

UFO POTPOURRI

JOHN F. SCHUESSLER, P.O. BOX 58485, HOUSTON, TX 77258-8485
FAX (713) 488-3121

no. 389

APRIL 1995

INTERIOR LIGHTING FOR UFOs

The interior lighting of various sizes and shapes of UFO craft has been a major mystery for UFO researchers. Witnesses describe how the rooms and passageways are illuminated in some unusual way. It is not by conventional light bulbs. Rather, witnesses say that the light is more of a soft but bright glow, and the source is not easy to pinpoint.

Researcher Tom Burch has come up with one possible explanation for the lighting arrangement, based on some work done at the Sandia National Laboratories and reported in the *Washington Post* on 1/28/91. Tom's summary is as follows:

"The brightest new idea in lighting needs no electricity, works without a bulb or tube and looks like a glowing sugar cube, according to its creators at Sandia National Laboratories, which developed the lights for use in remote areas and deep-space vehicles. Illumination is achieved by bombarding glow-prone chemicals, called phosphors, with atomic particles from radioactive material such as tritium gas, an isotope of hydrogen. The earliest radio luminescent lights were made by trapping tritium in a phosphor-coated glass tube. But Sandia scientists have found ways to suspend both gas and phosphor in a clear block of styrene or a super-lightweight silicon foam, called aerogel, making unbreakable light cubes 10 times brighter than tube-type lights. Surround those cubes with photovoltaic cells, and the result is possibly a power source that will go for 20-plus years."

IMPLANTS FIND USES IN HUMANS

Abductees continue to describe how their bodies are affected by implants placed there by their alien abductors. When these reports first started coming in, the idea of implants was a futuristic concept. The closest thing to reality in human medical terms was the use of heart pacemakers. Now, all that has changed. Implants are being used for everything imaginable.

A bionic system implanted in the arm of a paralyzed man (*R&D Magazine*, March 1995) has helped him regain limited use of his hand. Stanford University researchers placed platinum electrodes in each of 47-year-old Dennis Conroy's seven arm muscles. When a current is sent through the muscles, they contract.

According to Los Alamos Laboratory researchers, a thermometer that can be implanted under the skin may lead to more success with heat treatment for deep-seated tumors such as brain malignancies.

Tumors confined to one place in the body, which

often recur after they are removed, have responded to high heat treatment. But doctors now must monitor the temperature through thermometers inserted in the tumor through the skin and tissue.

The implanted thermometer could take measurements without piercing the skin each time heat treatment is applied. It's designed to be implanted during exploratory surgery and left inside the body for the duration of a patient's cancer therapy.

The passive thermometer consists of a panel about the size of a face on a woman's watch, a loop shaped antenna and a threadlike plastic fiber. When it is implanted, the fiber is inserted in the tumor and the antenna and panel are just under the skin. The thermometer is activated only during treatment.

Temperatures between 107.6 and 113 degrees Fahrenheit are used in treating deep-seated tumors. With an implanted thermometer, the physician would have a real-time reading of the tumor's temperature.

MICROWAVES FROM UFOS MIGHT DAMAGE THE HUMAN BODY

In a number of UFO incidents where humans sustained medical injuries from the close encounter, the tendency has been to blame the problems on exposure to ionizing radiation. In some cases this might be true. However, in other cases, such as the Cash-Landrum case (12/29/80), the problem may be caused by exposure to non-ionizing radiation -- microwaves.

Opponents of this theory state that the thermal properties of microwave radiation are what do the damage to living cells. They don't recognize the non thermal effects.

Biophysicists classify the interaction of electromagnetic waves with biological matter in two categories: thermal and non thermal. Microwaves (which range from 300 million hertz (MHz) to 300 billion hertz (GHz) in the electromagnetic spectrum) can be thermally absorbed by causing a dipolar molecule, such as water, to oscillate in a frictional media, thereby dissipating energy in the form of heat. This thermal absorption mechanism is relatively well understood and forms the basis for the design of microwave ovens, diathermy medical instruments and industrial sealing devices.

Non thermal means of absorption are far more obscure -- and more controversial since they are thought to occur at relatively low power levels to

13/6-95

which a larger segment of the population might be exposed. Moreover, at low power densities it is difficult to obtain statistically significant data from laboratory experiments on animals; the results from such experiments as well as epidemiological studies on humans chronically exposed to low level microwaves have been largely inconsistent.

This is why biophysicists at the National Center for Devices and Radiological Health at the Food and Drug Administration look for fundamental absorption mechanisms at the molecular level. They observed genetic aberrations in the microwave range in tests on laboratory animals that are not easily explained by thermal affects.

Researchers demonstrated that DNA molecules can non thermally absorb energy from microwaves partially because the DNA chains exhibit a phenomenon known as resonance. All physical systems have some sort of resonance or natural frequency. A violin string, for example, has a resonance frequency that is directly related to its length, mass and tension; if plucked and left alone, the string will vibrate happily at that frequency. If the string is made to vibrate at another frequency by an external force, it will do so, but without much enthusiasm. When the driving frequency approaches the resonance frequency, however, the amplitude of the vibrations will increase many fold and the string will resonate in harmony with the driving force.

And so it is with DNA molecules. At one time it was believed that the DNA chains would resonate, but that the surrounding aqueous solution would dampen the oscillations of the helix. Instead, however, it was recorded in a test that the absorption coefficient for the DNA molecules was 400 times greater than that for the solvent alone at 11 GHz. Dampening in the DNA did not occur.

Resonance absorption means you're packing an awful lot of energy into a very small number of modes and usually at a fairly small region of space. That is worrisome because that's about the worst place in the body you would want resonant absorption -- right in the DNA. The localization of energy and the large oscillations of the DNA helix induced resonance could conceivably result in a number of adverse affects such as knocking off a repressor molecule that normally inhibits a certain transcription process.

Researchers say that their preliminary data shows that microwaves can interact with DNA in non-linear, complex structures and this indicates that resonance can occur in whole plasmids -- small rings of DNA that are found outside the

chromosome. Experiments have also shown that microwaves can disrupt chromosome-associated proteins and cause chromosomes to uncoil.

This research indicates that microwaves can have some untoward effects on the human body in addition to the well-known thermal effects. The controversial bioeffects of electromagnetic devices including microwave ovens, broadcast towers, radar installations and power lines will probably not be easily resolved. It would affect nearly every part of the communications business of the U.S. and the world. However, it does verify the contention that something is happening to humans when they have a UFO close encounter. They are at times physically harmed. With this new information, we can more responsibly look to microwave based systems as the cause. Whether human or alien-based, we may be one step closer to a solution.

----- WHY WERE U.S. RADIATION TESTS KEPT SECRET?

If we could figure out why the large number of radiation test conducted on innocent Americans was kept secret, perhaps we might have a clue why the UFO reports and interactions are kept secret. Perhaps an article in *The Houston Post*, 12/15/94, can give us a clue.

"Government concern over lawsuits and public relations played a paramount role in decisions in the late 1940s to keep information about human radiation experiments secret, newly disclosed documents show.

"The memos and letters, mostly exchanges between scientists and officials from the Atomic Energy Commission from 1947 to the early 1950s, suggest that national security -- long cited as the reason for the secrecy -- may often have been only a secondary consideration, researchers said.

"The documents, many of them only recently declassified, were found by investigators among hundreds of boxes of papers in a warehouse at the Energy Department's Oak Ridge facility in Tennessee.

"They confirm, as previously hypothesized, that in the immediate post-war period information on human experimentation, including plutonium experiments, was kept secret in anticipation of public relations and legal problems, says a memo summarizing the findings.

"The paper trail only recently discovered, suggests that national security often was not even raised as an issue. The only concern was exposure to lawsuits and hurting public relations.