readings from an RF spectrum analyzer and a tri-field meter, were shown to be transmitting microwave signals at her house. The evidence presented won her the case.

### **Wilbert v Redford (2008)**

James Walbert was targeted with directed high energy microwave weapons, victimized by covert organized stalking and highly advanced forms of electronic harassment. Walbert's evidence included declassified government documents, photos and scientific data attesting to the authenticity of land-based and satellite-based directed microwave weaponry. His proof also included a radiation forensics report concluding Walbert is being targeted with obscure microwave frequencies. Walbert provided a letter from former Missouri State Representative James O. Guest corroborating that his office has recently investigated an estimated 300 complaints of electronic harassment and organized stalking. These are some of the same complaints made by employees of the U.S. Embassy in Moscow, Russia in 1976. They were being attacked by Soviet KGB microwave weapons, according to former Secretary of State Henry Kissinger.

"James Walbert has a good case," said former Republican Representative Guest. He chaired the Missouri House of Representatives Real ID and Personal Privacy Committee, and worked on proposed electronic harassment legislation. He said, "It's easier to discredit victims because none of us wants to believe that this is happening in America." Guest continued, "The weapons are undetectable but the evidence, especially the US patents I've seen and the victims I have spoken with tells me this is for real." Even one of Guest's staff members reported that after she began investigating complaints she was attacked with microwave weapons. Wilbert won the case as the defendant did not turn up at the trial.

"We are acutely aware of widespread, credible reports about the terrorizing tactics of electronic harassment and the increasing new phenomenon of clandestine vigilantism known as organized stalking," said Derrick Robinson, President of FFCHS (PACTS) in Cincinnati, Ohio. The organization is committed to expose, end and outlaw these atrocities. Robinson is a US Navy veteran formerly assigned to the National Security Agency as a linguistic expert. He says he became a targeted individual in 1982, shortly before he was honorably discharged from military service.

In 2008, Representative Guest said he was slated to meet with U.S. Senator Edward Kennedy of Massachusetts to discuss concerns about electronic harassment. However, the meeting was indefinitely postponed after Kennedy was diagnosed with a brain tumor.

### **HAARP**

HAARP (High Frequency Active Auroral Research Program) uses electromagnetic frequencies in the ionosphere and through satellite for weather modification, remote

neural monitoring and to control global communication systems.

Stratospheric aerosol geoengineering (SAG) is the term given for the intentional process of modifying the atmosphere and environment on a global scale.

Researchers on this topic simply refer to it as geoengineering, although chemtrails is the common term. Geoengineering has been suggested to reduce the harmful effects of alleged human-induced climate change. It has two basic methods: carbon dioxide removal (CDR) to get carbon dioxide (CO<sub>2</sub>) out of the atmosphere, and solar radiation management (SRM) to deflect solar radiation. Spraying the stratosphere with chemical and biological particulates actually traps heat in the lower atmosphere, making it a giant greenhouse. The warming, in turn, causes climate feedback loops that include methane and carbon expulsion. These greenhouse gases get trapped in the lower atmosphere by the particulates, causing additional heating. After that, even more heat gets sealed in the lower atmosphere, heating the planet further. The cycle continues until the planet is hundreds of degrees Fahrenheit and it furthers these objectives: chemical and biological warfare against citizens, environmental destruction, microwave technology usage, ionospheric heater enhancement and supporting laws and taxes. The amount of time the aerosols remain in the sky depends on content, humidity, temperature, air pressure, and other factors. The grid lines eventually expand and join to form a silver-grey chemical and biological haze that covers the whole sky. This cloud of toxins falls to the earth, where it ends up in the air, soil, and water.

The UK Government has [acknowledged](#) this 'proposed' programme of geoengineering, known as both SRM (Solar Radiation Management) and S.A.I (Stratospheric Aerosol Injection). According to sites such as [Chemtrail Project UK](#), independent labs are detecting toxic levels of aluminum, barium, magnesium and other high levels of conductive and heavy metals elements as well as unknown biological components and nano material in rainwater samples ending in tap water, whilst soil pH levels are reading lower than normal – meaning a potential infertile future soil. The dramatic reduction in bee numbers seen in recent years is also believed to be possibly linked to aerosol spraying. A 2009 Department of Energy and Climate Change (DECC) report titled [Geoengineering options for-mitigating climate change](#) proposes the same aerosol spraying ideas but admitted the impacts, costs and risks involved to health and the environment could not be known. geoengineering/aerosol spraying programmes are being implemented outside of any legal framework, national or international, without the knowledge or informed consent of the populations, and in violation of the most elementary scientific and health precautionary principles.

Rosalind Peterson from California Skywatch was a certified U.S.D.A. Farm Service Agency Crop Loss Adjustor working in more than ten counties throughout California. She now spearheads a watchdog group that monitors

uncontrolled experimental weather modification programs, atmospheric heating and testing programs, and ocean and atmospheric experimental geoengineering programs. Peterson is at the forefront of the chemtrail research field and how the unexplained patterns that scar our skies are "causing detrimental human health effects and environmental degradation."

She addresses the United Nations on September 3-5, 2007 in New York at the 60th Annual DPI/NGO Conference on Climate Change informing about chemtrails, geo-engineerin SRM in the following video: <https://youtu.be/o7g9oiyXuR8>.

### ShortTerm Effects

The immediate and short-term medical conditions caused by SAI have been described as chemtrail sickness. The ones that are reported during and after fallouts, include:

- sinus pain
- nosebleeds
- dizziness
- confusion
- depression
- anxiety
- fatigue
- cracking joints
- blurred vision
- respiratory problems • heart fibrillation
- memory loss
- dry cough
- itching
- tinnitus

It was announced in the Las Vegas Tribune in August 2005 that emergency rooms all over the US are packed days after SAI. "Community after community," the Alpenhorn News echoed in February of 2006, "continues to report that hundreds of people are becoming ill at the same time, and these reports usually follow heavy chemtrail activity."

### LongTerm Effects

These fallouts are supposedly causing chronic medical conditions, such as:

- lung cancer
- Huntington's Disease
- Autism Spectrum Disorder (ASD)



- migraine headaches
- Parkinson's Disease
- arthritis
- hypertension
- heart disease
- chronic bronchitis
- diabetes
- asthma
- Morgellons Disease
- Amyotrophic Lateral Sclerosis (ALS) • flu-like symptoms
- cramps
- chronic fatigue
- skin disorders
- immune system decline
- Alzheimer's Disease

The ocean, which is the primary producer of oxygen on the planet, is in a state of swift atrophy. Phytoplankton are the foundation of the ocean's ecosystem. They produce half of the organic matter on the planet, and consume carbon which they convert into oxygen.

Aquatic life, however, is highly susceptible to excessive ultraviolet exposure. Because more ultraviolet rays are reaching the ocean, phytoplankton and the microorganisms they eat are being killed. As a result, all of the creatures that eat them are dying. This is disrupting the entire food chain.

Scientists at the National Oceanic and Atmospheric Administration reported in November of 2013, that since 1950 almost 1/2 of the global phytoplankton stocks have been killed.

Less plankton means less carbon dioxide absorption and less oxygen production, which is causing the atmospheric oxygen content to decline all over the world. The ocean is also a carbon and methane sink. The warming of the ocean is releasing a store of methane at the bottom, which is rapidly acidifying it.

The ocean is about 29% more acidic than it was 200 years ago. The acidity is also affecting the phytoplankton, causing the ocean to plummet even more. Because the ocean's ecosystem has been disrupted, there will be mass aquatic animal deaths, from phytoplankton to whales.

However, it is not just the ocean that is affected. It was reported in National Geographic News and CNN in May of 2003, that over 90% of the ocean's pelagic fish stocks have died since 1950. These are the surface-water fish that we eat. They include: swordfish, tuna, marlin, cod, flounder, etc.

NBC News reported in June 2010 that American scientists found “stunningly high” levels of cadmium, aluminum, mercury, titanium, lead, and chromium in blood samples taken from 1,000 whales.

## ARTICLES AND VIDEOS

- Microwaves and the Consequences to Our Health, Barry Trower [https://youtu.be/z99\\_SzoXZdY](https://youtu.be/z99_SzoXZdY).
- ICAACT- Microwave Technology Use on People. <https://youtu.be/aMMEQNnSZIo>

<http://www.theguardian.com/environment/2012/feb/06/bill-gates-climate-scientists-geoengineering>

# Bill Gates backs climate scientists lobbying for large-scale geoengineering

Other wealthy individuals have also funded a series of reports into the future use of technologies to geoengineer the climate

- [What is geo-engineering?](#)
- [Scientists criticise handling of geoengineering pilot project](#)

A small group of leading climate scientists, financially supported by billionaires including [Bill Gates](#), are lobbying governments and international bodies to back experiments into manipulating the climate on a global scale to avoid catastrophic climate change.

The scientists, who advocate geoengineering methods such as spraying millions of tonnes of reflective particles of sulphur dioxide 30 miles above earth, argue that a "plan B" for climate change will be needed if the UN and politicians cannot agree to making the necessary cuts in greenhouse gases, and say the US government and others should pay for a major programme of international research.

Solar geoengineering techniques are highly controversial: while some climate scientists believe they may prove a quick and relatively cheap way to slow global warming, others fear that when conducted in the upper atmosphere, they could irrevocably alter rainfall patterns and interfere with the earth's climate.

Geoengineering is opposed by many environmentalists, who say the technology could undermine efforts to reduce emissions, and by developing countries who fear it could be used as a weapon or by rich countries to their advantage. In 2010, the [UN Convention on Biological Diversity](#) declared a [moratorium](#) on experiments in the sea and space, [except for small-scale scientific studies](#).

Concern is now growing that the small but influential group of scientists, and their backers, may have a disproportionate effect on major decisions about geoengineering research and policy.

"We will need to protect ourselves from vested interests [and] be sure that choices are not influenced by parties who might make significant amounts of money through a choice to modify

climate, especially using proprietary intellectual property," said Jane Long, director at large for the Lawrence Livermore National Laboratory in the US, in a paper delivered to a recent geoengineering conference on ethics.

"The stakes are very high and scientists are not the best people to deal with the social, ethical or political issues that geoengineering raises," said Doug Parr, chief scientist at Greenpeace. "The idea that a self-selected group should have so much influence is bizarre."

Pressure to find a quick technological fix to climate change is growing as politicians fail to reach an agreement to significantly reduce emissions. In 2009-2010, the [US government received requests for over \\$2bn](#)(£1.2bn) of grants for geoengineering research, but spent around \$100m.

As well as Gates, other wealthy individuals including Sir [Richard Branson](#), tar sands magnate [Murray Edwards](#) and the co-founder of Skype, Niklas Zennström, have funded a series of official reports into future use of the technology. Branson, who has frequently called for geoengineering to combat climate change, helped fund the Royal Society's inquiry into solar radiation management last year through his [Carbon War Room](#) charity. It is not known how much he contributed.

Professors [David Keith](#), of Harvard University, and [Ken Caldeira](#) of Stanford, [see footnote] are the world's two leading advocates of major research into geoengineering the upper atmosphere to provide earth with a reflective shield. They have so far received over \$4.6m from Gates to run the [Fund for Innovative Climate and Energy Research](#) (Ficer). Nearly half Ficer's money, which comes directly from Gates's personal funds, has so far been used for their own research, but the rest is disbursed by them to fund the work of other advocates of large-scale interventions.

According to statements of financial interests, Keith receives an

undisclosed sum from Bill Gates each year, and is the president and majority owner of the geoengineering company [Carbon Engineering](#), in which both Gates and Edwards have major stakes – believed to be together worth over \$10m. Another Edwards company, Canadian Natural Resources, has plans to spend \$25bn to turn the bitumen-bearing sand found in northern Alberta into barrels of crude oil. Caldeira says he receives \$375,000 a year from Gates, holds a carbon capture patent and works for [Intellectual Ventures](#), a private geoengineering research company part-owned by Gates and run by Nathan Myhrvold, former head of technology at Microsoft.

According to the latest Ficer accounts, the two scientists have so far given \$300,000 of Gates money to part-fund three prominent reviews and assessments of geoengineering – the [UK Royal Society report on Solar Radiation Management](#), the [US Taskforce on Geoengineering](#) and a 2009 [report by Novin](#) a science thinktank based in Santa Barbara, California. Keith and Caldeira either sat on the panels that produced the reports or contributed evidence. All three reports strongly recommended more research into solar radiation management.

The fund also gave \$600,000 to Phil Rasch, chief climate scientist for the [Pacific Northwest national laboratory](#), one of 10 research institutions funded by the US energy department.

Rasch gave evidence at the first Royal Society [report on geoengineering 2009](#) and was a panel member on the 2011 report. He has testified to the US Congress about the need for government funding of large-scale geoengineering. In addition, Caldeira and Keith gave a further \$240,000 to geoengineering advocates to travel and attend workshops and meetings and \$100,000 to Jay Apt, a prominent advocate of geoengineering as a last resort, and professor of engineering at Carnegie Mellon University. Apt worked with Keith and [Aurora Flight Sciences](#), a US company that develops drone aircraft technology for the US military, to [study the costs of sending 1m](#)

tonnes of sulphate particles into the upper atmosphere a year.

Analysis of the eight major national and international inquiries into geoengineering over the past three years shows that Keith and Caldeira, Rasch and [Prof Granger Morgan](#) the head of department of engineering and public policy at Carnegie Mellon University where Keith works, have sat on seven panels, including one set up by the UN. Three other strong advocates of solar radiation geoengineering, including Rasch, have sat on national inquiries part-funded by Ficer.

"There are clear conflicts of interest between many of the people involved in the debate," said Diana Bronson, a researcher with Montreal-based geoengineering watchdog ETC.

"What is really worrying is that the same small group working on high-risk technologies that will geoengineer the planet is also trying to engineer the discussion around international rules and regulations. We cannot put the fox in charge of the chicken coop."

## Russia urges UN climate report to include geoengineering

The Russian government is asking for 'planet hacking' to be included in the climate science report, leaked documents show

[Martin Lukacs](#), [Suzanne Goldenberg](#) and [Adam Vaughan](#)

Thursday 19 September 2013 17.00 BST

Last modified on Saturday 16 January 2016 09.30 GMT

This article is 2 years old

Shares

10k

Comments

171

Not logged in [Save for later](#)

[Russia](#) is pushing for next week's landmark UN climate science report to include support for controversial technologies to geoengineer the planet's climate, according to documents obtained by the Guardian.

As climate scientists prepare to gather for the [Intergovernmental Panel on Climate Change \(IPCC\)](#) in Stockholm to present the most authoritative state of climate science to date, it has emerged the Russian government is asking for "planet hacking" to be included in the report. The IPCC has not included geoengineering in its major assessments before.

The documents seen by the Guardian show Russia is asking for a conclusion of the report to say that a "possible solution of this [climate change] problem can be found in using of [sic] geoengineering methods to stabilise current climate." Russia also highlighted that its scientists are developing geoengineering technologies.

[Geoengineering](#) aims to cool the Earth by methods including spraying sulphate aerosols into the stratosphere to reflect sunlight, or fertilising the oceans with iron to create carbon-capturing algal blooms.

Such ideas are increasingly being discussed by western scientists and governments as a plan B for addressing climate change, with the new astronomer royal, Professor Sir Martin Rees, [calling last week](#) for such methods to buy time to develop sources of clean energy. But the techniques [have been criticised](#) as a way for powerful, industrialised nations to dodge their commitments to reduce carbon emissions.

Some modelling has shown geoengineering could be effective at reducing the Earth's temperature, but manipulation of sensitive planetary systems in one area of the world could also result in drastic unintended consequences globally, such as radically disrupted rainfall.

Responding to efforts to [discredit the climate science with a spoiler campaign](#) in advance of the report, the chairman of the IPCC, Rajendra K Pachauri, said he was confident the high standards of the science in the report would make the case for climate action. He said: "There will be enough information provided so that rational people across the globe will see that action is needed on climate change."

The Russian scientist Yuri Izrael, who has participated in IPCC geoengineering expert groups and was an adviser to the former Russian president Vladimir Putin, conducted an experiment in 2009 that sprayed particles from a helicopter to assess how much sunlight was blocked by the aerosol plume. [A planned test in Britain](#) that would have used a balloon attached to a 1km hose to develop equipment for spraying was prevented after a public outcry.

Observers have suggested that Russia's admission that it is developing geoengineering may put it in violation of the UN moratorium on geoengineering projects established at the Biodiversity Convention in 2010 and should be discussed on an emergency basis when the convention's scientific subcommittee meets in Montreal in October.

Civil society organisations [have previously raised concerns](#) that expert groups writing geoengineering sections of the IPCC report were dominated by US, UK and Canadian geoengineering advocates who have called for public funding of large-scale experiments or who have taken out commercial patents on geoengineering technologies. One scientist who served as a group co-chair, David Keith of Harvard University, runs a private geoengineering company, [has planned tests in New Mexico](#), and is publicising a new book called The Case for



## Climate Engineering.

Nearly 160 civil society, indigenous and environmental organisations signed a letter in 2011 urging caution and calling on the IPCC not to legitimise geoengineering.

Silvia Ribeiro, Latin America director of the technology watchdog ETC Group, said: "We have been warning that a few geoengineering advocates have been trying to hijack the IPCC for their agenda. We are now seeing a deliberate attempt to exploit the high profile and credibility of this body in order to create more mainstream support for extreme climate engineering. The public and policymakers need to be on guard against being steamrollered into accepting dangerous and immoral interventions with our planet, which are a false solution to climate change. Geoengineering should be banned by the UN general assembly."

Matthew Watson, a senior lecturer at the University of Bristol's Earth sciences department and one of the team behind the cancelled balloon project, said: "In general ought the IPCC to be thinking about geoengineering? Yes. But do I want to see unilateralism or regionalism affect the debate? Certainly not. The people who don't like geoengineering will suggest the IPCC is a method for normalising it."

He added: "The IPCC has to be very careful about how it handles this [geoengineering] because it is clearly a very significant output that people are very mindful of."

While the IPCC is intended to be a scientific advisory panel, government delegates have been reviewing the summary report and make final decisions about it in Stockholm at the end of the month.

Sweden, Norway and Germany expressed more scepticism about geoengineering and asked that the report underline its potential dangers.

"The information on geoengineering options is too optimistic as it does not appropriately reflect the current lack of knowledge or

the high risks associated with such methods," noted the German government.

Geoengineering is expected to play a much larger role in the next IPCC reports coming out in 2014. Observers were surprised that it had turned up in this first major report – meant to assess physical science rather than mitigation strategies. Russia's climate negotiators did not respond to a request for comment.

<http://www.theguardian.com/news/2014/apr/11/weatherwatch-aurora-borealis-radio-radar-interference>

## Weatherwatch: Taming the aurora



The aurora borealis over the HAARP antennae in Alaska. Photograph: DARPA

**David Hambling**

Friday 11 April 2014 21.30 BST



conspiracy theorists have long claimed that the High-Frequency Active Auroral Research Program (HAARP) is used to manipulate the weather. Starting this year, they are right. The [US Defence Advanced Research Project Agency](#)'s plans for the coming year include "Test active control of ionospheric geomagnetic substorm evolution process."

These substorms are not the sort that involve wind and rain, but are closely related to the northern lights, far above what we usually think of as weather.

The main instrument at HAARP is an array of a hundred and eighty antennae spread over thirty-three hectares near Gakona, Alaska like a gigantic art installation. They can project radio energy into the ionosphere, 80 to 600 kilometres above us. This will tweak disturbances called substorms which occur several times a day in the upper atmosphere. The project goes by the appetising name of [Basic Research on Ionospheric Characteristics and Effects](#), or BRIOCHE.

Substorms make the aurora borealis dance with sudden brightenings and rapid movement; without them the aurora would be a lifeless, static display. Researchers believe substorms occur when Earth's magnetic field lines snap back after being stretched into space.

Manipulating substorms is not just about cosmic light shows. Radio emissions from auroras interfere with some radar and radio systems, including those used for communicating with submarines. HAARP may be able to reduce this interference, or modulate it, turning the ionosphere into a giant radio transmitter sending signals across vast distances.

<http://www.theguardian.com/us-news/shortcuts/2015/feb/16/can-the-cia-weaponise-the-weather-geoengineering>

# Can the CIA weaponise the weather?

A leading climate-change scientist has warned that the US secret service's interest in geoengineering technology may not be benign. But it's not the first time a government has tried to control weather patterns

U

sing the weather as a weapon to subjugate the globe sounds like the modus operandi of a James Bond villain, but a senior climate scientist [has expressed concern](#) over the US intelligence services' apparent interest in geoengineering.

[Geoengineering](#) seeks to combat climate change by removing carbon dioxide from the atmosphere or by increasing the reflectivity of the earth – with clouds or even space dust – to reduce the sun's warmth.

It is criticised by [many environmental activists, including Naomi Klein](#), for suggesting that a simple techno-fix for global warming is just around the corner but geoengineering may have a more sinister side.

Alan Robock, who studied [the potential impact of a nuclear winter](#) in the 1980s, raised alarm over [CIA's part-funding of a National Academy of Sciences report](#) on different approaches to combating climate change, and the fact that the CIA hasn't explained its interest in geoengineering.

Weaponising the weather is nothing new. UK government documents showed that, 99 years ago, one of six trials at the experimental military station of Orford Ness in Suffolk sought to produce artificial clouds, which, it was hoped would bamboozle German flying machines during the first world war.



## Spy agencies fund climate research in hunt for weather weapon, scientist fears

[Read more](#)

Like so many military experiments, these trials failed but cloud seeding became a reality in 1967/8 when the US's Operation Popeye increased rainfall by an estimated 30% over parts of Vietnam in an attempt to reduce the movement of soldiers and resources into South Vietnam.

In recent years, the US military's [HAARP](#) research programme has sown a blizzard of theories about how this secretive Alaskan facility [has manipulated weather patterns](#) with its investigation of the ionosphere. If HAARP really was so successful, it would probably [not be closing this year](#).

The argument that if we grasped how to control the climate then evildoers would already be doing it doesn't hold water with conspiratorial thought, however. Some believe the weather is already being shaped by "chemtrails" – [aeroplane contrails deliberately laced with toxic chemicals](#) – and mysterious weather warmongers are, for reasons unknown, making the

eastern US unbearably chilly and California stricken by drought. Climate scientists [dismiss such theories](#) and evidence such as the long list of patents for [climate-altering tools](#) tends to demonstrate the boundless scope of the human imagination rather than the more limited reach of operational technology.

Robock is right to raise concerns over who will control any climate-shaping technologies that are proven to work but the omens from James Bond are good. Filming of the new Bond, Spectre, was [disrupted earlier this month by strong winds in snowy Austria](#).

If there is a weather god, we aren't it, yet.

The report concluded that while small-scale research projects were needed, the technologies were so far from being ready that reducing carbon emissions remained the most viable approach to curbing the worst extremes of climate change. A [report by the Royal Society in 2009](#) made similar recommendations.

The \$600,000 report was part-funded by the US intelligence services, but Robock said the CIA and other agencies had not fully explained their interest in the work.

"The CIA was a major funder of the National Academies report so that makes me really worried who is going to be in control," he said. Other funders included Nasa, the US Department of Energy, and the National Oceanic and Atmospheric Administration.

The [CIA established the Center on Climate Change and National Security](#) in 2009, a decision that drew fierce criticism from some Republicans who viewed it as a distraction from more pressing terrorist concerns. The centre was closed down in 2012, but the agency said it would continue to monitor the humanitarian consequences of climate change and the impact on US economic security, albeit not from a dedicated office.

Robock said he became suspicious about the intelligence

agencies' involvement in climate change science after receiving a call from two men who claimed to be CIA consultants three years ago. "They said: 'We are working for the CIA and we'd like to know if some other country was controlling our climate, would we be able to detect it?' I think they were also thinking in the back of their minds: 'If we wanted to control somebody else's climate could they detect it?'"

He replied that if a country wanted to create a stratospheric cloud large enough to change the climate, it would be visible with satellites and ground-based instruments. The use of the weather as a weapon was banned in 1978 under the [Environmental Modification Convention \(Enmod\)](#).

Asked how he felt about the call, Robock said he was scared. "I'd learned of lots of other things the CIA had done that didn't follow the rules. I thought that wasn't how my tax money was spent," he said. The CIA did not respond to requests for comment over the weekend.

The US dabbled in weather modification before Enmod was introduced. In the early 1960s, researchers on Project Storm Fury seeded thunderstorms with various particles in the hope of diminishing their destructive power. A similar process was adopted during the Vietnam war, with clouds seeded over the Ho Chi Minh trail in a bid to make the major supply route for North Vietnamese foot soldiers too muddy to pass.

"I think this research should be out in the open and it has to be international so there won't be any question that this technology will be used for hostile purposes," Robock said.

<http://www.theguardian.com/environment/2014/nov/26/geoengineering-could-offer-solution-last-resort-climate-change>

## Reflecting sunlight into



# space has terrifying consequences, say scientists

But ‘geoengineers’ say urgent nature of climate change means research must continue into controversial technology to combat rising temperatures

Fighting global warming by reflecting sunlight back into space risks “terrifying” consequences including droughts and conflicts, according to three major new analyses of the promise and perils of [geoengineering](#). But research into deliberately interfering with the climate system must continue in search of technology to use as a last resort in combating climate change, scientists have concluded.

Billions of people would suffer worse floods and droughts if technology was used to block warming sunlight, the research found. Technology that sucks carbon dioxide from the air was less risky, the analysis concluded, but will take many more decades to develop and take effect.

The carbon emissions that cause climate change are continuing to rise and, without sharp cuts, the world is set for “[severe, widespread, and irreversible impacts](#)”. This has led some to propose geoengineering but others have warned that unforeseen impacts of global-scale action to try to counteract warming could make the situation worse.

Matthew Watson, at the University of Bristol, who led one of the studies in the £5m research programme, said: “We are sleepwalking to a disaster with climate change. Cutting emissions is undoubtedly the thing we should be focusing on but it seems to be failing. Although geoengineering is terrifying



to many people, and I include myself in this, [its feasibility and safety] are questions that have to be answered.”

Watson led the [Stratospheric Particle Injection for Climate Engineering](#) (Spice) project, which [abandoned controversial attempts to test spraying droplets into the atmosphere](#) from a balloon in 2012. But he said on Wednesday: “We will have to go outside eventually. There are just some things you cannot do in the lab.”

Prof Steve Rayner at the University of Oxford, who led the [Climate Geoengineering Governance project](#), said the research showed geoengineering was “neither a magic bullet nor a Pandora’s box”.

But he said global security would be threatened unless an international treaty was agreed to oversee any sun-blocking projects. “For example, if India had put sulphate particles into the stratosphere, even as a test, two years before the recent floods in Pakistan, no one would ever persuade Pakistan that that had not caused the floods.”

The researchers examined two types of geoengineering, solar radiation management (SRM) and carbon dioxide removal (CDR). Prof Piers Forster, at the University of Leeds, led a [project using in-computer models to assess six types of SRM](#). All reduced temperatures but all also worsened floods or droughts for 25%-65% of the global population, compared to the expected impact of climate change:

- mimicking a volcano by spraying sulphate particles high into the atmosphere to block sunlight adversely affected 2.8bn people

- spraying salt water above the oceans to whiten low clouds and reflect sunlight adversely affected 3bn people

- thinning high cirrus clouds to allow more heat to escape Earth adversely affected 2.4bn people

- generating microbubbles on the ocean surface to whiten it

and reflect more sunlight adversely affected 2bn people  
covering all deserts in shiny material adversely affected  
4.1bn people  
growing shinier crops adversely affected 1.4bn people

The adverse effect on rainfall results from changed differences in temperature between the oceans and land, which disrupts atmospheric circulation, particularly the monsoons over the very populous nations in SE Asia. Nonetheless, Forster said: "Because the [climate change] situation is so urgent, we do have to investigate the possibilities of geoengineering."

Rayner said SRM could probably be

done within two decades, but was difficult to govern and the side effects would be damaging. He noted that SRM does not remove carbon from the air, so only masks climate change.

"People decry doing SRM as a band aid, but band aids are useful when you are healing," he said.

In contrast, CDR tackles the root of the climate change problem by taking CO<sub>2</sub> out of the atmosphere, would be much easier to govern and would have relatively few side effects. But Rayner said it will take multiple decades to develop CDR technologies and decades more for the CO<sub>2</sub> reductions to produce a cooling effect. "You are going to have to build an industry to reverse engineer 200 years of fossil fuel industry, and on the same huge scale," he said.

The recent landmark report by the UN Intergovernmental Panel on Climate Change (IPCC), signed off by 194 governments, placed strong emphasis on a potential technology called bioenergy carbon capture and storage (BECCS) as a way to pull CO<sub>2</sub> from the atmosphere. It would involve burning plants and trees, which grow by taking CO<sub>2</sub> from the air, in power plants and then capturing the CO<sub>2</sub> exhaust and burying it underground.

"But if you are going to do BECCS, you are going to have to

grow an awful lot of trees and the impact on land use may have very significant effects on food security,” said Rayner. He added that the potential costs of both SRM or CDR were very high and, if the costs of damaging side effects were included, looked much more expensive than cutting carbon emissions at source.

Both Watson and Rayner said the international goal of keeping warming below the “dangerous” level of 2C would only be possible with some form of geoengineering and that research into such technology should continue.

“If we found any [geoengineering] technology was safe, affordable and effective that could be part of a toolkit we could use to combat climate change,” said Rayner.

“If we ever deploy SRM in anger it will be the clearest indication yet that we have failed as planetary guardians,” said Watson. “It [would be] a watershed, fundamentally changing the way 7bn people interact with the world.”

An RF weapon currently under development is the high powered, very low frequency (VLF) modulator. Working in the 20–35 kHz spectrum, the frequency emits from a 1–2 meter antenna dish to form into a type of acoustic bullet. The weapon is especially convenient because the power level is easily adjustable. At its low setting, the acoustic bullet causes physical discomfort—enough to deter most approaching threats. Incrementally increasing the power nets an effect of nausea, vomiting and abdominal pains. The highest settings can cause a person's bones to literally explode internally. Aimed at the head, the resonating skull bones have caused people to hear 'voices'." under the guise of Operation PIQUE. Developed by the CIA, the plan was to bounce high powered radio signals off the ionosphere to affect the mental functions of people in selected areas, including Eastern European nuclear installations.”

The use of the ionosphere in the CIA's experiments reminds one of the possibilities now available with systems such as HAARP, which was developed 15 years later.

## Spy agencies fund climate research in hunt for weather

# weapon, scientist fears

US expert Alan Robock raises concern over who would control climate-altering technologies if research is paid for by intelligence agencies

A senior US scientist has expressed concern that the intelligence services are funding climate change research to learn if new technologies could be used as potential weapons. Alan Robock, a climate scientist at Rutgers University in New Jersey, has called on secretive government agencies to be open about their interest in radical work that explores how to alter the world's climate.

Robock, who has contributed to reports for the intergovernmental panel on climate change (IPCC), uses computer models to study how stratospheric aerosols could cool the planet in the way massive volcanic eruptions do. But he was worried about who would control such climate-altering technologies should they prove effective, he told the American Association for the Advancement of Science in San Jose.

Last week, the National Academy of Sciences published a [two-volume report](#) on different approaches to tackling climate change. One focused on means to remove carbon dioxide from the atmosphere, the other on ways to change clouds or the Earth's surface to make them reflect more sunlight out to space.



## Is geoengineering a bad idea?

[Read more](#)

The report concluded that while small-scale research projects were needed, the technologies were so far from being ready that reducing carbon emissions remained the most viable approach to curbing the worst extremes of climate change. A [report by the Royal Society in 2009](#) made similar recommendations.

The \$600,000 report was part-funded by the US intelligence services, but Robock said the CIA and other agencies had not fully explained their interest in the work.

“The CIA was a major funder of the National Academies report so that makes me really worried who is going to be in control,” he said. Other funders included Nasa, the US Department of Energy, and the National Oceanic and Atmospheric Administration.

The [CIA established the Center on Climate Change and National Security](#) in 2009, a decision that drew fierce criticism from some Republicans who viewed it as a distraction from more pressing terrorist concerns. The centre was closed down in 2012, but the agency said it would continue to monitor the

humanitarian consequences of climate change and the impact on US economic security, albeit not from a dedicated office. Robock said he became suspicious about the intelligence agencies' involvement in climate change science after receiving a call from two men who claimed to be CIA consultants three years ago. "They said: 'We are working for the CIA and we'd like to know if some other country was controlling our climate, would we be able to detect it?' I think they were also thinking in the back of their minds: 'If we wanted to control somebody else's climate could they detect it?'"

He replied that if a country wanted to create a stratospheric cloud large enough to change the climate, it would be visible with satellites and ground-based instruments. The use of the weather as a weapon was banned in 1978 under the [Environmental Modification Convention \(Enmod\)](#).

Asked how he felt about the call, Robock said he was scared. "I'd learned of lots of other things the CIA had done that didn't follow the rules. I thought that wasn't how my tax money was spent," he said. The CIA did not respond to requests for comment over the weekend.

The US dabbled in weather modification before Enmod was introduced. In the early 1960s, researchers on Project Storm Fury seeded thunderstorms with various particles in the hope of diminishing their destructive power. A similar process was adopted during the Vietnam war, with clouds seeded over the Ho Chi Minh trail in a bid to make the major supply route for North Vietnamese foot soldiers too muddy to pass.

"I think this research should be out in the open and it has to be international so there won't be any question that this technology will be used for hostile purposes," Robock said.

## **HAARP: Secret Weapon Used For Weather Modification, Electromagnetic Warfare**

By [Fred Burks](#)



Global Research, January 18, 2015

[Global Research and WantToKnow.info](http://GlobalResearchandWantToKnow.info) 1 August 2010

Theme: [Militarization and WMD](#)

In-depth Report: [Climate Change](#)



44.2K

Like 28K

1568 822

275

388K



*This article was first published on August 1, 2010*

“It isn’t just conspiracy theorists who are concerned about HAARP. The European Union called the project a global concern and passed a resolution calling for more information on its health and environmental risks. Despite those concerns, officials at HAARP insist the project is nothing more sinister than a radio science research facility.”

– Quote from [a TV documentary](#) on HAARP by the Canadian Broadcasting Corporation (CBC).

*HAARP (High Frequency Active Auroral Research Program) is a little-known, yet critically important U.S. military defense program which has generated quite a bit of controversy over the years in certain circles.* Though denied by HAARP officials, some respected researchers allege that secret electromagnetic warfare capabilities of HAARP are designed to forward the US military’s [stated goal](#) of achieving full-spectrum dominance by the year 2020. Others go so far as to claim that HAARP can and has been used for weather modification, to cause earthquakes and tsunamis, to disrupt global

communications systems, and more.

Major aspects of the program are kept secret for alleged reasons of “national security.” Yet there is no doubt that HAARP and electromagnetic weapons capable of being used in warfare do exist. According to the official [HAARP website](#), “HAARP is a scientific endeavor aimed at studying the properties and behavior of the ionosphere, with particular emphasis on being able to understand and use it to enhance communications and surveillance systems for both civilian and defense purposes.” The [ionosphere](#) is the delicate upper layer of our atmosphere which ranges from about 30 miles (50 km) to 600 miles (1,000 km) above the surface of the Earth.

The [HAARP website acknowledges](#) that experiments are conducted which use electromagnetic frequencies to fire pulsed, directed energy beams in order to “temporarily excite a limited area of the [ionosphere](#).” Some scientists state that purposefully disturbing this sensitive layer could have major and even disastrous consequences. Concerned HAARP researchers like [Dr. Michel Chossudovsky](#) of the University of Ottawa and Alaska’s [Dr. Nick Begich](#) (son of a US Congressman) present evidence suggesting that these disturbances can even cause tsunamis and earthquakes.

Two key major media documentaries, one by Canada’s public broadcasting network [CBC](#) and the other by the History Channel, reveal the inner workings of HAARP in a most powerful way. The very well researched CBC documentary includes this key quote:

“It isn’t just conspiracy theorists who are concerned about HAARP. In January of 1999, the European Union called the project a global concern and passed a resolution calling for more information on its health and environmental risks. Despite those concerns, officials at HAARP insist the project is nothing more sinister than a radio science research facility.”

To view the European Union (EU) document which brings HAARP and similar [electromagnetic weapons](#) into question, [click here](#). The actual wording at bullet point 24 in this telling document states that the EU “considers HAARP by virtue of its far-reaching impact on the environment to be a global concern and calls for its legal, ecological and ethical implications to be examined by an international independent body before any further research and testing.” This reveling document further states that the EU regrets the repeated



refusal of the U.S. government to send anyone to give evidence on HAARP.

*To watch this engaging 15-minute CBC documentary online, [click here](#). For an even more detailed and revealing 45-minute History Channel documentary on HAARP and other secret weapons used for electromagnetic warfare, [click here](#).* Below are two quotes from the History Channel documentary:

“Electromagnetic weapons ... pack an invisible wallop hundreds of times more powerful than the electrical current in a lightning bolt. One can blast enemy missiles out of the sky, another could be used to blind soldiers on the battlefield, still another to control an unruly crowd by burning the surface of their skin. If detonated over a large city, an electromagnetic weapon could destroy all electronics in seconds. They all use directed energy to create a powerful electromagnetic pulse.”

“Directed energy is such a powerful technology it could be used to heat the ionosphere to turn weather into a weapon of war. Imagine using a flood to destroy a city or tornadoes to decimate an approaching army in the desert. The military has spent a huge amount of time on weather modification as a concept for battle environments. If an electromagnetic pulse went off over a city, basically all the electronic things in your home would wink and go out, and they would be permanently destroyed.”

For those who still doubt that such devastating secret weapons have been developed, here is an intriguing quote from [an article](#) in New Zealand’s leading newspaper, the *New Zealand Herald*:

“Top-secret wartime experiments were conducted off the coast of Auckland to perfect a tidal wave bomb, declassified files reveal. United States defence chiefs said that if the project had been completed before the end of the war, it could have played a role as effective as that of the atom bomb. Details of the tsunami bomb, known as [Project Seal](#), are contained in 53-year-old documents released by the Ministry of Foreign Affairs and Trade.”

*If the military secretly developed a weapon which could cause a tsunami over half a century ago, what kind of advanced deadly weapons might be available now? And why is it that the general public still doesn’t know about secret weapons developed over 50 years ago? To understand why the media isn’t covering these highly critical issues, [click here](#).* Clearly the military has the

capability to cause a tsunami and likely to cause earthquakes and hurricanes, as well. It's time for us to take action to spread the word on this vital topic.

Having interpreted to for top generals in [my work as a language interpreter](#) with the US Department of State, I learned that military planners are always interested in developing the most devastating weapons possible. Yet these weapons are kept secret as long as possible, allegedly for reasons of national security. The many layers of intense secrecy both in the military and government result in very few people being aware of the gruesome capabilities for death and destruction that have been developed over the years. There are many examples of major defense projects kept successfully out of the public's eyes for years and even decades.

The massive [Manhattan Project](#) (development of the first atomic bomb) is one such example. The building of an entire city to support the project in Oak Ridge, Tennessee was [successfully kept secret](#) even from the state's governor. The stealth bomber was kept top secret for many years, and the public still has no way of knowing it's full capabilities. It is through the use of the highly organized military and intelligence services that the [power elite](#) of our world, working in cooperation with key allies in government and corporate ownership of the media, are able to carry out major cover-ups and secret operations like those involved with HAARP.

Some researchers have raised questions about the [possible involvement](#) of HAARP in major disasters like the earthquake in Haiti, Indonesian tsunami, and hurricane Katrina. Could these have been HAARP experiments gone awry? Might they even have been caused by rogue elements which gained control of this devastating technology. Of course disasters like this happen regularly on a natural basis, yet if you begin to research, there is some high strangeness around some of these disasters. The evidence is inconclusive, yet with the known and unknown major destructive capabilities of this weapon, serious questions remain.

Jesse Ventura, the former Navy Seal who turned pro wrestler only to then become governor of Minnesota, has also done a special on HAARP that is a bit sensationalized, yet contains useful information. You can watch this special on YouTube at [this link](#).

The original source of this article is [Global Research and WantToKnow.info](#)

Copyright © [Fred Burks](#), [Global Research and WantToKnow.info](#), 2015

# CORPUS

[Europarl](#) > [Activities](#) > [Plenary sessions](#) > [Texts Adopted by Parliament](#)MENU

## Minutes of 28/01/1999 - Final Edition

### Environment, security and foreign affairs

[A4-0005/1999](#)

#### **Resolution on the environment, security and foreign policy *The European Parliament,***

- having regard to the motion for a resolution tabled by Mrs Rehn on the potential use of military-related resources for environmental strategies (B4-0551/95),
- having regard to the UN study 'Charting potential uses of resources allocated to military activities for civilian endeavours to protect the environment', UN (A46/364, 17 September 1991),
- having regard to its resolution of 29 June 1995 on anti-personnel landmines: a murderous impediment to development<sup>(1)</sup>,
- having regard to its previous resolutions on non-proliferation and the testing of nuclear weapons and the Canberra Commission report of August 1996 on the abolition of nuclear weapons,
- having regard to the International Court's unanimous ruling on the obligation of the nuclear weapon states to negotiate for a ban on nuclear weapons (Advisory Opinion No. 96/22 of 8 July 1996),
- having regard to its opinion of 19 April 1996 on the proposal for a Council Decision establishing a Community action programme in the field of civil protection (COM(95)0155 - C4-0221/95 - 95/0098(CNS))<sup>(2)</sup>,
- having regard to its earlier resolutions on chemical weapons,
- having regard to the outcome of the UN Conferences in Kyoto in 1997 and Rio de Janeiro in 1992,
- having regard to the hearing on HAARP and Non-lethal Weapons held by its Foreign Affairs Subcommittee on Security and Disarmament in Brussels on 5 February 1998,
- having regard to Rule 148 of its Rules of Procedure,
- having regard to the report of the Committee on Foreign Affairs, Security and Defence Policy and the opinion of the Committee on the Environment, Public Health and Consumer Protection ([A4-0005/1999](#)),

A. whereas the end of the Cold War has radically changed the security situation in the world and whereas the relaxation of military tension has resulted in comprehensive disarmament in the military field in general and in nuclear weapons in particular, resulting in considerable cut-backs in defence budgets,

B. whereas, despite this complete transformation of the geostrategic situation since the end of the Cold War, the risk of catastrophic damage to the integrity and sustainability of the global environment, notably its bio-diversity, has not significantly diminished, whether from the accidental or unauthorised firing of nuclear weapons or the authorised use of nuclear weapons based on a perceived but unfounded threat of

impending attack,

C. whereas this risk could be very considerably reduced within a very short timeframe by the rapid implementation by all nuclear weapons states of the six steps contained in the Canberra Commission's report concerning, in particular, the removal of all nuclear weapons from the present "hair trigger alert" readiness and the progressive transfer of all weapons into strategic reserve,

D. whereas Article VI of the 1968 Treaty on the Proliferation of Nuclear Weapons (NPT) commits all of its parties to undertake "to pursue negotiations in good faith on a treaty on general and complete disarmament" and whereas the Principles and Objectives adopted at the 1995 NPT Conference reaffirmed that the Treaty's ultimate goal was the complete elimination of nuclear weapons,

E. whereas threats to the environment, the flow of refugees, ethnic tension, terrorism and international crime are new and serious threats to security; whereas the ability to deal with various forms of conflict is increasing in importance as the security scene changes,

F. whereas the world's resources are being exploited as if they were inexhaustible, which has led to increasingly frequent natural and environmental disasters; whereas such local and regional ecological problems may have considerable impact on international relations; regretting that this has not been more clearly reflected in national foreign, security and defence policies,

G. whereas conflicts throughout the world are predominantly at an intra-state rather than inter-state level and, where inter-state conflicts do arise, they are increasingly concerned with access to or the availability of basic vital resources, especially water, food and fuel,

H. whereas the access to and availability of such vital natural resources are inherently connected to environmental degradation and pollution, by both cause and effect, whereas it follows logically therefore that conflict prevention must increasingly focus on these issues,

I. whereas all those factors, which affect the poorest and most vulnerable populations of the world most of all, are constantly increasing the incidence of so-called 'environmental refugees', resulting both in direct pressure on EU immigration and justice policies, on development assistance and spending on humanitarian aid and, indirectly, in increased security problems for the EU in the form of regional instability in other parts of the world,

J. whereas, according to detailed international research collated and published by the Climate Institute in Washington, the number of 'environmental refugees' now exceeds the number of 'traditional refugees' (25 m compared with 22 m) and whereas this figure is expected to double by 2010 and could well rise by substantially more on a worst-case basis,

K. whereas, since the end of the Cold War, although the management of global issues has been largely stripped of the previously dominant ideological context and is now much less determined by the question of military balance, this has yet to be reflected in the UN's system of global governance by emphasising the coherence and effectiveness of both military and non-military components of security policy,

L. whereas, nonetheless, the emphasis of a growing proportion of the UN's work on global political and security issues is essentially non-military, and notably related to the relationship between trade, aid, the environment and sustainable development,

M. whereas there is an urgent need to mobilise adequate resources to meet the environmental challenge and whereas very limited resources are available for

environmental challenge and whereas very limited resources are available for environmental protection, for which reason a reappraisal of the use of existing resources is called for,

N. whereas as military resources have been released the armed forces have had a unique opportunity and ample capacity to support the civilian efforts to cope with the increasing environmental problems,

O. whereas military-related resources are by their nature national assets while the environmental challenge is global; whereas ways must therefore be found for international cooperation in the transfer and use of military resources for environmental protection,

P. whereas the short-term costs of environmental protection have to be seen in the light of the long-term cost of doing nothing in this field, and whereas there is an increasing need for a cost benefit analysis of various environmental strategies,

Q. whereas the common goal of restoring the world's damaged ecosystems cannot be achieved in isolation from the question of the fair exploitation of global resources and whereas there is a need to facilitate international technical cooperation and encourage the transfer of appropriate military-related technology,

R. whereas, despite the existing conventions, military research is ongoing on environmental manipulation as a weapon, as demonstrated for example by the Alaska-based HAARP system,

S. whereas the general disquiet over ecological decline and environmental crises requires the setting of priorities in the national decision-making process; whereas the individual countries must pool their efforts in response to environmental disasters,

1. Calls on the Commission to present to the Council and Parliament a common strategy, as foreseen by the Amsterdam Treaty, which brings together the CFSP aspects of EU policy with its trade, aid, development and international environmental policies between 2000 and 2010 so as to tackle the following individual issues and the relationships between them:

a) agricultural and food production and environmental degradation;

b) water shortages and transfrontier water supply;

c) deforestation and restoring carbon sinks;

d) unemployment, underemployment and absolute poverty;

e) sustainable development and climate change;

f) deforestation, desertification and population growth;

g) the link between all of the above and global warming and the humanitarian and environmental impact of increasingly extreme weather events;

2. Notes that preventive environmental measures are an important instrument of security policy; calls therefore on the Member States to define environmental and health objectives as part of their long-term defence and security assessments, military research and action plans;

3. Recognises the important part played by the armed forces in a democratic society, their national defence role and the fact that peace-keeping and peace-making initiatives can make a substantial contribution to the prevention of environmental damage;

4. Points out that atmospheric and underground nuclear tests have as a result of nuclear radiation fall-out distributed large quantities of radioactive cesium 137, strontium 90 and other cancer inducing isotopes over the whole planet and have caused considerable environmental and health damage in the test areas;

5. Calls on the Commission and the Council, given the fact that several parts of the world are threatened by the uncontrolled, unsafe and unprofessional storage and dumping of nuclear submarines and surface-vessels, as well as their radioactive fuel and leaking nuclear reactors, to take action, considering the high possibility that as a result large regions might soon start to be polluted by the radiation;

6. Demands also that an appropriate solution be found to deal with the chemical and conventional weapons which have been dumped after both World Wars in many places in the seas around Europe as an 'easy' solution to get rid of these stocks and that up to today nobody knows what might be the ecological results in the long run, in particular for the fish and for beach-life;

7. Calls on the Commission and the Council to contribute towards finding a solution to the problem that, as result of ongoing warfare in whole regions of Africa, human and agricultural structures have been ruined and therefore the lands are now subject to environmental disaster in particular by deforestation and erosion leading to desertification;

8. Calls on the military to end all activities which contribute to damaging the environment and health and to undertake all steps necessary to clean up and decontaminate the polluted areas;

***Use of military resources for environmental purposes***

9. Considers that the resources available to reverse or stem damage to the environment are inadequate to meet the global challenge; recommends therefore that the Member States seek to utilise military-related resources for environmental protection by:

a) considering which military resources can be made available to the United Nations on a temporary, long-term or stand-by basis as an instrument for international cooperation in environmental disasters or crises;

b) drawing up international and European protection programmes using military personnel, equipment and facilities made available under the Partnership for Peace for use in environmental emergencies;

c) incorporating objectives for environmental protection and sustainable development in their security concepts;

d) ensuring that their armed forces comply with specific environmental rules and that damage caused by them to the environment in the past is made good;

e) including environmental considerations in their military research and development programmes;

10. Urges the Commission, since practical experience in the field is limited, to:

a) establish the exchange of information on current national experience in environmental applications for military resources;

b) take action within the UN to facilitate the global dissemination of environmental data including such data obtained by the use of military satellites and other information-gathering platforms;

11. Calls on the Member States to apply civil environmental legislation to all military activities and to assume responsibility for, and pay for, the investigation, clean-up and decontamination of areas damaged by past military activity, so that such areas can be returned to civil use; this is especially important for the extensive chemical and conventional munition dumps along the coastlines of the EU;

12. Calls on all Member States to formulate environmental and health objectives and action plans so as to enhance the measures taken by their armed forces to protect the environment and health;

13. Calls on the governments of the Member States gradually to improve the protection of the environment by the armed forces by means of training and technical development and by giving all regular and conscript personnel basic training in environmental matters;

14. Considers that environmental strategies should be able to include monitoring the world environment, assessing the data thus collected, coordinating scientific work and disseminating information, exploiting relevant data from national observation and monitoring systems to give a continuous and comprehensive picture of the state of the environment;

15. Notes that the drastic fall in military expenditure could result in substantial problems in certain regions and calls on the Member States to step up their efforts to convert military production facilities and technologies to produce civil goods, and for civil applications, using national programmes and Community initiatives such as the KONVER programme;

16. Stresses the importance of stepping up preventive environmental work with a view to combating environmental and natural disasters;

17. Calls on the Council to do more to ensure that the USA, Russia, India and China sign the 1997 Ottawa Treaty, banning anti-personnel mines, without delay;

18. Believes that the EU should do more to help the victims of landmines and to support the development of mine clearance techniques, and that the development of mine clearance methods should be accelerated;

19. Calls on the Member States to develop environmentally-sound technology for the destruction of weapons;

20. Notes that one of the potentially most serious threats that exist on the EU's doorstep lies in the inadequate monitoring of waste from nuclear arms processing and of biological and chemical weapons stores and in the need for decontamination following military activity; stresses that it is important that the Member States actively promote increased international cooperation, for instance within the UN and the Partnership for Peace, with the aim of destroying such weapons in as environment-friendly a way as possible;

21. Takes the view that all further negotiations on the reduction and the eventual elimination of nuclear weapons must be based on the principles of mutual and balanced reduction commitments;

22. Takes the view that, given the particularly difficult circumstances afflicting the countries of the former Soviet Union, the threat to the global as well as local environment posed by the degradation of the condition of nuclear weapons and materials still held in those countries makes it an even more urgent priority to reach agreement on the further gradual elimination of nuclear weapons;

#### ***Legal aspects of military activities***

23. Calls on the European Union to seek to have the new 'non-lethal' weapons technology and the development of new arms strategies also covered and regulated by international conventions;

24. Considers HAARP (High Frequency Active Auroral Research Project) by virtue of its far-reaching impact on the environment to be a global concern and calls for its legal, ecological and ethical implications to be examined by an international independent body before any further research and testing; regrets the repeated refusal of the United States Administration to send anyone in person to give evidence to the public hearing or any subsequent meeting held by its competent committee into the environmental and public risks connected with the HAARP programme currently being funded in Alaska;

25. Requests the Scientific and Technological Options Assessment (STOA) Panel to agree to examine the scientific and technical evidence provided in all existing research findings on HAARP to assess the exact nature and degree of risk that HAARP poses both to the local and global environment and to public health generally;

26. Calls on the Commission to examine if there are environmental and public health implications of the HAARP programme for Arctic Europe and to report back to Parliament with its findings;

27. Calls for an international convention introducing a global ban on all developments and deployments of weapons which might enable any form of manipulation of human beings;

28. Calls on the Commission and the Council to work for the conclusion of international treaties to protect the environment from unnecessary destruction in the event of war;

29. Calls on the Commission and the Council to work towards the establishment of international standards for the environmental impact of peacetime military activities;

30. Calls on the Council to play an active part in the implementation of the proposals of the Canberra Commission and Article VI of the Non-Proliferation Treaty on nuclear disarmament;



31. Calls on the Council, and the British and French governments in particular, to take the lead within the framework of the NPT and the Conference on Disarmament with regard to the further negotiations towards full implementation of the commitments on nuclear weapons reductions and elimination as rapidly as possible to a level where, in the interim, the global stock of remaining weapons poses no threat to the integrity and sustainability of the global environment;

32. Calls on the Council, the Commission and the governments of the Member States to advocate the approach taken in this resolution in all further United Nations meetings held under the auspices of or in relation to the NPT and the Conference on Disarmament;

33. Calls on the Council and the Commission, in accordance with Article J.7 of the Treaty on European Union, to report to it on the Union's position concerning the specific points contained in this resolution within the context of forthcoming meetings of the United Nations, its agencies and bodies, notably the 1999 Preparatory Committee of the NPT, the Conference on Disarmament and all other relevant international fora;

o

o o

34. Instructs its President to forward this resolution to the Council, the Commission, the governments of the Member States of the European Union and to the United Nations.

[\(1\)](#) OJ C 183, 17.7.1995, p. 47.

## Q&A: Europe's Galileo project

S BO

S IBYL

By Jonathan Amos

BBC News science reporter

E IBYL

**Europe is building its own satellite-navigation system called Galileo. BBC News looks at why such a network is deemed necessary when there is already the US Global Positioning System (GPS).**

#### WHAT IS GALILEO?

Galileo will be a global network of at least 22 satellites providing precise timing and location information to users on the ground and in the air. Its development will cost billions of euros and it will become operational by the end of 2013. The investment makes Galileo one of the biggest space projects initiated in Europe. Galileo's first demonstrator spacecraft was launched on 28 December, 2005, and a second platform in April 2008. The job of these two spacecraft was to trial the in-orbit technologies needed to run Galileo. These include atomic clocks, the heart of any sat-nav system.

#### WHY DOES EUROPE WANT GALILEO?

European Space Agency project  
At least 22 satellites to be launched  
in batches  
Will work alongside US GPS and  
Russian Glonass systems  
Promises real-time positioning down  
to less than a metre  
Guaranteed under all but most  
extreme circumstances  
Suitable for safety-critical roles  
where lives depend on service

S ILIN

[Galileo demo sat to be despatched](#)

E ILIN

## E IBOX

On an important level, Galileo is a political project. Like Airbus and the Ariane rocket programme, the new sat-nav system will assert Europe's independence. It will give EU countries guaranteed access to a service that is currently provided by a foreign (US) power. GPS was initiated by the US military; and although it is highly unlikely its signals would be degraded or switched off in Europe, the Americans as owners have ultimate control. Yes, the service is free, but its continuity and quality come with no guarantees - which means it cannot be relied upon, certainly not for safety-of-life applications such as landing planes and controlling trains (not without an augmentation service). Galileo is intended to be a civil system. Eventually, it is likely it will be run by a private consortium and will offer guaranteed levels of service.

HOW WILL GALILEO DIFFER  
FROM GPS?

As brilliant as GPS is, its accuracy and availability can on occasions leave a lot to be desired, as anyone who has a receiver will know. Sometimes it can be very difficult to get a fix and the accuracy can drift out to 10m or more.

The new Galileo system will offer five service levels and bring, its designers say, a step-change in performance.

S IANC E IANC S ILIN

### **The five Galileo services**

E ILIN

Since the first GPS satellite was launched in the late 1970s, sat-nav technology has evolved enormously.

Galileo should offer greater accuracy - down to a metre and less; and greater penetration - in urban centres, inside buildings, and under trees; and a faster fix.

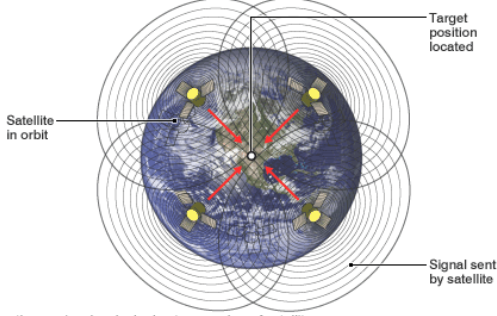
The Galileo system will also come with an "integrity" component - it will be able to tell users if there are major errors that could compromise performance.

Users will also benefit enormously from the agreement between Europe and the US to make their sat-nav systems compatible and "interoperable". That is, future receivers will be able to get a fix using satellites from either constellation.

And when the US introduces the next generation of GPS, users will see a further jump in performance.

S IANC E IANC

S IBOX

<p><b>HOW GLOBAL NAVIGATION SATELLITE SYSTEMS (GNSS) WORK</b></p>  <p>When the receiver has locked onto a number of satellites, it can accurately determine the position of the subject</p> <p>Sat-nav systems determine a position by measuring the distances to a number of known locations - the spacecraft constellation in orbit</p> <p>In practice, a sat-nav receiver will capture atomic-clock time signals sent from the satellites and convert them into the respective distances</p> <p>A sat-nav device will use the data sent from at least four satellites to get the very best estimate of its position - whether on the ground or in the sky</p> <p>The whole system is monitored from the ground to ensure satellite clocks do not drift and give out timings that might mislead the user</p>	
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--

E IBOX

<p><b>WHAT WILL GALILEO BE USED FOR?</b></p> <p>Most people know sat-nav from its in-car application; but there is more. Much more.</p> <p>The central component of sat-nav is precise timing. The atomic clocks flown on the spacecraft keep near-perfect time, equivalent to the theoretical loss of just billionths of a second over 24 hours.</p>	
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--

S IBOX



Navigation for navigation's sake will not drive applications  
 Uptake pushed forward by services that add value to data  
 Huge potential for internet-linked services run off mobiles  
 E.g. finding a restaurant, and directing you to nearest ATM  
 Multimedia delivered to tourists' mobiles as they walk around  
 'Guardian angel' services will locate separated children  
 Possibilities are endless; mobile firms already brainstorming  
 Database and billing companies planning for large markets

## E IBOX

This precision timing already plays a fundamental but often neglected role in electricity distribution, the functioning of e-mail and the internet, and in the security of financial transactions.  
 Galileo's improved clocks - their precision is 10 times better than current space-qualified clocks - will deepen and extend this role. The better penetration, accuracy and guarantees of service should also give many more entrepreneurs the confidence to build business plans around sat-nav.  
 With sat-nav capability increasingly incorporated into mobile devices, there is likely to be an explosion in new applications. Many of these will be quite novel and unexpected uses for sat-nav.  
 Nonetheless, the transport sector will obviously be a big beneficiary. Industry will derive

beneficiary. Industry will derive major efficiency gains through better management of supply chains and haulage fleets. Galileo will deliver the tools national governments need to introduce wide-scale road charging. Galileo will also underpin Europe's new air-traffic control system. The single European sky initiative will overhaul current technologies used to keep planes at safe separations, and will allow pilots to fly their own routes and altitudes.

#### IS GALILEO WORTH THE COST?

There are many who have had deep reservations about the cost of Galileo from the outset - and, in particular, the uncertainties that exist about what the precise end-cost will be.

This prompted one sceptic to dub Galileo the "Common Agricultural Policy of the sky". As first envisaged, it was going to cost EU taxpayers no more than 1.8bn euros. It will now cost them more than **5bn euros** [PDF], according to the European Court of Auditors in its 2009 Galileo report. The European Commission itself talks about a figure of **7bn euros** to complete the network. There is also an intense debate about the true scale of the revenue opportunities available. Who will want to pay for Galileo-enhanced services and how much will they be prepared to pay?



GPS was built at considerable cost by the US taxpayer but the returns for the American economy mean that investment has been repaid many times over. Early GPS entrepreneurs are now dollar billionaires, but how much room is left in the sat-nav market for others? Also, the progress of the project has hardly inspired confidence. The private consortium of aerospace and telecom companies selected to build and operate Galileo collapsed in 2007. Infighting and political meddling were blamed. Galileo has been bedevilled by delays and cost overruns. A group of UK MPs said that Galileo provided "a textbook example of how not to run large-scale infrastructure projects". All that said, the European Commission is adamant that the potential benefits are huge. Even if the value of the future global sat-nav market has been overstated (at 450bn euros annually from 2025 in one analysis), the returns to the EU economy demand member states press ahead with Galileo, the EC believes.

#### IS GALILEO A "BIG BROTHER" OR "SPY IN THE SKY?"

Galileo, like GPS, is a passive system; it cannot of itself track individuals. Just because someone carries an active receiver does not mean their every move can be followed. This only becomes possible once

positional information is forwarded to a third party. Some individuals will choose to do this; one can imagine a mobile phone service that alerts friends when you are in their area.

Companies will "tag" high-value deliveries that report their position so that customers have a better idea of when their goods will arrive.

And governments will, in certain circumstances, insist this information is forwarded to collection centres. A good example would be road pricing, where a vehicle's movements built-up from sat-nav data are passed to roadside beacons or reported over cellular phone networks.

S IANC E IANC

## **GALILEO WILL HAVE FIVE SERVICES**

S ITAB

S IROW

S ICOL

### **OPEN ACCESS NAVIGATION**

E ICOL S ICOL

This will be 'free to air' and for use by the mass market; Simple timing and positioning down to 1m

E ICOL

E IROW S IROW

S ICOL

### **COMMERCIAL NAVIGATION**

E ICOL S ICOL

— . . . . .

Encrypted; High accuracy at the cm scale; Guaranteed service for which service providers will charge fees

E ICOL

E IROW S IROW

S ICOL

**SAFETY OF  
LIFE  
NAVIGATION**

E ICOL S ICOL

Open service; For applications where guaranteed accuracy is essential; Integrity messages will warn of errors

E ICOL

E IROW S IROW

S ICOL

**PUBLIC  
REGULATED  
NAVIGATION**

E ICOL S ICOL

Encrypted; Continuous availability even in time of crisis; Government agencies will be main users

E ICOL

E IROW S IROW

S ICOL

**SEARCH AND  
RESCUE**

E ICOL S ICOL

System will pick up distress beacon locations; Feasible to send feedback, confirming help is on its way

E ICOL

E IROW

E ITAB

S ILIN

[Return to top](#)

# **Washington's New World Order Weapons Have the Ability to Trigger Climate Change**

by Michel Chossudovsky, Professor of Economics, University of  
Ottawa

Third World Resurgence, January 2001  
Centre for Research on Globalisation (CRG), [globalresearch.ca](http://globalresearch.ca), 4  
January 2002

**The important debate on global warming under UN auspices provides but a partial picture of climate change; in addition to the devastating impacts of greenhouse gas emissions on the ozone layer, the World's climate can now be modified as part of a new generation of sophisticated "non-lethal weapons." Both the Americans and the Russians have developed capabilities to manipulate the World's climate.**

**In the US, the technology is being perfected under the High-frequency Active Auroral Research Program (HAARP) as part of the ("Star Wars") Strategic Defence Initiative (SDI). Recent scientific evidence suggests that HAARP is fully operational and has the ability of potentially triggering floods, droughts, hurricanes and earthquakes. From a military standpoint, HAARP is a weapon of mass destruction. Potentially, it constitutes an instrument of conquest capable of selectively destabilising agricultural and ecological systems of entire regions. While there is no evidence that this deadly technology has been used, surely the United Nations should be addressing the issue of "environmental warfare" alongside the debate on the climatic impacts of greenhouse gases...**

Despite a vast body of scientific knowledge, the issue of deliberate

climatic manipulations for military use has never been explicitly part of the UN agenda on climate change. Neither the official delegations nor the environmental action groups participating in the Hague Conference on Climate Change (CO6) (November 2000) have raised the broad issue of "weather warfare" or "environmental modification techniques (ENMOD)" as relevant to an understanding of climate change.

The clash between official negotiators, environmentalists and American business lobbies has centered on Washington's outright refusal to abide by commitments on carbon dioxide reduction targets under the 1997 Kyoto protocol.(1) The impacts of military technologies on the World's climate are not an object of discussion or concern. Narrowly confined to greenhouse gases, the ongoing debate on climate change serves Washington's strategic and defense objectives.

### **"WEATHER WARFARE"**

World renowned scientist Dr. Rosalie Bertell confirms that "US military scientists ... are working on weather systems as a potential weapon. The methods include the enhancing of storms and the diverting of vapor rivers in the Earth's atmosphere to produce targeted droughts or floods." (2) Already in the 1970s, former National Security advisor Zbigniew Brzezinski had foreseen in his book "Between Two Ages" that:

"Technology will make available, to the leaders of major nations, techniques for conducting secret warfare, of which only a bare minimum of the security forces need be appraised... [T]echniques of weather modification could be employed to produce prolonged periods of drought or storm."

Marc Filterman, a former French military officer, outlines several types of "unconventional weapons" using radio frequencies. He refers to "weather war," indicating that the U.S. and the Soviet Union had already "mastered the know-how needed to unleash sudden climate changes (hurricanes, drought) in the early 1980s."(3) These technologies make it "possible to trigger atmospheric disturbances by using Extremely Low Frequency (ELF) radar [waves]." (4)

A simulation study of future defense "scenarios" commissioned for the US Air Force calls for:

"US aerospace forces to 'own the weather' by capitalizing on emerging technologies and focusing development of those technologies to war-fighting applications... From enhancing friendly operations or disrupting those of the enemy via small-scale tailoring of natural weather patterns to complete dominance of global communications and counterspace control, weather-modification offers the war fighter a wide-range of possible options to defeat or coerce an adversary... In the United States, weather-modification will likely become a part of national security policy with both domestic and international applications. Our government will pursue such a policy, depending on its interests, at various levels.(5)

### **HIGH-FREQUENCY ACTIVE AURORAL RESEARCH PROGRAM (HAARP)**

The High-Frequency Active Auroral Research Program (HAARP) based in Gokoma Alaska --jointly managed by the US Air Force and the US Navy-- is part of a new generation of sophisticated weaponry under the US Strategic Defense Initiative (SDI). Operated by the Air Force Research Laboratory's Space Vehicles Directorate, HAARP constitutes a system of powerful antennas capable of creating "controlled local modifications of the ionosphere". Scientist Dr. Nicholas Begich --actively involved in the public campaign against HAARP-- describes HAARP as:

"A super-powerful radiowave-beaming technology that lifts areas of the ionosphere [upper layer of the atmosphere] by focusing a beam and heating those areas. Electromagnetic waves then bounce back onto earth and penetrate everything -- living and dead." (6)

Dr. Rosalie Bertell depicts HAARP as "a gigantic heater that can cause major disruption in the ionosphere, creating not just holes, but long incisions in the protective layer that keeps deadly radiation from bombarding the planet." 7

### **MISLEADING PUBLIC OPINION**

HAARP has been presented to public opinion as a program of scientific and academic research. US military documents seem to suggest, however, that HAARP's main objective is to "exploit the ionosphere for Department of Defense purposes." (8) Without explicitly referring to the HAARP program, a US Air Force study points to the use of "induced ionospheric modifications" as a means of

altering weather patterns as well as disrupting enemy communications and radar.<sup>9</sup>

According to Dr. Rosalie Bertell, HAARP is part of a integrated weapons' system, which has potentially devastating environmental consequences:

"It is related to fifty years of intensive and increasingly destructive programs to understand and control the upper atmosphere. It would be rash not to associate HAARP with the space laboratory construction which is separately being planned by the United States. HAARP is an integral part of a long history of space research and development of a deliberate military nature. The military implications of combining these projects is alarming. ... The ability of the HAARP / Spacelab/ rocket combination to deliver very large amount of energy, comparable to a nuclear bomb, anywhere on earth via laser and particle beams, are frightening. The project is likely to be "sold" to the public as a space shield against incoming weapons, or, for the more gullible, a device for repairing the ozone layer. (10)

In addition to weather manipulation, HAARP has a number of related uses:

"HAARP could contribute to climate change by intensively bombarding the atmosphere with high-frequency rays... Returning low-frequency waves at high intensity could also affect people's brains, and effects on tectonic movements cannot be ruled out. (11) More generally, HAARP has the ability of modifying the World's electro-magnetic field. It is part of an arsenal of "electronic weapons" which US military researchers consider a "gentler and kinder warfare". (12)

### **WEAPONS OF THE NEW WORLD ORDER**

HAARP is part of the weapons arsenal of the New World Order under the Strategic Defense Initiative (SDI). From military command points in the US, entire national economies could potentially be destabilized through climatic manipulations. More importantly, the latter can be implemented without the knowledge of the enemy, at minimal cost and without engaging military personnel and equipment as in a conventional war.

The use of HAARP -- if it were to be applied -- could have potentially devastating impacts on the World's climate. Responding to US

economic and strategic interests, it could be used to selectively modify climate in different parts of the World resulting in the destabilization of agricultural and ecological systems.

It is also worth noting that the US Department of Defense has allocated substantial resources to the development of intelligence and monitoring systems on weather changes. NASA and the Department of Defense's National Imagery and Mapping Agency (NIMA) are working on "imagery for studies of flooding, erosion, land-slide hazards, earthquakes, ecological zones, weather forecasts, and climate change" with data relayed from satellites. (13)

### **POLICY INERTIA OF THE UNITED NATIONS**

According to the Framework Convention on Climate Change (UNFCCC) signed at the 1992 Earth Summit in Rio de Janeiro:

"States have... in accordance with the Charter of the United Nations and the principles of international law, the (...) responsibility to ensure that activities within their jurisdiction or control do not cause damage to the environment of other States or of areas beyond the limits of national jurisdiction." (14)

It is also worth recalling that an international Convention ratified by the UN General Assembly in 1977 bans "military or other hostile use of environmental modification techniques having widespread, long-lasting or severe effects." (15) Both the US and the Soviet Union were signatories to the Convention. The Convention defines

"'environmental modification techniques' as referring to any technique for changing--through the deliberate manipulation of natural processes--the dynamics, composition or structure of the earth, including its biota, lithosphere, hydrosphere and atmosphere or of outer space." (16)

Why then did the UN --disregarding the 1977 ENMOD Convention as well as its own charter-- decide to exclude from its agenda climatic changes resulting from military programs?

### **EUROPEAN PARLIAMENT ACKNOWLEDGES IMPACTS OF HAARP**

In February 1998, responding to a report of Mrs. Maj Britt Theorin -- Swedish MEP and longtime peace advocate--, the European Parliament's Committee on Foreign Affairs, Security and Defense Policy held public hearings in Brussels on the HAARP program.(17)



The Committee's "Motion for Resolution" submitted to the European Parliament:

"Considers HAARP... by virtue of its far-reaching impact on the environment to be a global concern and calls for its legal, ecological and ethical implications to be examined by an international independent body...; [the Committee] regrets the repeated refusal of the United States Administration... to give evidence to the public hearing ...into the environmental and public risks [of] the HAARP program." (18).

The Committee's request to draw up a "Green Paper" on "the environmental impacts of military activities", however, was casually dismissed on the grounds that the European Commission lacks the required jurisdiction to delve into "the links between environment and defense". (19) Brussels was anxious to avoid a showdown with Washington.

### **FULLY OPERATIONAL**

While there is no concrete evidence of HAARP having been used, scientific findings suggest that it is at present fully operational. What this means is that HAARP could potentially be applied by the US military to selectively modify the climate of an "unfriendly nation" or "rogue state" with a view to destabilizing its national economy.

Agricultural systems in both developed and developing countries are already in crisis as a result of New World Order policies including market deregulation, commodity dumping, etc. Amply documented, IMF and World Bank "economic medicine" imposed on the Third World and the countries of the former Soviet block has largely contributed to the destabilization of domestic agriculture. In turn, the provisions of the World Trade Organization (WTO) have supported the interests of a handful of Western agri-biotech conglomerates in their quest to impose genetically modified (GMO) seeds on farmers throughout the World.

It is important to understand the linkage between the economic, strategic and military processes of the New World Order. In the above context, climatic manipulations under the HAARP program (whether accidental or deliberate) would inevitably exacerbate these changes by weakening national economies, destroying infrastructure and potentially triggering the bankruptcy of farmers over vast areas.

Surely national governments and the United Nations should address the possible consequences of HAARP and other "non-lethal weapons" on climate change.

## NOTES

1. The latter calls for nations to reduce greenhouse gas emissions by an average of 5.2 percent to become effective between 2008 and 2012. See Background of Kyoto Protocol at <http://www.globalwarming.net/gw11.html> .
2. The Times, London, 23 November 2000.
3. Intelligence Newsletter, December 16, 1999.
4. Ibid.
- 5 Air University of the US Air Force, AF 2025 Final Report, <http://www.au.af.mil/au/2025/> (emphasis added).
- 6 Nicholas Begich and Jeane Manning, The Military's Pandora's Box, Earthpulse Press, <http://www.xyz.net/~nohaarp/earthlight.html> . See also the HAARP home page at <http://www.haarp.alaska.edu/>
7. See Briarpatch, January, 2000. (emphasis added).
- 8 Quoted in Begich and Manning, op cit.
9. Air University, op cit.
10. Rosalie Bertell, Background of the HAARP Program, 5 November, 1996, <http://www.globalpolicy.org/socecon/envronmt/weapons.htm>
11. Begich and Manning, op cit.
12. Don Herskovitz, Killing Them Softly, Journal of Electronic Defense, August 1993. (emphasis added). According to Herskovitz, "electronic warfare" is defined by the US Department of Defense as "military action involving the use of electromagnetic energy..." The Journal of Electronic Defense at <http://www.jedefense.com/> has published a range of articles on the application of electronic and electromagnetic military technologies.
13. Military Space, 6 December, 1999.
14. UN Framework Convention on Climate Change, New York, 1992. See complete text at [http://www.unfccc.de/resource/conv/conv\\_002.html](http://www.unfccc.de/resource/conv/conv_002.html) , (emphasis added).
15. See Associated Press, 18 May 1977.
16. Environmental Modification Ban Faithfully Observed, States

Parties Declare, UN Chronicle, July, 1984, Vol. 21, p. 27.

17. European Report, 7 February 1998.

18. European Parliament, Committee on Foreign Affairs, Security and Defense Policy, Brussels, doc. no. A4-0005/99, 14 January 1999.

19. EU Lacks Jurisdiction to Trace Links Between Environment and Defense, European Report, 3 February 1999.

Copyright by Michel Chossudovsky, CRG 2002. All rights reserved.

Permission is granted to post this text on non-commercial community internet sites, provided the essay remains intact and the copyright note is displayed. To publish this text in printed and/or other forms contact the CRG at [editor@globalresearch.ca](mailto:editor@globalresearch.ca).

[http://archive.wired.com/politics/security/  
news/2007/09/mind\\_reading?currentPage=all](http://archive.wired.com/politics/security/news/2007/09/mind_reading?currentPage=all)

## The Weird Russian Mind-Control Research Behind a DHS Contract

By Sharon Weinberger  09.20.07

only display photo on first page start article photo



A dungeon-like room in the Psychotechnology Research Institute in Moscow is used for human testing. The institute claims its technology can read the subconscious mind and alter behavior.

*Photo: Nathan Hodge*

close pic

MOSCOW -- The future of U.S. anti-terrorism technology could lie near the end of a Moscow subway line in a circular dungeon-like room with a single door and no windows. Here, at the Psychotechnology Research Institute, human subjects submit to experiments aimed at manipulating their subconscious minds.

Elena Rusalkina, the silver-haired woman who runs the institute,

gestured to the center of the claustrophobic room, where what looked like a dentist's chair sits in front of a glowing computer monitor. "We've had volunteers, a lot of them," she said, the thick concrete walls muffling the noise from the college campus outside. "We worked out a program with (a psychiatric facility) to study criminals. There's no way to falsify the results. There's no subjectivism."

The Department of Homeland Security (DHS) has gone to many strange places in its search for ways to identify terrorists before they attack, but perhaps none stranger than this lab on the outskirts of Russia's capital. The institute has for years served as the center of an obscure field of human behavior study -- dubbed psychoecology -- that traces its roots back to Soviet-era mind control research.

What's gotten DHS' attention is the institute's work on a system called Semantic Stimuli Response Measurements Technology, or SSRM Tek, a software-based mind reader that supposedly tests a subject's involuntary response to subliminal messages.

SSRM Tek is presented to a subject as an innocent computer game that flashes subliminal images across the screen -- like pictures of Osama bin Laden or the World Trade Center. The "player" -- a traveler at an airport screening line, for example -- presses a button in response to the images, without consciously registering what he or she is looking at. The terrorist's response to the scrambled image involuntarily differs from the innocent person's, according to the theory.



Gear for testing MindReader 2.0 software hangs on a wall at the Psychotechnology Research Institute in Moscow. Marketed in North America as SSRM Tek, the technology will soon be tested for airport screening by a U.S. company under contract to the Department of Homeland Security.



**Photo: Nathan Hodge**

"If it's a clean result, the passengers are allowed through," said Rusalkina, during a reporter's visit last year. "If there's something there, that person will need to go through extra checks."

Rusalkina markets the technology as a program called Mindreader 2.0. To sell Mindreader to the West, she's teamed up with a Canadian firm, which is now working with a U.S. defense contractor called SRS Technologies. This May, DHS announced plans to award a sole-source contract to conduct the first U.S.-government sponsored testing of SSRM Tek.

The contract is a small victory for the [Psychotechnology Research Institute](#) and its leaders, who have struggled for years to be accepted in the West. It also illustrates how the search for counter-terrorism technology has led the U.S. government into unconventional -- and some would say unsound -- science.

All of the technology at the institute is based on the work of Rusalkina's late husband, Igor Smirnov, a controversial Russian scientist whose incredible tales of mind control attracted frequent press attention before his death several years ago.

Smirnov was a [Rasputin](#)-like character often portrayed in the media as having almost mystical powers of persuasion. Today, first-time visitors to the institute -- housed in a drab concrete building at the [Peoples Friendship University of Russia](#) -- are asked to watch a half-hour television program dedicated to Smirnov, who is called the father of "psychotronic weapons," the Russian term for mind control weapons. Bearded and confident, Smirnov in the video explains how subliminal sounds could alter a person's behavior. To the untrained ear, the demonstration sounds like squealing pigs.



**Elena Rusalkina demonstrates the terrorist-screening tool. She says it works faster than a polygraph and can be used at airports.**

**Photo: Nathan Hodge**

According to Rusalkina, the Soviet military enlisted Smirnov's psychotechnology during the Soviet Union's bloody war in Afghanistan in the 1980s. "It was used for combating the Mujahideen, and also for treating post-traumatic stress syndrome" in Russian soldiers, she says. In the United States, talk of mind control typically evokes visions of tinfoil hats. But the idea of psychotronic weapons enjoys some respectability in Russia. In the late 1990s, Vladimir Lopatin, then a member of the Duma, Russia's parliament, pushed to restrict mind control weapons, a move that was taken seriously in Russia but elicited some curious mentions in the Western press. In an interview in Moscow, Lopatin, who has since left the Duma, cited Smirnov's work as proof that such weaponry is real.

"It's financed and used not only by the medical community, but also by individual and criminal groups," Lopatin said. Terrorists might also get hold of such weapons, he added.

After the fall of the Soviet Union, Smirnov moved from military research into treating patients with mental problems and drug addiction, setting up shop at the college. Most of the lab's research is focused on what it calls "psychocorrection" -- the use of subliminal messages to bend a subject's will, and even modify a person's personality without their knowledge.

The slow migration of Smirnov's technology to the United States began in 1991, at a KGB-sponsored conference in Moscow intended to market once-secret Soviet technology to the world. Smirnov's claims of mind control piqued the interest of Chris and Janet Morris -- former science-fiction writers turned Pentagon consultants who are now widely credited as founders of the Pentagon's "non-lethal" weapons concept.

In an interview last year, Chris Morris recalled being intrigued by Smirnov -- so much so that he accompanied the researcher to his lab and allowed Smirnov to wire his head up to an electroencephalograph, or EEG. Normally used by scientists to measure brain states, Smirnov peered into Morris's EEG tracings and divined the secrets of his subconscious, right down to intimate details like Morris' dislike of his own first name.



The underlying premise of the technology is that terrorists would recognize a scrambled terrorist image like this one without even realizing it, and would be betrayed by their subconscious reaction to the picture.

*Photo: Nathan Hodge*

"I said, 'gee, the guys back at home have got to see this,'" Morris recalled. The Morrises shopped the technology around to a few military agencies, but found no one willing to put money into it. However, in 1993 Smirnov rose to brief fame in the United States when the FBI consulted with him in hope of ending the [standoff in Waco](#) with cult leader David Koresh. Smirnov proposed blasting scrambled sound -- the pig squeals again -- over loudspeakers to persuade Koresh to surrender.

But the FBI was put off by Smirnov's cavalier response to questions. When officials asked what would happen if the subliminal signals didn't work, Smirnov replied that Koresh's followers might slit each other's throats, Morris recounted. The FBI took a pass, and Smirnov returned to Moscow with his mind control technology.

"With Smirnov, the FBI was either demanding a yes or a no, and therefore our methods weren't put to use, unfortunately," Rusalkina said, taking a drag on her cigarette.





Igor Smirnov, founder of the Psychotechnology Research Institute, died of a heart attack in 2005. Smirnov is best known in the United States for consulting with the FBI during the 1993 Waco siege.

*Photo: Nathan Hodge*

Smirnov died in November 2004, leaving the widowed Rusalkina -- his long-time collaborator -- to run the institute. Portraits of Smirnov cover Rusalkina's desk, and his former office is like a shrine, the walls lined with his once-secret patents, his awards from the Soviet government, and a calendar from the KGB's cryptographic section.

Despite Smirnov's death, Rusalkina predicts an "arms race" in psychotronic weapons. Such weapons, she asserts, are far more dangerous than nuclear weapons.

She pointed, for example, to a spate of Russian news reports about "zombies" -- innocent people whose memories had been allegedly wiped out by mind control weapons. She also claimed that Russian special forces contacted the institute during the 2003 [Moscow theater siege](#), in which several hundred people were held hostage by Chechen militants. "We could have stabilized the situation in the concert hall, and the terrorists would have called the whole thing off," she said. "And naturally, you could have avoided all the casualties, and you could have put the terrorists on trial. But the Alfa Group" -- the Russian equivalent of Delta Force -- "decided to go with an old method that had already been tested before."

The Russians used a narcotic gas to subdue the attackers and their captives, which led to the asphyxiation death of many of the hostages. These days, Rusalkina explained, the institute uses its psychotechnology to treat alcoholics and drug addicts. During the interview, several

patients -- gaunt young men who appeared wasted from illness -- waited in the hallway.

But the U.S. war on terror and the millions of dollars set aside for homeland security research is offering Smirnov a chance at posthumous respectability in the West.

Smirnov's technology reappeared on the U.S. government's radar screen through Northam Psychotechnologies, a Canadian company that serves as North American distributor for the Psychotechnology Research Institute. About three years ago, Northam Psychotechnologies began seeking out U.S. partners to help it crack the DHS market. For companies claiming innovative technologies, the past few years have provided bountiful opportunities. In fiscal year 2007, DHS allocated \$973 million for science and technology and recently announced Project Hostile Intent, which is designed to develop technologies to detect people with malicious intentions.

One California-based defense contractor, DownRange G2 Solutions, expressed interest in SSRM Tek, but became skeptical when Northam Psychotechnologies declined to make the software available for testing. "That raised our suspicion right away," Scott Conn, CEO and president of DownRange, told Wired News. "We weren't prepared to put our good names on the line without due diligence." (When a reporter visited last year, Rusalkina also declined to demonstrate the software, saying it wasn't working that day.)

While Conn said the lack of testing bothered him, the relationship ended when he found out Northam Psychotechnologies went to SRS Technologies, now part of ManTech International Corp.

Semyon Ioffe, the head of Northam Psychotechnologies, who identifies himself as a "brain scientist," declined a phone interview, but answered questions over e-mail. Ioffe said he signed a nondisclosure agreement with Conn, and had "a few informal discussions, after which he disappeared to a different assignment and reappeared after (the) DHS announcement."

As for the science, Ioffe says he has a Ph.D in neurophysiology, and cited Smirnov's Russian-language publications as the basis for SSRM Tek.

However, not everyone is as impressed with Smirnov's technology, including John Alexander, a well-known expert on non-lethal weapons. Alexander was familiar with Smirnov's meetings in Washington during the Waco crisis, and said in an interview last year that there were serious doubts then as now.

"It was the height of the Waco problem, they were grasping at straws," he said of the FBI's fleeting interest. "From what I understand from people who were there, it didn't work very well."

Geoff Schoenbaum, a neuroscientist at the University of Maryland's School of Medicine, said that he was unaware of any scientific work

specifically underpinning the technology described in SSRM Tek.

"There's no question your brain is able to perceive things below your ability to consciously express or identify," Schoenbaum said. He noted for example, studies showing that images displayed for milliseconds -- too short for people to perceive consciously -- may influence someone's mood. "That kind of thing is reasonable, and there's good experimental evidence behind it."

The problem, he said, is that there is no science he is aware of that can produce the specificity or sensitivity to pick out a terrorist, let alone influence behavior. "We're still working at the level of how rats learn that light predicts food," he explained. "That's the level of modern neuroscience."

Developments in neuroscience, he noted, are followed closely. "If we could do (what they're talking about), you would know about it," Schoenbaum said. "It wouldn't be a handful of Russian folks in a basement."

In the meantime, the DHS contract is still imminent, according to those involved, although all parties declined to comment on the details, or the size of the award. Rusalkina did not respond to a recent e-mail, but in the interview last year, she confirmed the institute was marketing the technology to the United States for airport screening.

Larry Orloskie, a spokesman for DHS, declined to comment on the contract announcement. "It has not been awarded yet," he replied in an e-mail.

"It would be premature to discuss any details about the pending contract with DHS and I will be happy to do an interview once the contract is in place," Ioffe, of Northam Psychotechnologies, wrote in an e-mail. Mark Root, a spokesman for ManTech, deferred questions to DHS, noting, "They are the customer."

end article content

close toolbox\_art\_bot

#### **See Also:**

[Iraq Diary: Why Jake Volunteered for a Third Tour](#)

[Rogue Nodes Turn Tor Anonymizer Into Eavesdropper's Paradise](#)

[U.S. Watch Lists Sow Frustration and Fear](#)

**Search Wired**

Top Stories

Magazine

## Related Topics:

close article\_footer

## PROJECT GALILEO

Email addresses, flight tickets, payments for 30 years. Biometric identification.  
Gasometers - recording equipment

ice cap facility in norway -

smart houses - can recognise by the way you walk harpic sensors - how many people in the house, set the temperature. use the microwave heating effect to heat low income individuals (research).

swedish studies about mobile phone tech - per siegerbeg

nqtel - cia

## BIBLIOGRAPHY

1. US Air Force, New World Vistas: Air and Space Power for the 21st Century – Ancillary Volume, Scientific Advisory Board (USAF), Washington, DC, Document #1996061804 0, 1996, pp. 89-90. EPI402
2. Foster, Sarah, "Cold War legend dies at 80: Famed as CIA's real -life 'Dr Strangelove'", Worldnetdaily, March 9, 1999. EPI279
3. Reppert, Barton, "The Zapping of an Embassy: 35 Years Later, The Mystery Lingers", AP, May 22, 1988. EPI1112
4. Advisory Committee Staff, Committee on Human Radiation Experiments, Methodological Review of Agency Data Collection Efforts: Initial Report on the Central Intelligence Agency Document Search, June 27, 1994. EPI579
5. Petersen, John L., The Road to 2015: Profiles of the Future , Waite Group Press, 1994, ISBN 1-878739-85-9. EPI849
6. USAF, New World Vistas, ibid.
7. US EPA, Summary and Results of the April 26-27, 1993 Radiofrequency Radiation Conference, Volume 2: Papers, 402 -R-95-011, March 1995. EPI728
8. Oscar, K.J., "Effects of low power microwaves on the local cerebral blood flow of conscious rats", Army Mobility Equipment Command, June 1, 1980. EPI1195
9. Delgado, José M.R., Physical Control of the Mind: Toward a Psychocivilized Society , Harper & Row Publishers, New York, 1969. EPI850

10. US Senate, Communist Interrogation, Indoctrination and Exploitation of American Military and Civilian Prisoners, Committee on Government Operations, Subcommittee on Investigations, 84th Congress, 2nd Session, December 31, 1956. EPI1131
11. Cooper, Pat, "US Enhances Mind Games", Defense News, April 17-23, 1995. EPI1154
- 11a. Chernishev, I., "Can Rulers Make 'Zombies' and Control the World?", Orienteer, February 1997, pp. 58-62.
12. Thomas, Timothy L., "The Mind Has No Firewall", Parameters, vol. XXVIII, no. 1, Spring 1998. EPI525
13. Brzezinski, Zbigniew, Between Two Ages: America's Role in the Technetronic Era, Viking Press, New York, 1970. EPI787
14. McGill, Peter, "'Mind Control Music' Stops Shoplifters", The Sydney Morning Herald, February 4, 1995. EPI95
15. US Patent #4,777,529, October 11, 1988, "Auditory Subliminal Programming System"; Inventors: Schultz et al.; Assignee: Richard M. Schultz and Associates, Inc. EPI265
16. US Patent #4,395,600, July 26, 1983, "Auditory Subliminal Message System and Method"; Inventors: Lundy et al. EPI264
17. US Patent #5,134,484, July 28, 1992, "Superimposing Method and Apparatus Useful for Subliminal Messages"; Inventor: Willson, Joseph; Assignee: MindsEye Educational Systems, Inc. EPI290
18. US Patent #5,270,800, December 14, 1993, "Subliminal Message Generator"; Inventor: Sweet, Robert L. EPI288
19. Hall, E. Gene, "Watch Carefully Now: Solving Crime in the 21st Century", Police, June 1999, vol. 23, no. 6. Source: NLECTC Law Enforcement & Technology News Summary, June 17, 1999. EPI944
20. US Department of Defense (awarding agency), "Communicating via the Microwave Auditory Effect", SBIR Contract Number F41624-95-C-9007. EPI277
21. ITV News Bureau, "A Psy-Ops Bonanza On The Desert", 1991, <http://www.mindspring.com/~silent/xx/daisy.htm>. EPI568
22. ITV News Bureau, "High Tech Psychological Warfare Arrives in the Middle East", 1991, <http://www.mindspring.com/~silent/xx/news.htm>. EPI567
23. Frey, Allan H., "Auditory Response to Radio Frequency Aerospace Medicine, System Energy", vol. 32, December 1961, pp. 1140-1142. EPI370
24. US Patent #2,995,633, August 8, 1961, "Means for Aiding Hearing"; Inventors: Puharich et al. EPI256
25. US Patent #3,170,993, February 23, 1965, "Means for Aiding Hearing by Electrical Stimulation of the Facial Nerve System"; Inventors: Henry K. Puharich and Joseph L. Lawrence. EPI1119

26. Frey, Allan H., "Human Auditory System Response to Modulated Electromagnetic Energy", Journal of Applied Physiology 17(4):689-692, 1962. EPI544
27. US Patent #3,393,279, July 16, 1968, "Nervous System Excitation Device"; Inventor: Flanagan, Gillis Patrick; Assignee: Listening Incorporated. EPI261
28. US Patent #3,647,970, March 7, 1972, "Method and System of Simplifying Speech Waveforms"; Inventor: Flanagan, Gillis P.
29. US Patent #3,566,347, Feb. 23, 1971, "Psycho-Acoustic Projector"; Inventor: Flanders, Andrew E.; Assignee: General Dynamics Corporation. EPI260
30. Sharp et al., "Generation of Acoustic Signals by Pulsed Microwave Energy", IEEE Transactions On Microwave Theory And Techniques, May 1974. EPI817
31. US Patent #4,877,027, Oct. 31, 1989, "Hearing System"; Inventor: Brunkan, Wayne. EPI1124
32. US Patent #4,858,612, Aug. 22, 1989, "Hearing Device"; Inventor: Stocklin, William L. EPI270
33. US Patent #4,877,027, Oct. 31, 1989, "Hearing System"; Inventor: Brunkan, Wayne B. EPI262
34. US Patent #5,159,703, Oct. 27, 1992, "Silent Subliminal Presentation System", Inventor: Lowry, Oliver M. EPI285
35. Scientists for Global Responsibility, "Non-Lethal Defence: The New Age Mental War Zone", issue 10, 1995. EPI810
36. US Patent #5,539,705, July 23, 1996, "Ultrasonic Speech Translator and Communication System"; Inventor: Akerman, M. Alfred et al.; Assignee: Martin Marietta Energy Systems. EPI293
37. Specter, Michael, "Scientists make brain cells grow", Anchorage Daily News , May 4, 1990. EPI527
38. Bishop, Jerry, "Nervy Scientists Move Toward Union Of Living Brain Cells With Microchips", Wall Street Journal , February 1, 1994, p. B3. EPI49
39. ONDCP, CTAC, "Counterdrug Research and Development Blueprint Update", <http://www.whitehousedrugpolicy.gov/scimed/blueprint99/execsumm.htm>
40. Cohen, David, "Magnetic Fields of the Human Body", Physics Today, August 1975. EPI1179
41. US Patent #5,392,788, Feb. 28, 1995, "Method And Device For Interpreting Concepts And Conceptual Thought From Brainwave Data And For Assisting For Diagnosis Of Brainwave Dysfunction"; Inventor: Hudspeth, William J. EPI1129
42. US Patent #5,507,291, April 16, 1996, "Method And An Associated Apparatus For Remotely Determining Information As To Person's Emotional State"; Inventors: Stirbl et al. EPI1130
43. Watts, Susan, "Alien kidnaps may just be mind zaps", The Sydney Morning Herald , November 19, 1994. EPI816
44. Opall, Barbara, "US Explores Russian Mind-Control Technology", Defense News, January 11-17, 1993. EPI818

45. Persinger, M. et al., "Partial Amnesia for a Narrative Following Application of Theta Frequency EM Fields", *Journal of Bioelectricity* 4(2):481-494 (1985). EPI372
46. US Patent #5,036,858, Aug. 6, 1991, "Method And Apparatus For Changing Brain Wave Frequency"; Inventors: Carter et al. EPI1127
47. US Patent #3,951,134, April 20, 1976, "Apparatus And Method For Remotely Monitoring And Altering Brainwaves";  
Inventor: Malech, Robert G.; Assignee: Dorne & Margolin Inc. EPI1122
48. "Advances in Neuroscience 'May Threaten Human Rights'", *Nature*, vol. 391, January 22, 1998. EPI116
49. Kahney, Leander, "A Cat's Eye Marvel", *Wired.com News*, October 7, 1999, at <http://www.wired.com/news/technology/story/22116.html>. EPI832
50. Delgado, José M.R., *Physical Control of the Mind: Toward a Psychocivilized Society*, Harper & Row, New York, 1969. EPI850
51. "DoD, Intel Agencies Look at Russian Mind Control Technology, Claims", *Defense Electronics*, July 1993. EPI538
52. Elliot, Dorinda and Barry, John, "A Subliminal Dr Strangelove", *Newsweek*, August 21, 1994. EPI542
53. Depue, Roger L. and Depue, Joanne M., "To Dream, Perchance to Kill", *Security Management*, vol. 43, no. 6, July 1999. Source: NLECTC Law Enforcement & Technology News, Summary, July 8, 1999. EPI932
54. Hutchison, Michael, *MegaBrain: New Tools and Techniques for Brain Growth and Mind Expansion*, 1986. EPI1235
55. US Patent #5,356,368, Oct. 18, 1994, "Method and Apparatus for Inducing Desired States of Consciousness", Inventor: Monroe, Robert; Assignee: Interstate Industries, Inc. EPI286
56. Hutchison, Michael, *MegaBrain*, op. cit., p. 114. EPI1235
57. US Patent #3,773,049, Nov. 20, 1973, "Apparatus for the Treatment of Neuropsychic and Somatic Diseases with Heat, Light, Sound and VHF Electromagnetic Radiation"; Inventors: Rabichev et al. EPI257
58. US Patent #4,034,741, July 12, 1977, "Noise Transmitter and Generator"; Inventors: Adams et al.; Assignee: Solitron Devices Inc. EPI267
59. US Patent #4,191,175, March 4, 1980, "Method and Apparatus for Repetitively Producing a Noise-Like Audible Signal", Inventor: Nagle, William L. EPI269
60. US Patent # 4,335,710, June 22, 1982, "Device for the Induction of Specific Brain Wave Patterns"; Inventor: Williamson, John D.; Assignee: Omnitronics Research Corporation. EPI292
61. US Patent #4,717,343, Jan. 5, 1988, "Method of Changing a Person's Behavior"; Inventor: Densky, Alan. EPI284
62. US Patent #4,834,701, May 30, 1989, "Apparatus for Inducing Frequency Reduction in Brainwave", Inventor: Masaki, Assignee: Hayashibara, Ken. EPI266

63. US Patent #4,889,526, Dec. 26, 1989, "Non-Invasive Method and Apparatus for Modulating Brain Signals Through an External Magnetic Or Electric Field To Reduce Pain"; Inventors: Rauscher, Elizabeth A. and Van Bise, William L.; Assignee: Megatech Laboratories, Inc. EPI268
64. US Patent #4,227,516, Oct. 14, 1990, "Apparatus for Electrophysiological Stimulation"; Inventors: Meland et al. EPI283  
Kazumi;
65. US Patent #4,883,067, Nov. 28, 1989, "Method and Apparatus for Translating the EEG into Music to Induce and Control Various Psychological and Physiological States and to Control a Musical Instrument"; Inventors: Knispel et al.; Assignee: Neurosonics, Inc. EPI282
66. US Patent # 5,123,899, June 23, 1992,  
"Method and  
Consciousness";  
EPI289.
67. Patent #  
"Method and Recording For Producing Sounds and Messages to Achieve Alpha and Theta Brainwave States and Positive Emotional States in Humans"; Inventor: Davis, Mark E. EPI291
68. US Patent #5,289,438, Feb. 22, 1994, "Method and System For Altering Consciousness", Inventor: Gall, James. EPI333
69. Ruttan, Leslie A. et al., "Enhancement of Temporal Lobe-Related Experiences During Brief Exposures To Milligauss Intensity Extremely Low Frequency Magnetic Fields", Journal of Bioelectricity 9(1):33-54 (1990). EPI311
70. US Patent #5,562,597, Oct. 8, 1996, "Method and Apparatus for Reducing Physiological Stress"; Inventor: Van Dick, Robert C. EPI294
71. US Patent # 5,586,967, Dec. 24, 1996, "Method and Recording or Producing Sounds and Messages To Achieve Alpha and Theta  
System  
Inventor:  
for Altering Gall, James.  
5,352,181,  
Oct. 4, 1994,  
Brainwave States in Humans", Inventor: Davis, Mark E. EPI296
72. US Patent #5,213,562, May 25, 1993, "Method of Inducing Mental, Emotional and Physical States of Consciousness, Including Specific Mental Activity in Human Beings"; Inventor: Monroe, Robert; Assignee: Interstate Industries, Inc. EPI287
73. Hotz, Robert Lee, "Listening to Mozart a real – but temporary – IQ builder, study says", Anchorage Daily News , October 15, 1993. EPI529
74. Tyler, Capt. Paul E., MC, USN, "The Electromagnetic Spectrum in Low -Intensity Conflict" in Lt. Col. David Dean (ed.), Low- Intensity Conflict and Modern Technology, Air University Press, June 1986. EPI709



75. Cole, Richard, "ESP spies, 'Stargate' are psychic reality", Saint Paul Pioneer Press, November 30, 1995. EPI491
76. Morehouse, David, Psychic Warrior, Michael Joseph Ltd, UK, St Martin's Press, USA, 1996.
77. Aftergood, Steven, "The 'Soft Kill' Fallacy", Bulletin of the Atomic Scientists , September/October 1994. EPI281
78. Suhajda, Joseph M., "Non -Lethal Weapons for Military Operations Other Than War", at <http://www.usafa.af.mil/wing/34edg/airman/suhajd~1.htm>. EPI348
79. *ibid.*
80. "Internet Feeds Delusions", Associated Press, July 5, 1999. EPI123
81. Brownstein, Andrew. "U. Albany Suspends implants research", Times Union, August 25, 1999. EPI833
82. Begich, Dr Nick and Jeane Manning, Angels Don't Play This HAARP: Advances in Tesla Technology, EarthPulse Anchorage, 1995.
84. Lalli, Anthony N., "Human Subject Protection", [http://www.pw2.netcom.com~allalli/BillSite\\_analysis/paper\\_web.html](http://www.pw2.netcom.com~allalli/BillSite_analysis/paper_web.html). EPI619 EPI259
85. Repacholi MH, Cardis E (1997) Criteria for EMF health risk assessment. Radiation Protection Dosimetry, 72:305-312.
86. Repacholi MH (ed) (1998) Low-level exposure to radiofrequency electromagnetic fields: health effects and research needs. Bioelectromagnetics, 19:1-19.
87. McKinlay AF and Repacholi MH (eds) (1999) Exposure metrics and dosimetry for EMF epidemiology. Radiation Protection Dosimetry, 83(1-2):194.
88. Repacholi MH and Greenebaum B (eds) (1999) Interaction of static and extremely low frequency electric and magnetic fields with living systems: Health effects and research needs. Bioelectromagnetics, 20:133-160.
89. Foster KH, Vecchia P, Repacholi MH (2000) Science and the precautionary policy. Science, 288:979-981.
90. Kheifets L (2001) Electric and magnetic field exposure and brain cancer. Bioelectromagnetics 5: S120-S131.

91. Kheifets L (2001) Electric and Magnetic Fields and Occupational Health. Patty's Industrial Hygiene and Toxicology, Fifth Edition 100: 141-198.
92. Kheifets L, Greenberg R, Neutra R, Hester G, Poole C, Rall D, Banerjee G (2001) From epidemiology to policy: An EMF case study. American Journal of Epidemiology 154(12): S50-59.
93. Kheifets L, Hester G, Banerjee G (2001) The Precautionary Principle and EMF: Implementation and Evaluation. Journal of Risk Research 4(2): 113-125.
94. Mezei G, Kheifets L (2001) "Is There any Evidence for Differential Misclassification or Bias Away from the Null in the Swedish Childhood Cancer Study?" Letter to the Editor, Epidemiology 12(6):750.
95. Repacholi MH (2001) Health risks from the use of mobile phones. Toxicology Letters 120: 323-331.
96. Foster KR, Osepchuk JM, and Repacholi MH (2002) Environmental impacts of electromagnetic fields from major electrical technologies. Environmental Health Perspectives.
97. Goldstein LS, Kheifets L, van Deventer TE, Repacholi MH (2002) Comments on the paper "Long-term exposure of Em -Pim1 transgenic mice to 898.4 MHz microwaves does not increase lymphoma incidence" Radiation Research. Radiation Research 158: 357-364.
98. Goldstein LS, Kheifets L, van Deventer TE, Repacholi MH (2002) Further comments on "Long-term Exposure of E&mgr;-Pim1 Transgenic Mice to 898.4 MHz Microwaves Does Not Increase Lymphoma Incidence" by Utteridge et al., Radiation Research 158, 357-364 (2002).
99. Kheifets L, Thrall N (2002) Electromagnetic Fields and Health. Macmillians Guide to Pollution.
100. Litvak E, Foster KR, and Repacholi MH (2002) Health and safety implications of exposure to

electromagnetic fields in the frequency range 300 Hz to 10 MHz.,  
Bioelectromagnetics, 23(1):68-82.

101.Mezei G, Kheifets L (2002) Clues to the possible viral etiology of childhood leukemia. Technology 9: 3-14.

Repacholi MH (2002) Assessment of the Health Effects of EMF Exposure. The Radio Science Bulletin 301: 14-24.

102.Sahl J, Mezei G, Kavet R, McMillan A, Silvers A, Sastre A, Kheifets L (2002) Occupational magnetic field exposures and cardiovascular mortality in a cohort of electric utility workers. American Journal of Epidemiology 156:913-918.

103.Goldstein LS, Kheifets L, van Deventer E, Repacholi M. (2003) Comments on "Long-term exposure of Emicro-Pim1 transgenic mice to 898.4 MHz microwaves does not increase lymphoma incidence" by Utteridge et al., Radiat. Res. 158, 357-364 (2002). Radiat Res. 2003 Feb;159(2): 275-6; author reply 276-8. No abstract available.

104.Goldstein LS, Kheifets L, Van Deventer E, Repacholi M. (2003) Further comments on "Long-term exposure of Emu-Pim1 transgenic mice to 898.4 MHz microwaves does not increase lymphoma incidence" by Utteridge et al. (Radiat. Res. 158, 357-364 2002). Radiat Res., 2003 Jun;159(6):835; author reply 835-6. No abstract available.

105.Dewhirst MW, Lora-Michiels M, Viglianti BL, Dewey WC, and Repacholi MH (2003) Carcinogenic effects of hyperthermia. International Journal of Hyperthermia, 19(3):236-251

106.Goldstein LS, Dewhirst MW, Repacholi MH, and Kheifets L (2003) Summary, conclusions and recommendations: adverse temperature levels in the human body, International Journal of Hyperthermia, 19(3):373-384

107.Kheifets L, Repacholi MH, and Saunders R (2003) Thermal stress and radiation

protection principles.

International Journal of Hyperthermia, 19(3):215-224

108. McKinlay A, Repacholi MH (2003) (eds) Weak electric fields effects in the body.

Radiation Protection

Dosimetry 106 (4) 2003

109. Repacholi MH (2003) WHO's health risk assessment of ELF fields. Radiation

Protection Dosimetry, 106(4):

297-299

110. Riadh W. Habash Y, Brodsky LM, Leiss W, Krewski D, Repacholi MH (2003)

Health Risks of

Electromagnetic Fields. Part I: Evaluation and Assessment of Electric and Magnetic Fields. Critical Review

in Biomedical Engineering, 31(3&4):219-273

111. van Deventer TE, Repacholi MH (2004) Effet de la Téléphonie mobile sur la santé

humaine: état des

connaissances scientifiques, Droit de l'environnement dans la pratique, 8, 708-724

112. Repacholi M, Saunders R, van Deventer E, Kheifets L. (2005) Guest editors'

introduction: is EMF a

potential environmental risk for children? Bioelectromagnetics, 2005;Suppl 7:S2-4.

No abstract available.

113. Kheifets L, Repacholi M, Saunders R, van Deventer TE (2005) Sensitivity of

Children to Electromagnetic

Fields, Pediatrics, August 2005, 303-313

114. van Deventer TE, Saunders R, Repacholi MH (2005) WHO health risk

assessment process for static fields,

progress in Biophysics and Molecular Biology, 87, 355-363

115. Kheifets L, Repacholi M, Saunders R, van Deventer E, (2005) The sensitivity of

children to electromagnetic

fields. Pediatrics, 2005 Aug;116(2):e303-13.

116. Kheifets L, Sahl J, Shimkhada R, Repacholi MH (2005) Developing policy in the

face of scientific uncertainty: interpreting 0.3  $\mu$ T or 0.4  $\mu$ T cut points from EMF

epidemiologic studies, Risk

Analysis, 25 (4), vol. 5, no.1, 927-935

117.Kheifets L, van Deventer TE, Lundel G, Swanson J (2006) Le principe de précaution et les champs électriques et magnétiques : mise en œuvre et évaluation, Environnement, risques et santé, Jan-Feb 2006, 43-53

118.van Rongen E, Saunders R, van Deventer TE, Repacholi MH (2006) Static fields: Biological effects and mechanisms relevant to exposure limits. Health Physics, June 2007, vol. 92, no. 6, 584-590

Valberg P, van Deventer TE, Repacholi MH (2007) Workgroup Report: Base Stations and Wireless Networks: Radiofrequency (RF) Exposures and Health Consequences. Environmental Health Perspectives, March 2007, vol. 115, no. 3, 416-424

119.van Deventer TE, Simunic D, Repacholi MH (2007) EMF standards for human health, chapter in Handbook of Biological Effects of Electromagnetic Fields, 3rd ed., Biological and Medical Aspects of Electromagnetic Fields, F. Barnes and B Greenebaum, eds., 277-292

120.van Deventer E, Foster K (2008) Risk Assessment and Risk Communication for Electromagnetic Fields: A World Health Organization Perspective, chapter in book The Role of Evidence in Risk Characterization: Making Sense of Conflicting Data, P. Wiedemann and H. Schütz, eds., WILEY-VCH, 13-24

121.van Deventer E, van Rongen E, Saunders R, (2011) WHO Research Agenda for Radiofrequency Fields. Bioelectromagnetics, Jul;32(5):417-21. doi: 10.1002/bem.20660

#### Contacts:

- Gordon Thomas - Journey Into Madness: The True Story of Secret CIA Mind Control and Medical Abuse By Gordon Thomas (1989)  
Email: [info@gordonthomas-author.com](mailto:info@gordonthomas-author.com)
- Dr John Hall  
Email: [drhall@logixonline.com](mailto:drhall@logixonline.com)  
Tel: +1 (210) 293 3136

- Dr Barry Trower, 3, Flowers Maddow,, TQ126UP Liverton Devon UK, tel. 01626 821014.
- GOLDSWORTHY, A 1996 Electrostimulation of cells by weak electric currents. In "Electrical Manipulation of Cells". Eds. Lynch, P., Davey, M.R. (Chapman and Hall, New York). Former Imperial College Lecturer.

