

Mind Control & Microwaves

by Stefan T. Possony

Has the Soviet Union developed a revolutionary new method for mood alteration or mind control using microwave radiation? Let's examine the evidence.

During the early 1960s it was discovered that the Soviets were bombarding the U.S. embassy in Moscow with microwaves, which are electromagnetic radiations with wavelengths between roughly 1 mm. and 50 cm. The "bombardment" apparently stopped in 1976, but began again in 1979. Most of the radiation has been limited to energies below 20 microwatt. That level of energy beamed at the embassy for fifteen years or more is above the Soviet health standard of 10 microwatt, yet far below the American health standard of 10 milliwatt.

This poses a double puzzle. Why should the U.S. be worried about radiation which by our health standards is supposed to be harmless, and why should the Soviets smother the U.S. embassy in radiation which they regard as harmful?

Some employees of the embassy were convinced that the Soviet microwaves had produced abnormal incidences of sickness and disease among U.S. embassy personnel. While the State Department continued to insist there was "no proof" that the microwave levels were dangerous, the agency did allow its employees in Moscow to transfer for health reasons linked to the bombardment, and personnel who claimed their health troubles were caused by radiation were indemnified. A study commissioned by the State Department ended up with a finding of "inconclusive" with respect to cancer as a likely result of microwave bombardment.

The U.S. ambassador to Moscow voiced his opinion that the Soviets were using microwaves to listen

to conversations within the embassy. The *New York Times* reported that the Soviets were attempting to disable American electronic monitoring devices used to listen in on conversations between the Kremlin and Soviet officials who used radios in their limousines. Neither explanation seems entirely convincing. U.S. experts with whom I have spoken believe that the patterns of microwave beams, frequencies and intensities used against the embassy were too irregular to serve any intelligence gathering purpose.

Did the Soviets intentionally aim the microwaves at human targets? Were U.S. embassy personnel guinea pigs in a Soviet experiment on the longterm effects of microwave exposure? Or is something more involved that the experts in Washington and the rest of us ignore?

Back in 1933, when Pavlov was still alive, Soviet scientists were researching how microwaves affect the central nervous system. They concluded that microwave exposure can cause psychological and psychosomatic alterations such as dizziness, loss of appetite,

irritability, emotional instability, depression, perceptual changes, diminished intellectual capacity and even hallucinations. Researchers in Czechoslovakia added to the list fatigue, headaches, mood changes, fear and nervous tension. Some of these symptoms were reported by U.S. embassy personnel.

But the principal finding was that microwave radiation alters the blood-brain barrier and that aberrant behavior can be provoked. With electrodes implanted in the brain, 30 microwatt waves can stimulate cats. If microwaves excite the brain directly, then it may be possible for the waves to carry sound and thereby implant ideas. The implications for mind control are staggering.

As of 1964, the CIA was interested in the behavioral effects of microwaves during brainwashing and interrogation. Nothing has surfaced about the extent or result of that interest. In 1976, reports circulated speculating that the strong Soviet broad band shortwave radio signals, which have interfered with communications all over the planet, could modify the alpha rhythms of the brains of large numbers of people.

Science writer Paul Brodeur, of the *New Yorker* magazine, in his book *The Zapping of America* (W.W. Norton, 1977), suggests that the Soviets attempted to transmit microwave messages to the U.S. ambassador in Moscow using the embassy telephone lines. Brodeur and other researchers also believe that microwaves can be grafted with radio and sound frequencies for direct transmittal.

Brainwaves occur at low microvolt levels accessible to microwave stimulation. However, the human brain functions at extremely low frequencies of 1-60 hertz, outside the microwave and

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very low radio range. Since the human nervous system reacts to harmonic frequencies of heat and light, the brain may also react to frequencies of higher harmonics which would mean that the frequency of the microwave beam need not be tuned down. (A Russian researcher allegedly used frequencies of .01-5 hertz, together with a magnetic flux density of 1000 gamma to alter human EEGs. A U.S. researcher affected brain waves at 3-13 hertz at 30

gamma.) Nerve fibers connecting parts of the brain with other parts conduct impulses at a rate up to nearly 1,000 per second. The impulses which control muscular coordination operate at 20 to 50 per second. Thus, there are in the brain and the nervous system different frequencies, some of which come close to frequencies for microwaves. The frequencies for thought are low, but microwaves could cause disturbances via motor capabilities and intra-brain

connections.

The only logical explanation for the bombardment of our Embassy which I discovered is that the Soviets are testing microwave brain equipments in order to learn from our counter-measures whether or not we know anything about the new technology. This constitutes an enterprise in scientific reconnaissance, and the stakes are high. If this technology works, direct and secret communications would be possible with persons who are otherwise inaccessible. Direct contacts with brains would revolutionize propaganda, espionage and subversion. The possibilities are endless.

UFOs and Microwaves

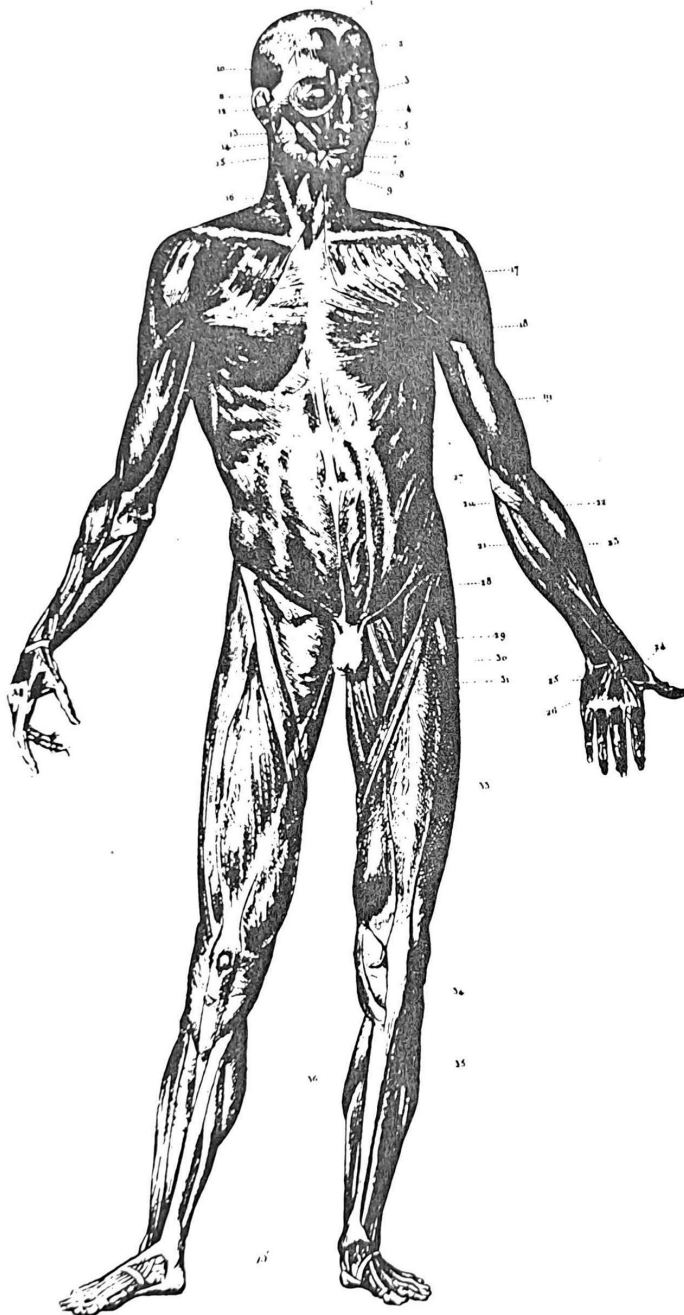
Some 25 years ago I disengaged myself from UFO investigations as an officer in Air Intelligence. I had learned the lesson that research on probes and travellers from deep space must be postponed until the first piece of solid information becomes available. I also decided that the "saucers" are not, and cannot be, vehicles for use in the earth atmosphere; and that if they constitute a threat to America they cannot be linked to any existing or conceivable aviation. I also concluded that serious people had been seeing something which resembled ball lightning.

While worrying about zapping it occurred to me that the UFO investigators of the early 1950s did not think about microwaves. Yet electromagnetic beams seem to explain some UFO phenomenology.

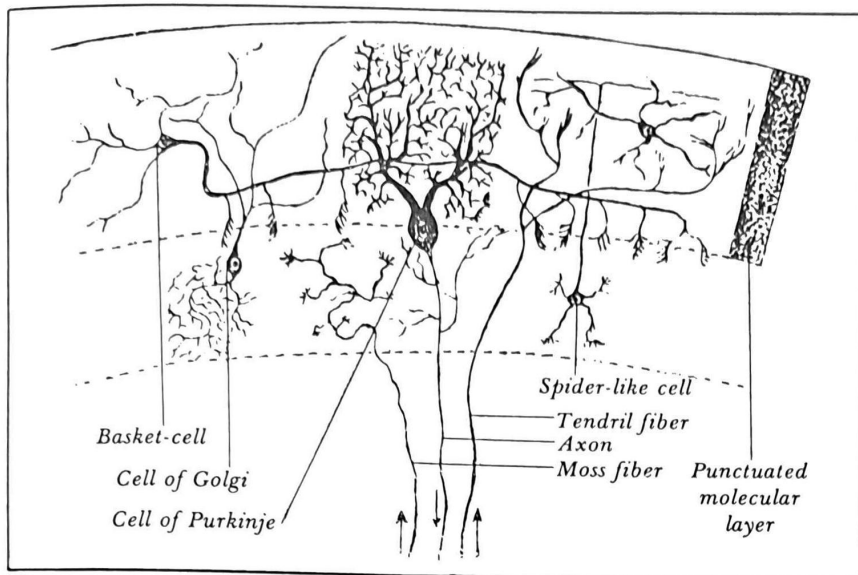
Struck by this idea I discovered Stanton T. Friedman's article in *Second Look* (June 1979), where he states that "EM effects"—meaning effects of microwaves—"continue to be associated with UFO sightings."

In the book *Ufology* (Celestial Arts: Millbrae, California: 1976) James M. McCampbell divides UFOs into two classes. They are either "manufactured objects" or obscure natural phenomena, hoaxes, or psychic projections. He assumes that witnesses tell the truth and suggests that their accounts be treated as raw data.

As I read the evidence he collected on this basis, reports on "vehicles," metallic surfaces and propulsion systems, the link between UFOs and microwaves became highly visible. Yet the author never noticed that he was presenting such a direct "case." Hence I found him trustworthy.



Microwaves may affect the entire nervous and circulatory systems. The microwave zapping of the U.S. embassy in Moscow also led to psychological disorders, suggesting that microwaves could be used selectively to create debilitating psycho-somatic disturbances.



Microwave frequencies match many nerve impulse frequencies within the brain. Using these frequencies, microwave researchers attempt to "graft" thoughts into the brain.

Radio and microwaves can transmit energy to the atmosphere and thereby create fields, low energy plasmas and "phenomena." Pulsed beams are particularly effective; continuous beams and escaping radiation also propagate energy. Within this context, the association between EM effects and UFO sightings is remarkable.

Specifically, the microwave hypotheses may explain:

- the soft glow, odors and sounds paired with sightings;
- the ball lightning characteristics of UFOs;
- some 16 phenomena of electromagnetic interferences in the area of sightings, e.g. with automobiles, radios, TVs and power lines;
- psychological and somatic difficulties of observers and unusual animal behavior near sightings;
- and above all, the unusual flight patterns of UFOs, such as extreme speeds at take-offs and climbs, speed bursts followed by instantaneous stops, prolonged zero speeds, rapid changes in altitude and direction, hovering and wobbling, undulating movements, silent flight and absence of sonic booms. In brief, the negation of gravity.

When McCampbell talked about "manufactured objects," he probably was not thinking about

manufactured microwaves. Nevertheless, after referring time and again to microwaves, he ended up with an unexpected recommendation: a large experimental program to be "centered on a microwave laboratory." Here he came close to assuming that UFOs might be a microwave phenomenon.

To be sure, the microwave hypothesis does not "explain UFOs." But it may provide a physical explanation of the most startling aspects of flying saucers.

Could the Soviets zap the entire U.S., as they zapped the U.S. embassy? Presumably yes. But would they go to the high expense of beaming microwaves from Russia to America for the purpose of creating a UFO craze or a mass anxiety neurosis?

Until we know better, it might be wise to adopt a more cautious hypothesis and assume that escaping radiation and radiation pumped into the air create electromagnetic fields in which intersecting and colliding pulsed microwave beams, under certain circumstances, produce semi-stable phenomena resembling UFOs. I hope the experts will take this theory and develop it from there. □

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