

MWO ROUNDUP

by Peter A. Lindemann

After years and years of guessing, hoping and wondering what Lakhovsky was really doing, the fish is about to hit the pan! In the last two issues of this journal, a number of schematics have been reprinted for devices capable of producing oscillations of multiple wavelengths simultaneously. In this article, I will present another schematic of an easy to build MWO submitted by an associate from Texas. But first I would like to go over some of the basic information that all of this is about and attempt to make some sense of it, finally.

The understanding that I now present is based on an article written by Georges Lakhovsky in 1941 entitled Radiations and Waves - Source of Our Life, excerpts of which appear on pages 98 - 100 in The Lakhovsky MULTIPLE WAVE OSCILLATOR Handbook, second edition, by BSRF.

Quoting Lakhovsky, "I have shown in my books, The Secret of Life, and especially in The Earth and Ourselves, that every living cell draws its oscillatory energy from the field of secondary radiations resulting from the ionization of the geological substances of the earth by cosmic radiations." By this I believe he is saying that there is an energy coming to this planet from outer space that enters the earth and causes a reaction that brings into being a secondary energy field that every living cell draws its oscillatory energy from. At first glance, it may not register, but on careful examination, this "model" is entirely consistent with that of Wilhelm Reich's Orgone Energy model. Reich states that a great stream of Cosmic Orgone Energy bathes the planet and that this feeds the planetary orgone envelope that supports all of the life on the planet. Both Reich and Lakhovsky agree that anything that interferes with this process is cause for some disease condition.

Lakhovsky also clearly saw that these secondary energies coming to us from the

ground were not always beneficial, depending on the geological formations underneath. "But certain natural radiations are particularly toxic, especially those originating in earth grograms [coarse ground formations]. Many cancer cases have been attributed to these toxic radiations and proven experimentally, notably in Germany by Dr. Rambeau of Marburg. Therefore, earth radiations sometimes cause disturbance of the cellular oscillatory equilibrium of the organism." Here, when Lakhovsky refers to "natural radiations" that are toxic, he was not talking about radioactive emissions or chemical poisons, but what are now called geopathic zones.

"To re-establish this equilibrium, I

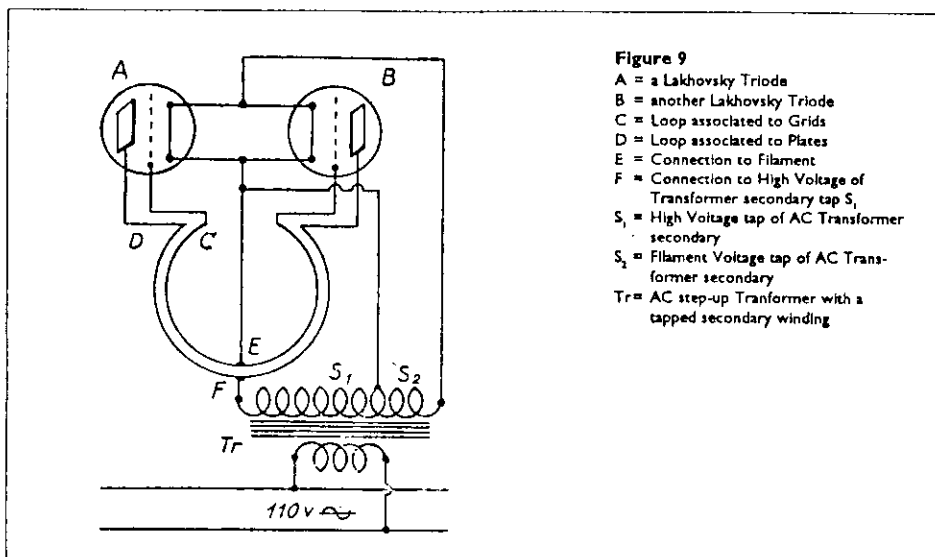


Figure 9

- A = a Lakhovsky Triode
- B = another Lakhovsky Triode
- C = Loop associated to Grids
- D = Loop associated to Plates
- E = Connection to Filament
- F = Connection to High Voltage of Transformer secondary tap S₁
- S₁ = High Voltage tap of AC Transformer secondary
- S₂ = Filament Voltage tap of AC Transformer secondary
- Tr = AC step-up Transformer with a tapped secondary winding

thought of creating, in 1923, a constant compensating field of very short radiations (2 to 10 meters in wave lengths) to neutralize the action of the disturbing rays, and give the living cell the necessary stimulation for a return to its normal oscillation." "Finally I adopted the oscillator with symmetrical cross leakage comprising two triodes. The oscillating circuits formed a single spiral, branches between the two grilles and the two anodes. It was fed directly by alternating current from the local supply circuit." This clearly describes the Radio-Cellular Oscillator circuit we printed as figure 9 in the Jan-Feb 1992 issue of this journal in the article by Jorge Resines on page 4 and reprinted here. "With this short-wave apparatus I was able to cure

plants inoculated with cancer. For six years at the Saltpetriere I observed and checked the effects of these short waves. Using very low power, from 10 to 12 watts, and a limited duration of treatment, I succeeded in curing cancer in human beings, but also had to record some failures."

Lakhovsky goes on to say that by 1928, the news of his successes had caused widespread interest in Europe, and that researchers were building higher and higher powered units. He felt that more power just caused dangerous thermal effects that could kill micro-organisms but also healthy cells. This is no doubt the advent of today's Diathermy machines, a direction that Lakhovsky clearly rejected.

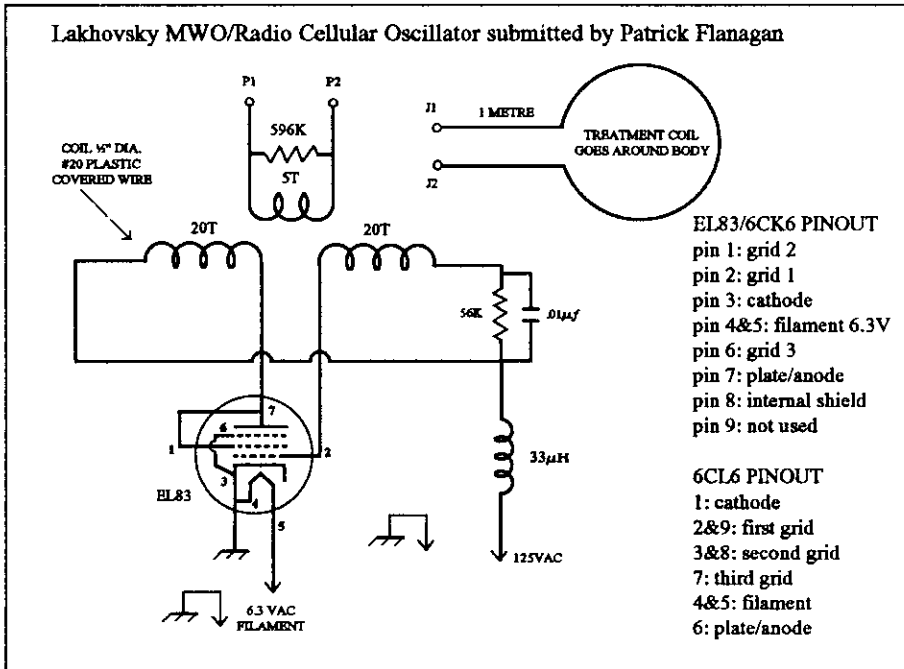
At this stage, he changed his fundamental assumption. "I thought it possible to obtain better results by administering an oscillatory shock to all the cells in the organism simultaneously. Such a shock, very brief, produced by dampened or weakened electro-static waves, does not provoke thermal and prolonged effects and involves no risk of burning

living cells." Mind you, before this, Lakhovsky had already succeeded in curing various cancers with 10 watts of electro-magnetic propagations between 2 and 10 meters. Also, he never mentions that thermal effects are a problem at these power levels. These "Radio-Cellular Oscillators" were his first successful device and they remain very, very effective for many disease conditions. But he was not satisfied.

"After much research I was able to construct an apparatus creating an electro-static field covering all frequencies from 3 meters to the infra-red, so that every cell can find its natural frequency and vibrate in resonance." Here, Lakhovsky shows us his reasoning. He rejected higher power outputs and went for a broader spectrum of shorter wave lengths. He also set aside electro-magnetic propagations, for the time being, and began experiments with the electro-static side of the energy.

"We know that in physics, a circuit fed by damped or weakened high frequency currents creates many harmonics. Consequently, I conceived an oscillator of multiple wave lengths with a broad scale in which every organ, every gland, every tissue, every nerve,

Lakhovsky MWO/Radio Cellular Oscillator submitted by Patrick Flanagan

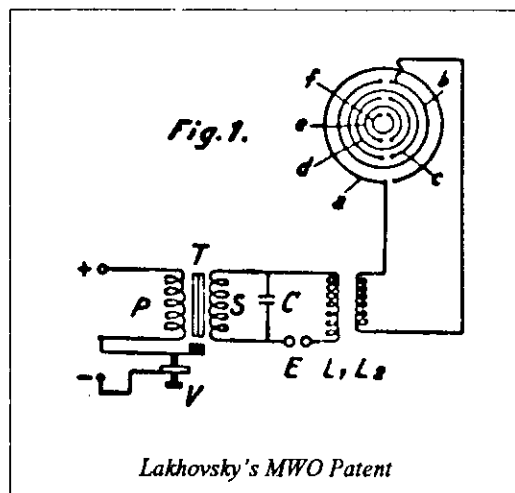


could find its natural frequency." It is at this stage that he introduces the now famous antenna of concentric rings. "To obtain this result I set up a transmitter composed of a series of circular concentric oscillating circuits linked by a silk cord but not contiguous. These circuits are stimulated by damped high frequency currents from a spark gap. Thus each circuit of the transmitter vibrates not only on its natural frequency, but also on numerous harmonics." "Thus, I built an oscillator with all the basic wave lengths from 1/10th of a meter to 400 meters. But each circuit also emits many harmonics, which with their basic waves, their interferences and their effluvia can reach the scale of infra-red and even that of visible light."

Notice here that Lakhovsky never mentions power outputs or high voltage in the output circuits. Also, in Fig. 1 of Lakhovsky's 1931 US patent #1,962,565, a very simple drive circuit of an interrupted inductor feeding an L-C spark-gap oscillator is shown. But notice these important details. First, the output coil L2 has fewer windings than L1 so that the voltage is stepped down to the antenna. Second, that the antenna connection is for electro-static output as it is an open circuit of differential capacitance, the two output leads connected to separate rings. In spite of his references to electrostatic outputs, Lakhovsky leaves this issue wide open. Quoting from the body of the patent, Lakhovsky states, "One or several points of this high frequency circuit is or are connected to the end of one or several of

the rings forming the radiating apparatus. The other rings not connected are excited by induction." This broad statement is typical of patent 'lingo' and clearly leaves unresolved the exact output connection.

Two last points should be mentioned here. Lakhovsky speaks of his output circuit being "stimulated by damped high frequency currents from a spark gap". The question is, what is a damped oscillation? Tesla also used



such terminology and it is from his writings that I draw my conclusion. I speculate that this could refer to the oscillations produced across a quenched spark-gap. Spark gaps tend to ionize gas particles between the two electrodes and the presence of this conductive plasma creates a tendency to sustain the arcing process. A quenched gap reduces or

eliminates this tendency thereby sharpening the transitions between the on and off phases of the spark. This intensifies the nature of the oscillations and produces extremely high harmonics. My guess is that in Fig 1, E, in the L-C oscillator section of the circuit, is a quenched spark gap. The other speculation I would like to add here is about the construction to the concentric ring antennas. For the last 30 years here in the USA, these antennas have been made of copper foil on a dielectric material, like a printed circuit board. BSRF has been a major source of these antennas. Recent experiments that I have run suggest strongly that this design adds unwanted capacitance to the output circuit and could clip off the very short wave emissions from the output. This would be even more pronounced in a system set up for electro-static output as Lakhovsky specifies in his patent. Only a sequence of copper rings, suspended in the air, like Lakhovsky shows, would be free to oscillate up into the gigacycle range, without any arching between the rings. These printed antennas do work well, however, with the RCO.

After all this, I now must say that there is nothing sacred about any of these circuit designs. I'm a strong believer in the motto "if it's not broken, don't fix it", however, there are many ways to produce the effects Lakhovsky was producing. Even Lakhovsky states in his 1931 patent, "These rings may be fed by any producing device whatever of high frequency..." This is well illustrated by the schematic published in the March-April 1992 issue of this journal submitted by Pat Flanagan. This circuit, while resembling one of the earlier Radio-Cellular Oscillators, seems capable of producing waves well below 1/10th of a meter (as Pat told me that it interferes with his satellite TV reception!) and therefore should be considered associated with Lakhovsky's later work on the MWO. The output of this unit is not electrostatic. In fact, Borderland has found no evidence at all that any of Lakhovsky's units actually operated in the electrostatic mode, regardless of his 1931 patent claims.

Here then is the difference between the RCO and the later MWO. The target of frequencies for the RCO was between 2 and 10 meters. With this, Lakhovsky was able to cure cancer and many other conditions. It seems to stimulate the organs and glands and promote de-toxification. The researcher whose RCO schematic follows, says that 43 megacycles (approx. 7 meters) is the primary target for a device like this and that its primary action is to cleanse the body and rebuild the organs. He has seen dramatic cleansing of the liver and bowels, reduction of

tumors, natural hair color returning in the elderly, and many more benefits including increased vitality. No doubt, Lakhovsky saw these types of benefits too. But he was not satisfied with success. He went on to make the MWO. The target of frequencies for the MWO was between 1/10th of a meter and 400 meters. He was not satisfied by stimulating the organs, he wanted to stimulate each and every cell individually also. For this he needed shorter wave lengths. He wanted to include a range of frequencies so that even the strands of DNA could find their own natural resonance and be directly stimulated by it.

The MWO, as conceived by Georges Lakhovsky, was not an intrusive influence, but one that promoted the natural healing processes of the body. "In all pathogenic cases this treatment gives very good results. As it does not attack the microbes directly, it does not destroy live tissue, but reinforces the vitality of the organism by accelerating cellular oscillation. It is therefore the reinforced organism that successfully resists the microbes and all pathogenic causes." Here then is the clear difference between what Royal R. Rife was doing and what Lakhovsky was doing. Rife discovered specific "mortal oscillatory rates" that were capable of killing microbes directly while Lakhovsky let a strengthened and normally functioning immune system do that work. Rife was working on the magic bullet while Lakhovsky was working on a shotgun panacea. Both apparently were successful!

On this page is the schematic from the Borderland Associate in Texas. He gave me permission to use his name, but did not want to be associated with the claims for his unit. I decided to use his claims, above, so his name is withheld here. Although he calls his unit an MWO, it is more correctly an RCO, based on a twin triode oscillator with target frequencies between 2 and 10 meters. Unlike any Lakhovsky built, this unit is a simple multi-vibrator based on the 6CG7, twin triode nine pin vacuum tube. It works. It can be built for about \$40 from this schematic. Make sure you get a good tube where both triodes operate equally well. The

coil connected to the tube in the drawing is 9 turns of #16 wire and the output coil connected to the treatment loop is 4 turns of #16 wire. Both are wound on a 3/8 inch diameter. You can also tap the output loop directly off of turns 3 and 7 of the 9 turn coil, but then your output loop is directly connected to the wall current and could really shock you if the insulation failed. The sample unit submitted to Borderland has the output loop connected

how many people want them.

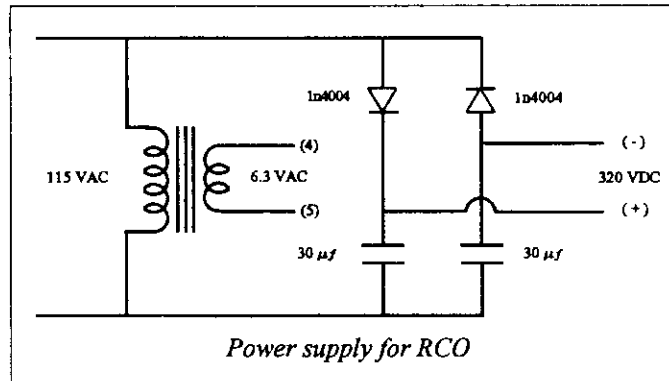
Well, back at the ranch, things look pretty clear, but what a trail ride it's been. Just a few last words before I hang up my hat and dust off my boots. Lakhovsky was a student of nature. He saw that cellular oscillations could be influenced by electromagnetic waves from cosmic, atmospheric or telluric (earth) origins. His interest in machines was only to compensate for disruptive influences the body may have encountered. As with other natural healing modalities, Lakhovsky knew that his MWO could cure all diseases, but not all patients. Sometimes, a disease condition had progressed too far and the body had lost its ability to regenerate. In such cases, the MWO could not forestall the inevitable. Likewise, sometimes a simple copper loop around a diseased plant was enough to focus health giving rays of cosmic and telluric origins and cure cancer in the plant with no "machine" at all. Seeing that

Lakhovsky's focus was on the earth energies, it seems reasonable to assume that the effective use of such copper rings may be *location dependent*, as a copper ring around a plant in a geopathic zone may very well accelerate its death. The quality of the energy coming to us from the environment today is far more disturbed and far less capable of sustaining vibrant life than in Lakhovsky's day.

More and more locations are becoming life negative, or at least less life positive. This just makes it harder for all of us to stay healthy. The main message in the work of Georges Lakhovsky is not that we can now cure cancer with a new machine. Although this is good news, we should not lose sight of his other discoveries. I think Lakhovsky's primary message is that our health is directly connected to the quality of energy coming to us from the earth, and that it is essential to good health that we develop our sensitivity to these subtle forces so we can live in harmony

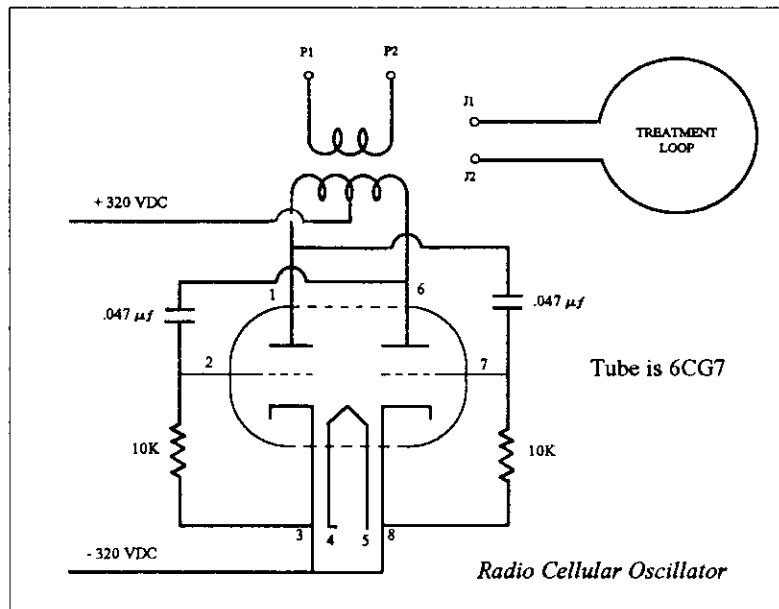
with its health giving rays. He developed the MWO to help people compensate for living in less than ideal environments. In the future, we may need these compensations more than ever. Adios.

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directly. The treatment loop is 8 inches in diameter connected to 6 feet of #18 zip cord. The loop is made of some well insulated, stiff wire.

As we have in the past, a limited number of units based on this design may be made available for further research, either as a fully



assembled unit, or as a kit. The retail price for the unit will be \$325 for non-members and \$275 for members. The kit will be \$175. As these devices have to be built in groups to keep the costs down, it is best to get your order in as soon as possible, so we can get an idea of