

1 then ignored it. Well we no longer can act as though non ionizing radiation is
2 innocent and we longer can act as though the lack of thermal effects, of
3 radiofrequency means that there are no health effects and this is the kind of
4 innocence that I wanted to put an end to.

5 CARNEY: Next and last, Dr. Litovitz at a congressional staff
6 briefing. If you look you will see me sitting to his side in one shot and he
7 definitely saw a correlation of many health effects from this kind of radiation that
8 impairs the body's ability to repair itself from daily damage. And not only was
9 this congressional staff briefing very well received, the national league of cities
10 has now endorsed this legislation and that is your exhibit 91. And the legislation
11 we will ask that it be reintroduced should Lake Cedar Group once again threaten
12 preemption. Dr. Ted Litovitz is a physicist at Catholic University,
13 BioElectricomagnetics Laboratory and has numerous publications. TAPE- The
14 question today is very simple. U.S. legislators are being asked by consumer
15 groups to put in place some legislation. They're concerned. They're worried.
16 The real question is are they irrational? You cannot start making legislation
17 which limits commerce on the basis of irrational fear. In general what you worry
18 about at first is can an electromagnetic field have any effect at all on your body?
19 The sunlight has an effect on your body but it's not going to kill you. So just
20 because there's a biologic effect doesn't mean that there is a health hazard.
21 Then after you find biologic effects in the laboratory you have to ask the
22 question are there health effects? The first question is have any
23 electromagnetic field effects been seen for non thermal radiation? Now what

1 you're asking, why is he worried about non-thermal? Because the standards
2 that protect you today are based upon the heating of the tissue. That's your
3 total protection. If there's any effect out there that can cause a biologic effect on
4 your tissue that doesn't heat it that isn't levels well below the energy necessary
5 to raise the temperature several degrees you have no protection by law. So it's
6 an enormously important issue. Are there any non thermal effects? Many
7 papers have been reported in which they've seen non thermal effects below
8 those levels considered safe by the government, government agencies. There's
9 a paper that show's psychological changes at .03. That's much less, effects on
10 immune system, effects on calcium efflux, the cells, induction of DNA damage.
11 The first was 50 times less than the standard, the second one's a 100 times less
12 than the standard, the third 300 etc. The numbers are below the standard. The
13 big question is what's protecting you? Now it could be that these effects are
14 occurring but they don't mean a thing. It needs to occur in a laboratory or in
15 some people. So it could be the standards are great. So let's look a little better.
16 It is so obvious that you can get biologic effects at levels 75,000 times lower
17 than the standards, if you can get biologic effects why is there a controversy?
18 Why doesn't everybody come in and say oh thermal standards don't mean a
19 thing? But that isn't true. Not everybody believes. Those who defend the
20 thermal standards defend them honestly. What's one of their arguments? Well
21 one of their arguments is that a lot of this research is not replicated. There
22 seems to be a great deal of replication in the field whether you're talking power
23 lines or cell phones. You do studies in laboratories, you find replication is a big

1 issue. Let's take a quick aside. Is this replication problem only a property of this
2 junk science called bioelectricmagnetic effects or is it a general property? The
3 answer is does replication problems occur only in bioelectricmagnetic effect?
4 No. Let's take an example. We take an unknown Drug x. We study it's effects
5 in Norway rats. We ask are these rats born, born deformed when this drug is
6 put into them? And we do an experiment. Sixty percent of them are deformed.
7 You'd never let that on the market. But somebody else does an experiment.
8 They're not deformed. It's a lack of replication. So what do you do? Today in
9 the bioelectric magnetic field if something's not replicated the answer is the
10 people who got an effect are incompetent. Standard answer. Those who see
11 nothing are competent. Scientists are divided down the middle. You guys are
12 competent because you don't see a thing. It turns out this experiment was done
13 in one laboratory. You've got two strains of the same rat. It was only a slight
14 genetic difference in the ability to handle the drug. The drug was called
15 thalidomide and 10,000 kids who were deformed wished that the replication
16 issue had been studied more carefully. The basic defect that we see in all
17 cancer has to do with DNA damage and it's been shown unequivocally in the
18 hundreds, hundreds of studies that the same radiation that comes off those
19 towers causes DNA damage. And when the DNA is damaged you can lose
20 control of cell growth and that thus causes cancer and that is a scientific fact.
21 And for someone to sit there and say don't worry about it. This has no effect.
22 It's absolutely ludicrous.