

(1) 1932

Overloading of Towns and Cities with Radio Transmitters (Cellular Transmitter): a hazard for the human health and a disturbance of eco-ethics

Karl Hecht, Elena N. Savoley
IRCHET International Research Centre of Healthy and Ecological Technology
Berlin – Germany

2007

1. A Very Serious Warning 36 Years Ago

"The electromagnetic radiations emanating for radar, television, communications systems, microwave ovens, industrial heat-treatment systems, medical diathermy units, and many other sources permeate the modern environment, both civilian and military."

* "Unless adequate monitoring and control based on a fundamental understanding of biological effects are instituted in the near future, in the decades ahead, man may enter an era of energy pollution of the environment comparable to the chemical pollution of today."

"The consequences of undervaluing or misjudging the biological effects of long-term, low-level exposure could become a critical problem for the public health, especially if genetic effects are involved."

These quotations are excerpts from the US government report "Program for Control of Electromagnetic Pollution of the Environment", which was published in December 1971. The government report was drafted starting in December 1968 by an expert group made up of nine people, "The Electromagnetic Radiation Management Advisory Council". "The President's Office of Telecommunications Policy" issued the order. This report was an urgent warning for the future.

2. Today (2007): Ignoring This Warning and Irresponsible Deception

About 36 years have passed since the publishing of this report. Unfortunately, this urgent warning, which is scientifically well-founded, is currently not taken seriously. The beauty of landscapes and cities are spoiled with "forests of radiant radio antennas" in order to serve a new addiction of people: telecommunication. From this unethical, environment-disfiguring antenna forest, people are continuously bombarded by invisible, imperceptible, health-damaging, stressing, high-frequency, electromagnetic radiations.

As predicted 36 years ago in the US government report, our planet today is more "contaminated" by "electronic smog" than with the chemistry that already heavily strains people. Those responsible have unfortunately still not considered a possible double strain of these two harmful factors.

The telecommunications and microwave industry even contends that these high-frequency electromagnetic radiations are not harmful for people's health. That is irresponsible deception. Facts support the opposite.

3. Radio Wave or Microwave Sickness Known for 75 Years

Seventy-five years ago in August 1932, the German doctor Erwin Schliephake published scientific data in the German Medical Weekly about radio transmitter-induced "microwave" or "radio wave sickness" with the following symptoms: severe tiredness and fatigue during the day, fitful sleep in the night, headaches to the point of intolerability, and high susceptibility to infection.

These symptoms, which are also observed in neurasthenia (enervation), were not to be traced back to the thermal effects, but rather to the athermal effects of high-frequency

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also List major
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BIBLIOGRAPHY OF REPORTED BIOLOGICAL PHENOMENA ('EFFECTS') AND CLINICAL
MANIFESTATIONS ATTRIBUTED TO MICROWAVE AND RADIO-FREQUENCY RADIATION

RESEARCH REPORT

HF12.524.015-0004B

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Springfield, VA 22151

ABSTRACT

More than 2000 references on the biological responses to radio frequency and microwave radiation, published up to June 1971, are included in the bibliography.* Particular attention has been paid to the effects on man of non-ionizing radiation at these frequencies. The citations are arranged alphabetically by author, and contain as much information as possible so as to assure effective retrieval of the original documents. An outline of the effects which have been attributed to radio frequency and microwave radiation is also part of the report.

*Three supplementary listings bring the number of citations to more than 2300.

Key Words

Biological Effects
Non-Ionizing Radiation
Radar Hazards
Radio Frequency Radiation
Microwave Radiation
Health Hazards
Bibliography
Electromagnetic Radiation Injury

The comments upon and criticisms of the literature made in this report, and the recommendations and inferences suggested, are those of the author, and do not necessarily reflect the views of the Navy Department or of the Naval Service.

Canada

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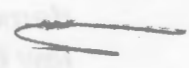
The prospect of domination of the nation's scholars
by federal employment, project allocations, and the power
of money, is likely to be regarded.
By Julianne McKinney, Director
Electronic Surveillance Project
and opposite danger that public policy could itself
become the Association of National Security Alumni

Silver Spring, Maryland

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Government actions are counterproductive and damaging
to the national interest of the United States. They are
inimical to the operation of an effective national
intelligence system and conducive of civil liberties.
The functioning of the judiciary and a free press
are most important. They constitute the principles of
democracy, national self-determination and international
law to which the United States is publicly committed.
(Words of the Association of National Security Alumni)

Also P5



Paper clip

Pandora

MK ultra

MK chaos

Cointelpro

MK Delta

MK Namoi

MK search

Bluebird

Artichoke

Chatter

Sleeping Beauty

Grill-Flame

in "burying this country" from within, than it could ever have hoped to have achieved as an institution. It would appear that this country has a serious problem on its hands which needs to be resolved.

Part I of this report, which is reprinted from the June-July 1992 edition of the Association's publication, *Unclassified*, preliminarily addresses the complaints brought to our attention as of July 1992. Our objective, as noted, was to weigh the legitimacy of those complaints in terms of the directed-energy technologies reportedly involved. Part II discusses the overt and covert patterns of harassment identified as a result of our investigations, to date. A part of our objective, here, is to limit the success of such operations in the future, by according them widespread publicity.

In Part II, we do not identify individuals by name, both to honor their privacy and because our investigations have not been completed. Part II, like Part I, is a preliminary finding. Our focus is on the similarities of the complaints being received—similarities which Federal and State legislators, the courts, the FBI, local law enforcement agencies, the medical and psychiatric professions, and organizations such as the ACLU and Amnesty International have so far chosen to ignore.

We frankly find it curious that more attention and credibility is being accorded purported victims of UFO experiences and spectral visitations, than to persons who complain of systematic harassment and experimentation by the U.S. Government, involving technologies which the U.S. Government is only now grudgingly admitting to possess. These complaints require investigation. In due course (and provided financial support is obtained), we hope to be able to acquire the technology and supportive medical expertise to substantiate the claims being made. We also hope to alter the institutional mindset that U.S. Intelligence can be trusted. History, repeatedly, has proven otherwise.

PART I - THE PROBLEM SURFACES

[Reprinted from the June-July 1992 edition of UNCLASSIFIED (Vol. IV, No. 3),

published by The Association of National Security Alumni, Washington, D.C.]

The August-September 1991 issue of *UNCLASSIFIED* reviewed Hamline University's *Public Administration* report on the resolution of MKULTRA cases in 1988. Although the shocking details of medical ethics abuses by the U.S. and Canadian governments were amply detailed, Washington and Ottawa—citing national security and government privilege—stalled for so long that the cases never came to trial. The surviving victims settled for a pittance in an out-of-court settlement.

Since no individuals or agencies were held legally accountable, the door was left open for possible resumption of similar "mind-control" activities.

In the context of that article, we mentioned briefly that some half-dozen people had contacted us with appeals for assistance in ending what they believe to be electronic harassment and mind-control experimentation, possibly involving the CIA. We decided to take a closer look at this situation.

We are now in touch with approximately a dozen individuals located throughout the United States who appear to be targets of harassment and mind-control experimentation involving directed-energy technologies. [By mid-November 1992, that number had increased to 25.]

Lungs / 13 rain
Cells

Toward a Psycho-Civilized Society

by David G. Givari

The background to the development of anti-personnel electromagnetic weapons can be traced by to the early-middle 1940's and possibly earlier. The earliest extant reference, to my knowledge, was contained in the U.S. Strategic Bombing Survey (Pacific Survey, Military Analysis Division, Volume 63) which reviewed Japanese research and development efforts on a "Death Ray."

Whilst not reaching the stage of practical application, research was considered sufficiently promising to warrant the expenditure of Yen 2 million during the years 1940-1945. Summarizing the Japanese efforts, allied scientists concluded that a ray apparatus might be developed that could kill unshielded human beings at a distance of 5 to 10 miles. Studies demonstrated that, for example, automobile engines could be stopped by tuned waves as early as 1943. () It is therefore reasonable to suppose that this technique has been available for a great many years. Research on living organisms (mice and ground hogs) revealed that waves from 2 meters to 60 centimeters in length caused hemorrhage of lungs, whereas waves shorter than two meters destroyed brain cells.

However, experiments in behavior modification and mind manipulation have a much more grisly past. Nazi doctors at the Dachau concentration camp conducted involuntary experiments with hypnosis and narco-hypnosis, using the drug mescaline on inmates. Additional research was conducted at Aushwitz, using a range of chemicals including various barbiturates and morphine derivatives. Many of these experiments proved fatal.

Following the conclusion of the war, the U.S. Naval Technical Mission was tasked with obtaining pertinent industrial and scientific material that had been produced by the Third Reich and which may be of benefit to U.S. interests. Following a lengthy report, the Navy instigated Project CHATTER in 1947. Many of the Nazi scientists and medical doctors who conducted hideous experiments were later recruited by the U.S. Army and worked out of Heidelberg prior to being secretly relocated to the United States under the Project PAPERCLIP program. Under the leadership of Dr. Hubertus Strughold, 34 ex-Nazi scientists accepted "Paperclip" contracts, authorized by the Joint Chiefs of Staff, and were put to work at Randolph Air Force Base, San Antonio, Texas. By 1953 the CIA, U.S. Navy and the U.S. Army Chemical Corps were conducting their own narco-hypnosis programs on unwilling victims that included prisoners, mental patients, foreigners, ethnic minorities and those classified as sexual deviants. ()

It was not until the middle or late 1970's that the American public became aware of a series of hitherto secret programs that had been conducted over the preceding two decades by the military and intelligence community. () Primarily focusing on narco-hypnosis, these extensive covert programs bore the project titles MKULTRA, MKDELTA, MKNAOMI, MKSEARCH (MK being understood to stand for Mind Kontrol), BLUEBIRD, ARTICHOKE and CHATTER. The principal aim of these and associated programs was the development of a reliable "programmable" assassin. Secondary aims were the development of a method of citizen control. ()

that first occurred in 1974. Lawrence Pinneo, a neurophysiologist and electronic engineer working for Stanford Research Institute (a leading military contractor), "developed a computer system capable of reading a person's mind. It correlated brain waves on an electroencephalograph with specific commands. Twenty years ago the computer responded with a dot on a TV screen. Nowadays it could be the input to a stimulator (ESB) in advanced stages using radio frequencies" [xvi]

In the event, narco-hypnosis was found to be less than reliable, although some writers and observers dispute this. [xvii] Additional studies conducted by Dr. Ewen Cameron, and funded by the CIA, were directed towards erasing memory and imposing new personalities on unwilling patients. Cameron discovered that electroshock treatment caused amnesia. He set about a programme that he called "de-patterning" which had the effect of erasing the memory of selected patients. Further work revealed that subjects could be transformed into a virtual blank machine (Tabula Rasa) and then be re-programmed with a technique which he termed "psychic driving". Such was the bitter public outrage, once his work was revealed (as a result of FOIA searches) that Cameron was forced to retire in disgrace.

Of interest too is Dr. John C. Lilly [xviii] who was asked by the Director of the National Institute of Mental Health (NIMH) to brief the CIA, FBI, NSA and other military intelligence services on his work using electrodes to stimulate, directly, the pleasure and pain centres of the brain. According to Lilly he refused. However, as revealed in his book he continued to do "useful" work for the national security apparatus. Lilly's work took place in 1953. Another scientist, Eldon Byrd, - who worked for Naval Surface Weapons Office - was commissioned in 1981 to develop electromagnetic devices for purposes including "riot control", clandestine operations and hostage removal. [xix]

From 1965 through to 1970, Defense Advanced Projects Research Agency (DARPA), with up to 70-80% funding provided by the military, set in motion operation PANDORA. This project was to study the health and psychological effects of low intensity microwaves with regard to the so called "Moscow signal" - an episode when the US embassy Moscow was bombarded by Soviet microwaves.. Pandora research included (under US Navy funding) studies demonstrating how to: induce heart seizures, create leaks in the blood brain barrier, and the production of auditory hallucinations. Despite attempts to render the Pandora programme invisible to scrutiny, FOIA filings revealed memoranda of Richard Cesaro, Director, DARPA, which confirmed that the programme's initial goal was to "discover whether a carefully controlled microwave signal could control the mind." Cesaro urged that these studies be made "for potential weapons applications." [xx]

WORLD OPINION IS NOT READY FOR THIS

Following immense public outcry, Congress forbade further research and demanded that these projects be terminated across the board. But as Victor Marchetti, a former CIA agent later revealed, the programmes merely became more secret and built-in a high element of "deniability." [xxi] Despite the fact that many of these projects revolved around the use of narcotics and hallucogenics, projects ARTICHOKE, PANDORA and CHATTER clearly demonstrated that "psychoelectronics" were a high priority. Indeed, an anonymous informer (humorously known as "Deep Trance") told author John Marks; that beginning in 1963 mind control research strongly emphasised electronics.

Doll accepts low ORs in EMF data

MY wife, Jean, and I attended a lecture by Sir Richard Doll at the UK NRPB on 21st May. He was talking about EMFs and cancer and neuro-degenerative diseases (such as Alzheimer's and ALS).

He only talked about magnetic fields and only mentioned electric fields in passing. He was also 10-fold too high in his estimate of "typical background magnetic fields" which he put at 500 nT instead of the 40 to 50 nT which is the universally accepted UK norm. Further, he said that he increasingly felt childhood leukaemia was not genetically linked through families.

I asked the first question which was about Odds Ratios (OR = 2 means that something occurs twice as often in one group of people [cases] compared with another [the controls]). It has often been said that the trouble with EMF-related ORs is that they are too low - typically in the range 1.5 to 3.5, whereas the smoking ORs are over 20.

Recently an US epidemiologist, Dr Sam Milham, re-analysed Doll's own data presented in his 1956 (Doll & Hill) paper which showed that heavy smokers were 23.7 times more likely to die from lung cancer than non-smokers. However, when

you compare the figures for Heavy Smokers vs Light and Moderate ones the ORs fall to 3.5 and 1.9. When you compare light smokers with moderate ones you get an OR of only 1.8 (*Eur J Oncol* 1998;3:93-100).

I stated these figures and then asked Sir Richard whether, for EMFs, are we not comparing lightly exposed with moderately exposed people and wouldn't that mean we should only be expecting ORs of around 2? His answer was a good one...

"Yes, for EMFs we do not have any non-exposed and very few highly exposed people, so ORs are likely to be quite low."

This is quite an admission as no longer should the authorities be allowed to dismiss ORs of around 2 as being too low to be of much consequence. Their arguments have often been along the lines: "If EMFs were a real problem we should be seeing ORs of about 20, like for smoking".

Home Electrical Appliances

The above-titled manual (sub-titled 'and House Wiring: Reducing the health risks') has been compiled by myself and Jean. The price is £8.50 inc p & p. Ring 0897 100800 for payment and address details.

'joint funding'. And they have limited the approved labs to:

In Vivo Cancer: RCC Switzerland; Fraunhofer, Hannover, Germany; BioScience, Italy; ARCS, Seibersdorf, Austria.

In Vitro Cancer: PIOM, Bordeaux, France; DES-Kupio, Finland; ENEA, Rome, Italy; NRPB, Didcot, UK.

Non-cancer studies: Karolinska Institute, Sweden; ULP, France; NRPB, Didcot; MRC Cognition Brain Unit, Cambridge.

Most of the labs which have so far done ground-breaking EMF health effect research are not listed. This is direct industry manipulation of human health-related research which might otherwise point out EMF safety problems.

In the meantime, many good labs like Henry Lai's at the University of Washington are struggling to survive at all. All funding dries up. Where is the Bristol University laboratory of Dr Alan Preece, which carried out the pilot mobile phone human cognitive study that I health Minister Tessa Jowell singled out for praise? I could list a number of key labs and researchers who will not receive a penny of the W10 funding because the industry is

pulling the money strings.

What is the common factor? Those left out have all reported EMF-bioeffects which cause considerable problems to the industry and governments if proven correct.

Once again, this seems a quite unacceptable influence on what is meant to be public health science. Although the House of Commons Select Committee on Science and Technology (see page 1) have recommended much more independently funded research, unfortunately, with about £1.5 billion of new, third generation mobile communications operators' licences coming up for auction early next year, I suspect heavy pressure will be brought to bear on their political masters by the well-endowed industry lobbyists.

Corney case dropped

SOLICITORS Thompsons have dropped the case of Steve Corney after receiving advice that there was not enough evidence in the scientific literature to stand a chance of winning. Mr Corney is not happy with this outcome and may ask for his case to be considered 'out of time' if and when enough evidence becomes available to back up his claims alleging mobile phone radiation damaged his brain.

Firms cash in with remote earpieces at inflated prices

MOBILE phone manufacturers and dealers are cynically exploiting the real health concerns of users by selling remote earpieces at vastly inflated prices.

The hands-free earpieces can be manufactured for under £1 but are being sold to concerned users for anything up to £40, the cheapest at £10. Since the health issue has really started to get a lot of media coverage, dealers have seen sales of hands-free kits increase 10-fold, with profits estimated at £35m in the last six months, according to *The Sunday Times* (8 August), who were offered earpieces for .60p each from a Taiwan factory.

Motorola is reported to be selling 100,000 earpieces a month at between £20 and £40 each. It is estimated that in total 600,000 earpieces are being sold every month.

In a recent issue of the industry magazine *This is Mobile Business*, dealers gloat over the huge increased sales that worries over radiation are generating, in some cases up to 10-fold. One dealer is quoted as saying that the evidence of a cancer link was 'the best bit of advertising that hands-free kits could have received.'

Defending the mark-up between wholesale and retail price, a Nokia spokeswoman said that the final price takes account of marketing, shipping, distribution, and research and development costs.

However, as some, including myself, have pointed out, earpieces may not provide the amount of protection against radiation that users believe they are getting, especially if they keep their mobile on their body, and also may actually transmit high electric fields into the ear.

US military accepted MW bioeffects 25 years ago!

A DISTURBING new book has just been published: *Remote Viewing* by Tim Rifat. Subtitled 'the history and science of psychic warfare and spying', it reproduces about 250 pages of recently released Pentagon, DIA, etc, documents from the mid-1970s, released under US Freedom of Information laws, which state definitely that the low-level microwave effects that the FCC/WHO/ICNIRP are still denying were already fully acknowledged by the senior military 25 years ago!! Pages and pages of useful papers! A good read which will almost certainly cause many ripples.

Published by Random House/Century Press, London, August, 1999. ISBN 07126 7908 1, £17.99, 1 hardback.

World Health Organisation - Organisation Mondiale de la Santé

US Department of Health, Education and Welfare

Food and Drug Administration

Scientific Council to the Minister of Health and Social Welfare, Poland

Proceedings of an International Symposium Warsaw - Poland 1973

biologic effects and health hazards of microwave radiation

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The Secret Use Of Microwaves By British Police And Army

By Tim Rifat

7-18-1

Introduction by Ivan Fraser
ivanfraser@cablenet.co.uk

The author of these articles, Tim Rifat, is Europe's foremost independent author and scientist specialising in psychotronics, the use of biophysical and electronic technology to influence and kill the human organism; his forthcoming book: Remote Viewing, gives hints of the breakthroughs he has made in the physics of psy-warfare.

The history of mind control at a distance, remote mind control technology (RMCT) begins in America with the research of Dr Ross Adey and his colleagues in the late '60's, working on the CIA-funded Pandora Project. Adey found that ELF (extremely low frequency) signals on the region of 1-20 Hz (with 0.1 increments having different effects), had bioactive and psychoactive effects. The research was important to the CIA for they wished to find frequencies which could mind control humans from a distance (RMCT). Pandora researchers discovered that the 6-16 Hz region had drastic effects on brain and on nervous and endocrinal systems. This could enable major dysfunction in the target victim if research on cats and monkeys could be duplicated - the research on human victims still remains classified.

A major problem was that ELF transmissions need vast antennae arrays; Adey's research showed that pseudo-ELF, caused by pulse or amplitude modulated microwave, UHF or RF carrier waves at ELF frequencies not only duplicated the psycho- and bioactive effects of ELF, but due to the highly penetrative effects of S-band microwaves (low frequency microwaves) or UHF and RF these

MICROWAVE MIND CONTROL

by Tim Rifat

Microwave Phones | UK Intelligence Forces and Mind Control | Mind Control
References | Learn Remote Viewing

MICROWAVE PHONES – ARE THEY KILLING US?

As a scientist researching into microwave weapons used on the general public, evidence that the GM900 microwave network as used by Vodafone and British Telecom, is a major health hazard, has come to my attention. Defence Intelligence Agency (DIA) documents entitled: *Biological Effects Of Electromagnetic Radiation (Radiowaves and Microwaves) Eurasian Communist Countries*, show that microwave frequencies similar to those of the cellular phones can cause health problems in the following areas:

- Blood.
- Cardiovascular System.
- Cells.
- Central Nervous System.
- Digestive System.
- Glands.
- Metabolism.
- Reproduction.
- Visual System.
- Internal Sound Perception.

Equipment to test the frequency and intensity of microwave phones shows that they produce signals similar to microwave ovens. Two Vodafone cellular phones were producing 100mW/cm² and 50 mW/cm² respectively. The danger level for microwave ovens is 5mW/cm² and the Russians regularly used 10 mW/cm² for weapon research. These Vodafone phones will therefore cause significant health problems if used. A variety of cell phones can be tested to see how dangerous they are.

The GM1800 system used by Orange uses higher frequency microwaves. Australian scientists found this caused cancer in mice exposed to radiation of this type. The documents in my possession show that microwaves pass deeply into the body and can have a negative effect on the brain and body.

The DIA research dates from 1976 and shows the dangers were known about over twenty years ago. The Soviets used the frequencies and intensities used by mobile phones, 1800 MHz and 900 MHz, as weapons. It is a rule of the intelligence community that you hide things in plain view, getting the public to accept microwave mind control weapons which effect their behaviour under the guise of mobile phones was a stroke of genius. Getting the public to pay for these microwave mind control devices, so their brains and behaviour can be damaged, to make them more docile and easy to control, was pure diabolical genius.

UK INTELLIGENCE FORCES AND MICROWAVE MIND CONTROL

Microwave weapons that turn people into stressed, confused, submissive zombies are being used in

Mind control and the UK

As an offshoot of research into ways of enhancing psychic spying by electronic means, methods for remote influencing by purely electronic means – that is, without the psychic element – have also been devised.

Britain was the first discoverer of microwave technology, used for radar in the forties, and therefore it had a commanding lead over everyone else in the West in this field. Research into the use of microwave technology being specifically applied to mind control began in the fifties at a British research establishment, which looked for ways of controlling the British population by this means.

Project Pandora, launched in the sixties by the CIA, was a research programme looking into the effect of electromagnetic radiation on brain function*. One of the leading lights

*Ross W. Adey: 'Neurophysiologic Effects of Radiofrequency and Microwave Radiation', Bulletin of the New York Academy of Medicine, Vol 55 No 11, Dec 1979; 'The Influences of Impressed Electrical Fields at EEG Frequencies on Brain and Behaviour, in Behaviour and Brain Electrical Activity', Burch, N. and Altshuler, H.I., eds, Plenum press, 1975; 'Effects of Modulated Very High Frequency Fields on Specific Brain Rhythms in Cats', Brain Research, Vol 58, 1973; 'Spectral Analysis of Low Frequency Components in the Electrical Activity of the Hippocampus During Learning, Electroencephalography and Clinical Neurophysiology', Brain Research, Vol 23, 1967; 'Nexus, Military Use Of Mind Control Weapons', by Judy Wall, Vol 5 No 6, Nov 1998; *The Encyclopedia of Mind Control*, Adventures Unlimited Press, 1997; also *Secret and Suppressed* by Jim Keith, Feral Press, 1993.

in the Pandora project was a Dr Ross Adey. His work at the Brain Research Institute of the University of California has shown that there is a biological reaction in the brain to electromagnetic (EM) radiation. This reaction was found to be dependent on the frequency, amplitude and dose of the ultra-high-frequency (UHF) or microwave radiation used. The important factor in using microwaves for mind control was found to be extremely low frequency (ELF) signals. These ELF frequencies were picked up by the brain and, depending on their frequency, would modify behaviour and influence health. This meant that carefully modulated microwave beams could be used remotely to control brain function. Project Pandora was a programme established under the auspices of the Defense Advanced Research Projects Agency (DARPA) to investigate EM mind control utilising radio frequency, and direct 'neural manipulation by remote radar'. The Director of DARPA is on record as stating, 'The programme's initial goal was to discover whether a carefully controlled microwave signal could control the mind ... for potential weapons applications ... After testing a low-level modulated microwave signal on a chimpanzee, and within approximately a week causing stark performance decrements and behavioral disorganization, the potential of exerting a degree of control on human behavior by low-level microwaves seems to exist.'

The seventies brought an even darker side to the story, with the revelation to the American public that the Russians had been microwaving the US embassy in Moscow since 1965. One third of the staff developed abnormal white blood cell counts and suffered chromosomal damage. An unusually large number of illnesses were reported by the staff. US Ambassador Walter Stoessel developed a rare blood disease similar to leukaemia, suffering headaches and bleeding from the eyes. He was reported as telling his staff that microwaves

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ABSTRACT

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Present and future federal regulatory processes which may impact the permissible levels of microwave radiation emitted by the SPS Microwave Power Transmission (MPTE) have been studied. An historical development of U.S. occupational and public microwave "standards" includes an overview of Western and East European philosophies of environmental protection and neurophysiology which have led to the current widely differing maximum permissible exposure limits to microwaves. The possible convergence of microwave standards is characterized by a lowering of Western exposure levels while Eastern countries consider standard relaxation. A trend toward stricter controls on activities perceived as harmful to public health is under way as is interest in improving the federal regulatory process. Particularly relevant to SPS is the initiation of long-term, low-level microwave exposure programs. Coupled with new developments in instrumentation and dosimetry, the results from chronic exposure program and population exposure studies could be expected within the next five to ten years. Also discussed is the increasing public concern that rf energy is yet another hazardous environmental agent.

TIME-DEPENDENT HEMATOLOGICAL CHANGES IN WORKERS EXPOSED TO ELECTROMAGNETIC FIELDS

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A World War II-era study, involving the effects of electromagnetic fields (EMFs) emanating from radars and high-frequency radios on the blood of exposed workers, was analyzed for evidence of the effect of time in the manifestation of changes in the hematological system. Statistically significant correlations between increasing white blood cell count and average daily exposure, months of exposure, and total duration of exposure to EMFs were found. Changes in cell count were within the normal range, and thus their relation to epidemiological studies linking EMFs and leukemia, if any, is unclear. Results suggest that the time of exposure may be an additional factor (along with field strength, and perhaps frequency) in ascertaining the safety of EMF exposure.

The rôle of time in the elaboration of biological effects in human subjects due to exposure to electromagnetic fields (EMFs) is controversial. Acute effects arising from neural stimulation and tissue heating have long been recognized,⁽¹⁾ and the goal of obviating health risks mediated by these mechanisms was the rationale for the original standard for safe exposure levels of EMFs promulgated by the American National Standards Institute (ANSI).⁽²⁾ In this view risk is associated with EMF strength and perhaps frequency, but is independent of time of exposure. Over the years the adopted threshold has decreased,⁽³⁾ but time has consistently been excluded as a factor mediating risk; the ANSI standard is voluntary, but is widely followed in industry and government.⁽⁴⁾

In apparent contrast with the rationale for the voluntary standard, the EMF epidemiological studies are unanimous in imputing risk, if it exists at all, to situations involving long-term exposure. When job classifications were used as a surrogate for EMF exposure, more than the expected number of cases of leukemia were found.⁽⁵⁻⁷⁾ Among males who died from acute myeloid leukemia, an increased relative risk was found for the occupations that involved exposure to EMFs;⁽⁸⁾ similar results were found in other studies.⁽⁹⁾ Amateur radio operators died more often than expected from leukemia.⁽¹⁰⁾ In all these studies the subjects were exposed to EMFs for prolonged periods.

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There are several mechanisms by which the presence of an EMF over time could result in increased incidence of disease. The probability of oncogenesis could be increased in the presence of an EMF compared with its absence, in which case the role of time in manifesting increased disease levels would be a result of the cumulative probability of a rare event. Laboratory studies provide a possible molecular basis for the occurrence of EMF-induced events that might subserve oncogenesis.⁽¹¹⁾ Alternatively, cumulative EMF exposure could burden one or more of the body's regulatory systems, leading to a progressive escape from regulation. Since cancer of the blood-forming elements is frequently reported in connection with EMF exposure, it is reasonable to expect that any progressive change would be manifested in a phenotypic change in blood cells. The report of an association between EMF exposure and polycythemia might be an example of progressive dysregulation of blood-forming elements.⁽¹²⁾ Another possibility is neuroendocrine-mediated immunosuppression, and evidence suggesting a role of the central nervous system has been presented.⁽¹³⁾

The applicability of a threshold-based standard that excludes possible time-based mechanisms can be evaluated by examining subjects exposed to similar EMFs for varying lengths of time: a correlation between time of exposure and a change in magnitude of a biological parameter would be evidence of the importance of time. Pertinent data was provided in a report published at the dawn of consideration of the EMF health-risk issue,⁽¹⁴⁾ and the results of an analysis of the effect of time on the measured parameters are provided here.

METHODS

During World War II, at the request of the Bureau of Ships, investigators at the Naval Research Laboratory (NRL) studied the health status of civilian personnel and the emission characteristics of the experimental radar and high-frequency radio equipment with which they worked. The purpose of the project was to determine whether the equipment gave off harmful radiation and, if so, to identify the harm produced. The expressed

AM. IND. HYG. ASSOC. J. (58) / February 1995

obviate - do away with
get around

PULSES

The US Government started researching electronic RMCT as a result of early work on the effects of EM radiation on human behaviour.

Microwave stimulation of the brain with extra-low-frequency (ELF) audiograms has been shown to affect brain function for RMCT.² This methodology is the basis of US RMCT. However, the EM field around the body can also be affected by other types of EM irradiation, electric fields and magnetic fields.

Ret 8
Dr Ross Adey, formerly of the Brain Research Center at the University of Southern California, and now at the Loma Linda University Medical School, California, worked on the CIA's infamous Pandora project. His research involved inducing of specific behaviour modifications by electromagnetic means, as well as inducing calcium efflux events to interfere with brain function-the so-called "confusion weaponry". (More recently, Dr Adey has been warning against the biological hazards of EM emissions from mobile phones.)

Dr Adey's research at the Brain Research Center has shown the existence of a biological reaction to EM radiation. This reaction was found to be dependent on the frequency, amplitude and dose of the microwave radiation used.

In the 1980s Dr Adey performed some crucial experiments using microwave carrier-waves modulated with ELF waves to modify brain tissue responses. He carried out experiments with cat brain tissue, showing that the binding of calcium ions to neuronal sites was affected by weak EM fields. These fields were of a frequency and amplitude similar to fields produced in mammalian bodies and detected on electroencephalographs (EEGs).

Dr Adey demonstrated how a 147-megahertz (MHz) field, which at tissue level had an intensity of 0.8 milliwatts per square centimetre, caused an efflux or release of calcium ions from the irradiated brain tissue. This response only occurred when the ELF modulation of the microwave carrier-wave had an amplitude modulated at 6-20 hertz (Hz). The maximum stimulation of the neurones took place at 16 Hz, but to either side of this frequency-range parameter there was no effect.⁸

Microwaves of a similar waveform were used in a US research facility by C. S. Blackman, who worked on the theory underlying the electronic RMCT devices now deployed worldwide. He noted a set of narrow field intensity parameters of microwave irradiation effects that was greatest at 0.75 milliwatts per square centimetre, causing the neurones to efflux calcium to the greatest extent.

Adey repeated Blackman's experiments and confirmed a microwave intensity parametric area of between 0.1 and 1.0 milliwatt per square centimetre, using a 450-MHz microwave carrier-wave amplitude modulated by an ELF of 16 Hz. He found that this set of EM parameters caused the largest calcium efflux in the neurones. When other EM parameters were used, they caused no response.

In comparison, ELF-modulated microwave radiation in the range of 6-20 Hz, at field intensities lower by several orders of magnitude than the above, caused a decrease of calcium ion efflux in the neurones. A useful observation was that the frequency and amplitude of the response of the neuronal brain tissue was the same whether it was stimulated or damped. There was a consistency in the magnitude of the response, i.e., a 10 to 15 per cent increase in calcium ion efflux using the higher intensities, and an identical reduction using the lower intensities described above.

Since the neurones are affected by EM fields, the EM mantle around our bodies-and anything that affects it-will also affect brain function.- The mechanism for this is that ELF-modulated microwaves can affect calcium efflux in the neurones, which can affect short- and long-term potentiation of the neurones with a concomitant effect on memory.

The Communications Industry is in the position where it is spiralling out of any person's ability to control it

An open letter Open Letter from Barrie Trower:

To whom it may concern...

The Communications Industry, because of its usefulness to Government, Finance, Intelligence gathering and Warfare, is really in the position where it is spiralling out of any person's ability to control it, with regard to advancing technology.

Initially, all systems "pulsed". However, when it was realised that stealth microwave warfare relies on entrainment of a brain from such pulses, now being used as a domestic instrument, the pulses had to be re-named as "modulations". The difference between them is infinitesimally small, but the effect is just the same. Only the name has changed.

I believe that this explains the **dramatic changes in behaviour** we are now witnessing - **group suicides, disruption in schools, aggression** and so on.

Over the years, I have compiled a list of known entrainment responses (followed by long-term potentiation) from these microwaves. It should be appreciated that each person will respond slightly differently, although the same area of brain/temporal/amygdaloid temporal/parotid/etc., will remain the same.

Pulses/Modulations
Per second/
Possible Result

- 1 Heartbeat Rhythm
- 1-3 Sleep Pattern
- 3-5 Paranoia/Hallucinations/Amnesia/Illusions/Drowsiness 'Absent' Feeling
- 6-7 Depression/Suicidal Feelings/Visual Distortion/Confusion
- 8-11 Cannot Relax/Feeling Unwell/Unhappy
- 11-13 Anger/Manic Behaviour/Problems with Movement/Flashes/Loss of Appetite
- 14-18 Small Seizures/Disturbed Orientation/Auditory/Visual Hallucinations
- 18+ Inability to make decisions/Sensory problems (sight/touch/sound)

- 24+** Confusion/Flickering/flashing lights/Dizziness
- 35+ Mania/Hyperactivity
- 40+ Anxiety/Sleep disturbance/Reaction time slowed/Unable to make decisions

** It is worth mentioning that a mobile phone with a pulse/modulation frequency of 25 could act directly on visual sight (if being held at head), or heartbeat (if in a chest pocket). A frequency of 25 can disrupt both visual and heart neurotransmitters.

Clearly a susceptible person may have any combination of these. Electrosensitive persons may recognise many of their own symptoms. My work on electrosensitivity and the brain can be found on <http://www.mastsanity.org>.

I think the problem is that young Governments and young communications engineers have no knowledge of Cold War warfare and don't know who to ask; even if they did, the Government would probably be in denial. The situation is a mess, made worse by greed.

If anyone would like clarification of any of the foregoing, or I can help in any way, please let me know.

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<http://omega.twoday.net/search?q=Barrie+Trower>

Vote delayed on antennas near San Rafael's Ecology House

http://www.marinij.com/marinnews/cl_11447920

Jennifer Upshaw

Posted: 01/13/2009 09:32:12 PM PST

Informant: Martin Weatherall