

# WAVERIDER™

Science's answer to radiation.

EMFrequency  
«Solutions»

*Enquiries: [info@emfrequency.com](mailto:info@emfrequency.com)*

## About The Inventor



Igor Smirnov

*Master of Science in Mechanical & Bioengineering, Faculty of Nuclear Reactors,  
St. Petersburg Naval Academy, Russia.*

*PhD in Clinical Psychology, St Petersburg State University, Russia.*

The **WaveRider** technology is the brainchild of Dr. Igor Smirnov. An esteemed scientist and inventor, Dr. Smirnov is a graduate of the prestigious St. Petersburg Naval Academy in Russia, where he studied nuclear physics and biophysics.

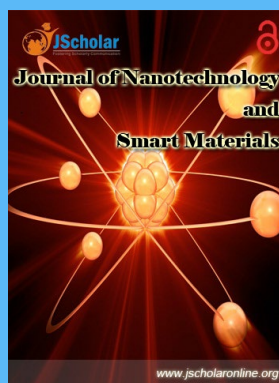
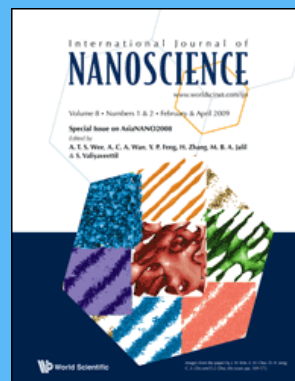
Dr. Smirnov's scientific education was both rigorous and comprehensive. His experience gave him a unique way of problem-solving. After extensive research on the negative effects of electromagnetic radiation, he realized that the solution required a blended approach. He was able to integrate his insights as a nuclear engineer and a clinical psychologist with elements of physics and biology to visualize a sustainable solution.

In addition to his investigation, Dr. Smirnov, leveraged the research of international scientists, including a team funded by the the US Army. After many years of development, he perfected a solution for protection against the harmful effects of electromagnetic fields and radiation.

Dr. Smirnov used the principles of **Noise Field Technology**, and other proprietary elements for his invention of the **Molecular Resonance Effect Technology (MRET)**. Dr. Smirnov was awarded a US Patent 8,044,376B2, allowing him to claim that his invention is a method and device for protection against electromagnetic Radiation. Dr. Igor Smrinov has three other US patents pertaining to MERT technology.

## Research and Publications

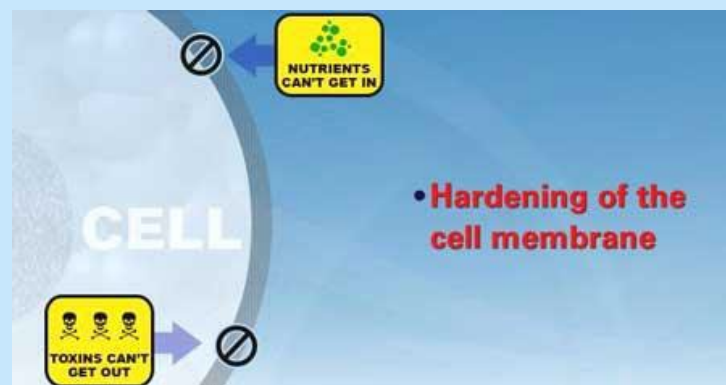
Dr. Smirnov's research work has been published in The International Journal of Nanoscience, The European Journal of Scientific Research, The International Journal of Biophysics, Journal of Microwave Power and Electromagnetic Energy, Electric Spacecraft Journal, Journal of Research in Biology, Electronic Journal of Biotechnology, Explore Magazine, among others.



## Our Body's Response to EMFs

Over thousands of years, the human body has adapted to naturally occurring electromagnetic fields. However, man-made electromagnetic fields have a different effect on human biology. Wireless radio frequencies were invented just over a hundred years ago. They differ from natural frequencies because they are generated by electronic parts and are consistent and precise. Natural occurring frequencies, however, produce noisy or inconsistent waves. When man-made EMF frequencies interact with the body, the cells sense them as a threat. In response, the outer membrane of the cells harden to prevent damage.

**Here's what happens when a living cell is exposed to radiation from man-made electromagnetic fields:**



- A sensor in the membrane of our biological cell is triggered by the invading radio wave.
- Unable to recognize the incoming frequencies, a series of protective biochemical reactions are initiated inside the cell.
- Among these protective responses, are the release of stress proteins that serve to effectively "harden" the cell membrane and disrupt the natural process of transporting of water and nutrients to our cells.
- The "membrane hardening" effect then causes an intracellular build-up of waste products and toxins, including highly reactive free radicals.
- These free radicals have been shown in studies to result in both cellular dysfunction and interference with normal DNA repair processes. Several experiments have shown these effects were eliminated when electromagnetic radiation exposure is removed.

- In addition, messages are sent to the cell nucleus, that cause gene expression changes. These gene expression changes trigger a cascade of events such as:
  - changes in heart rate and variability
  - enzyme activity changes
  - proto-oncogenes are turned on
  - stress genes are turned on and stress proteins are produced.
- The change in heart rate and variability causes an induction of heart stress condition. When this is prolonged, it reduces the chance of surviving an infarction.
- Changes in enzymic activities disrupts normal cell metabolism processes. This results in increased rate of cell proliferation which can lead to fetal abnormalities and cancer.
- Changes in cell metabolism also interferes with cell secretion, leading to changes in production of brain substances. As a result, brain functions are impaired. This can cause stress symptoms, hormonal disturbances, short-term memory loss, learning impairment, headaches and fatigue.
- Another effect of changes in cell secretion is a reduction of melatonin being produced by the brain's pineal gland. This triggers a series of disorders including mood disorders, behavioral disturbances, sleep disorders, disturbed circadian rhythm, and a feeling of permanent jet lag.
- The reduction in melatonin also causes our immune system to be impaired and downregulated. This means our body's resistance to sickness and disease is lowered. It can also lead to blood disorders and asthma.
- Another consequence of reduced melatonin production is that it can lead to an increase in DNA breaks, contributing to a disturbance of the body's repair functions and chromosomal damage. These may lead to fetal abnormalities, degenerative diseases like Alzheimer's, Parkinson's and also cancer.

## The Noise-Field Technology

Since the onset of World War I, the US military had been leading the way in the research and development of the military application of radio frequencies, microwave technology, and nuclear reactors. Russia, Germany, China, Japan and Britain were among the other countries researching this technology.

Over the years, US military scientists began to recognize the declining health among the military personnel involved in radio frequency, microwave and other wireless technologies. To safeguard the well-being and health of their personnel, the US Army funded research to verify if such technologies lead to negative health effects, and if so, to find a way to protect against these effects.

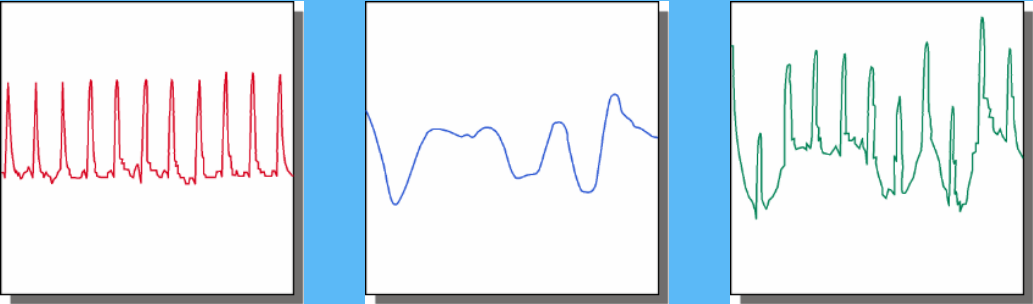
The research project was initiated in 1986 and funded in its first five years by the U.S. Army Walter Reed Army Institute Department of Microwave Engineering.

The project was a large scale effort at the Catholic University of America's (CUA) Department of Physics. Their researchers were the first to come up with the idea that there was some structural difference between electromagnetic fields that were natural and those that were man-made. Man-made electromagnetic fields radiate with steady, regular oscillations or pulses with constant frequencies. However, natural electromagnetic fields are highly irregular, with random and mixed frequencies and waveform.

The researchers discovered that man-made frequencies had a detrimental, negative effect on biological cells, whereas the natural frequencies did not. They called this natural electromagnetic field with random and mixed frequencies and waveform, "Noise Field".

The researchers then found out that when they super-imposed a noise field over the man-made frequencies, the body's cells responded normally, and did not go into an alert mode of hardening their membranes. The term, "noise field technology" was coined to describe this phenomenon.

## The Noise-Field Technology



- Information carrying signal in wireless communication.
- The constant repetitive pattern triggers biological protective responses.
- Protective responses lead to disease.

- Random ELF or “noise field”.
- Random ELF or “noise fields” do not induce protective biological responses and thus do not lead to disease.

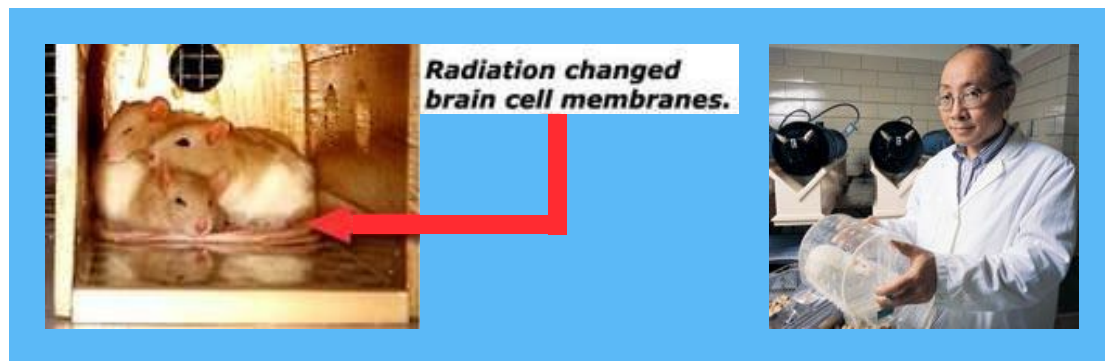
- The “Protection-effect”: Superimposing a random noise field on a bioeffecting field mitigates the induced biological effects.

After the initial finding about the Noise Field Technology by the Catholic University of America, other universities were commissioned by The Walter Reed Army Institute of Research. They include University of Washington (Seattle), Columbia University, and other universities to validate the efficacy of the Noise Field Technology.

Well known universities like Aarhus University (Denmark), University of Western Ontario (Canada) and Zhejiang University (China) have also published their successful experiments using similar Noise Field Technology on cells with damaged DNA.



## Academic Support

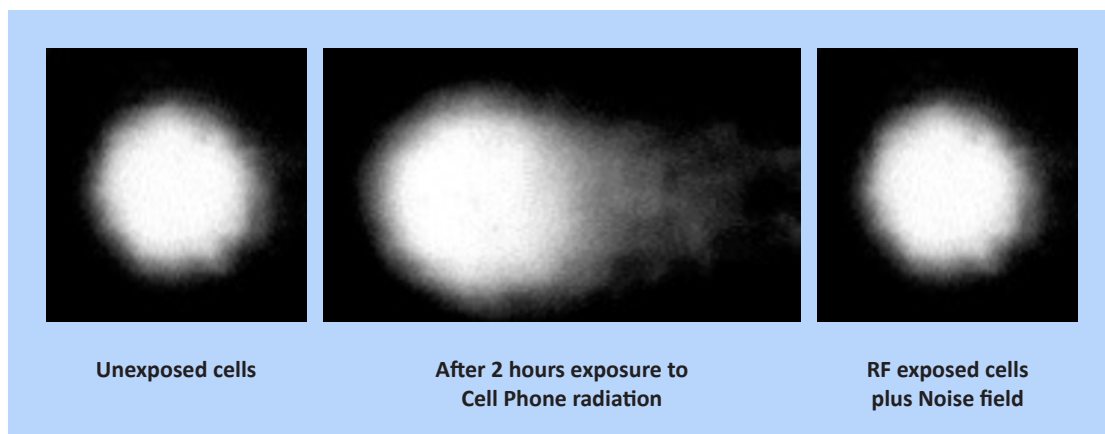


Dr Henry Lai, during his time with University of Washington (Seattle) was hailed by the scientific community for his research on using Noise Field Technology on cells damaged by EMR. His test method was the Comet Assay.

His experiment protocol was :

1. Rats were exposed to radio frequency radiation.
2. The rats' DNA repair mechanisms were disrupted resulting in formation of DNA fragments.
3. An electric field was applied to the DNA to see migration patterns and it was found that damaged DNA produced a "comet tail".
4. Damaged DNA lost their Comet Assay tail when a noise field was superimposed onto the radio frequency radiation.

DNA Patterns (*Lai et. al. University of Washington*)





## About The Invention

**WAVE RIDER™**  
Science's answer to radiation.



Since he immigrated to the US in the 1980s, Dr. Smirnov has been concerned about the increasing use of wireless technologies. As a highly trained bio-physicist, he was acquainted with the harmful effects of EMR and understood how to negate the hazard.

Living in San Diego, the bio-valley of US, Dr. Smirnov had access to the most advanced laboratories and testing facilities in the world. It was an opportune time for him to develop and test the methods of protecting our cellular structures against disruptive EMR interference.

### Certifications

Certified R&D laboratories like Nemko Global Service, Molecular Diagnostic Services, RF Exposure Lab, MET Laboratories are some examples of facilities that Dr. Smirnov used to test the efficacy of WaveRider.

Interestingly, these are some of the main labs used by cell phone manufacturers to validate their hardwares and softwares.





After more than 10 years of research and development, Dr. Smirnov was awarded USPTO Patent No. 8,044,376:

*“Devices & methods for protection against exposure to electromagnetic radiation” in 2011.*

## Quick Guide to WaveRider

The WaveRider is a stand-alone device and it includes a housing, a solenoid operably connected to a driver and a polymer. The polymer is made of polymeric material of fractal matrix composed of nano-circles that includes a polar matrix, an oxidated hydrocarbon emulsifier, a galvanic salt, a dye or stain, and a polysaccharide. The solenoid generates incident radiation which excites the polymer. The fractal matrix polymer of nano-circles begins emitting frequencies of the noise field range that counter adverse effects associated with a subject’s exposure to electromagnetic radiation.

## Specifications of the WaveRider

Net Weight	650g
Weight with Packaging	1000g
Packaging Dimensions	25.5cm (L) x 16.5cm (B) x 13.5cm (H)
Input Voltage	110 - 240V, 50 - 60Hz
Output Voltage	12V DC, 350mA
Warranty	1 year
Lifespan	17,520 hours
Range of Coverage	9m Radius

# Scientific Validation of The WaveRider



Certifying the World, One Product at a Time

MET Laboratories Inc. is a leading independent electrical testing and certification lab, USA.

***WaveRider emits “Noise Field” frequencies that leads to the amplitude modulation of microwave carrier signals.***

## **WaveRider Test at MET Lab ,USA**

### **Description of Test Sample:**

WaveRider (MRET Noise Field Generator) is a source of low frequency, low intensity electromagnetic signals of noise field characteristics. These signals are generated by MRET polymer compound that is exposed to a repeating sequence for the two discrete rate signals : 7.8 Hz for 5 seconds and 14.5 Hz for 5 seconds. These low frequency signals of noise field characteristics are superimposed on microwave carrier signal. The superposition leads to the amplitude modulation of microwave carrier signals.

### **Test Procedure:**

WaveRider/Prototype was placed in the center of an anechoic chamber, and the radiating antenna was placed 0.2 feet in front of WaveRider. The plot was taken with WaveRider OFF (Yellow Trace) and ON (Blue Trace).

### **Test Results:**

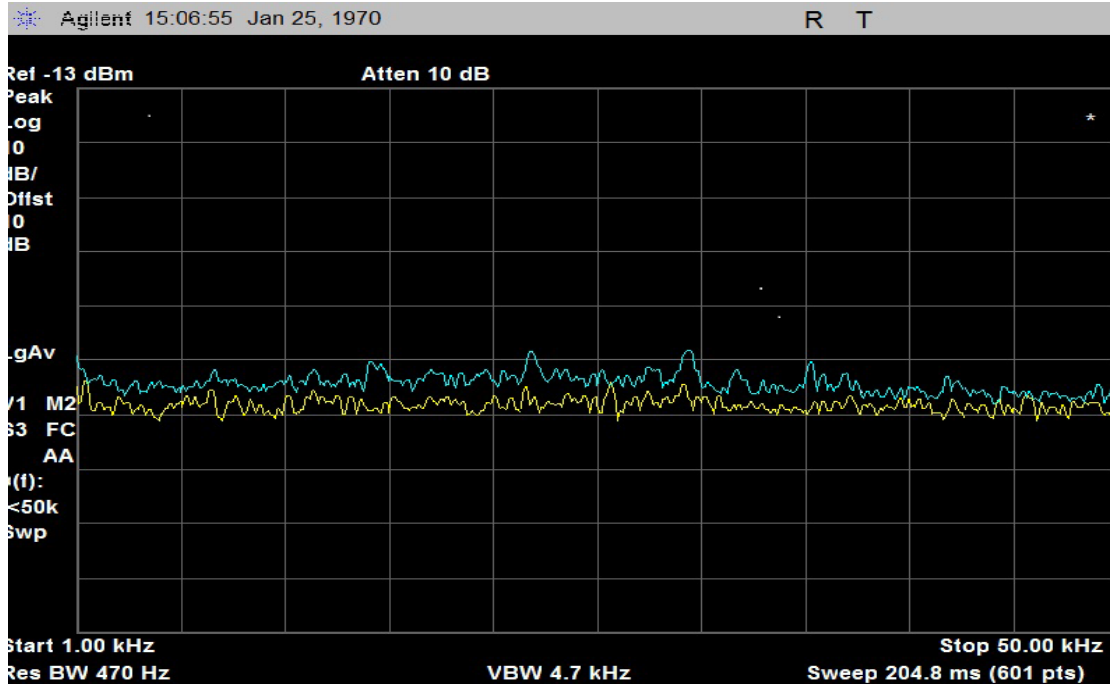
It was detected with the help of Spectrum Analyzer (Agilent E4447A) the increase of the noise field spectrum content level in the range of 4 Hz to 50 KHz at close proximity to WaveRider. The noise field spectrum content increase is most likely due to the amplitude modulation of microwave carrier signals by WaveRider.



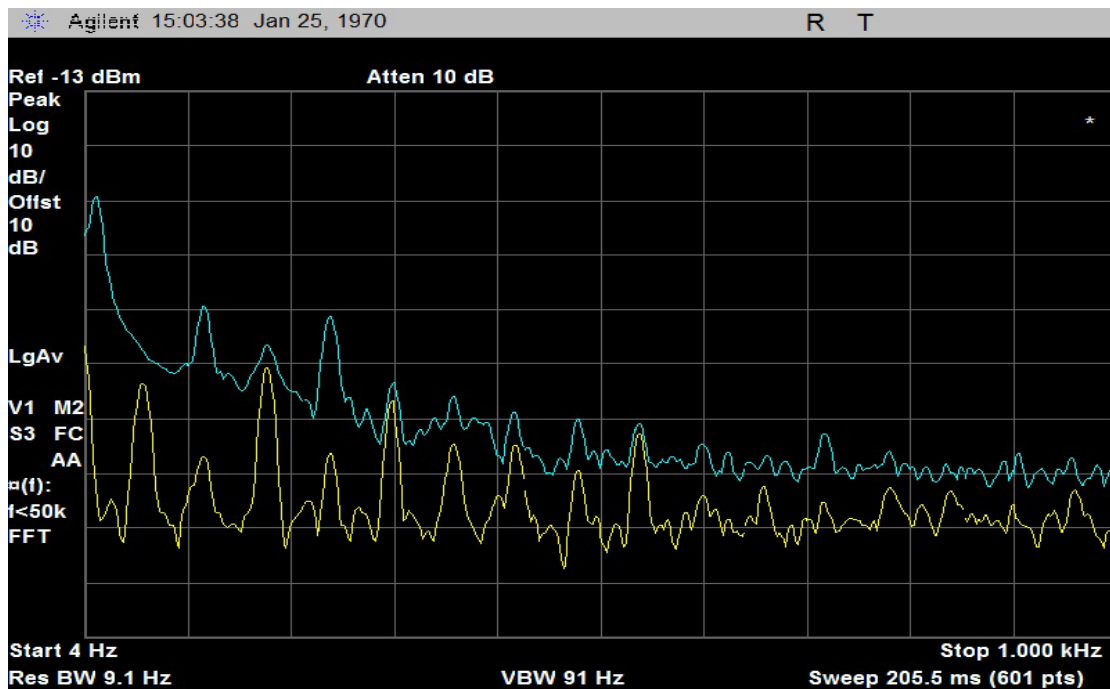
Certifying the World, One Product at a Time

MET Lab test report : #EMCS35370-GEN;

Test Engineer : Lionel Gabrillo



Antenna at the range of 1 KHz -50 KHz



Antenna at the range of 4 Hz - 1 KHz

The Nemko Group is the organization of the independent market access services based on testing, inspection and certification worldwide.

***WaveRider "Noise Field" signals can affect human brain at the distance of 30 feet.***

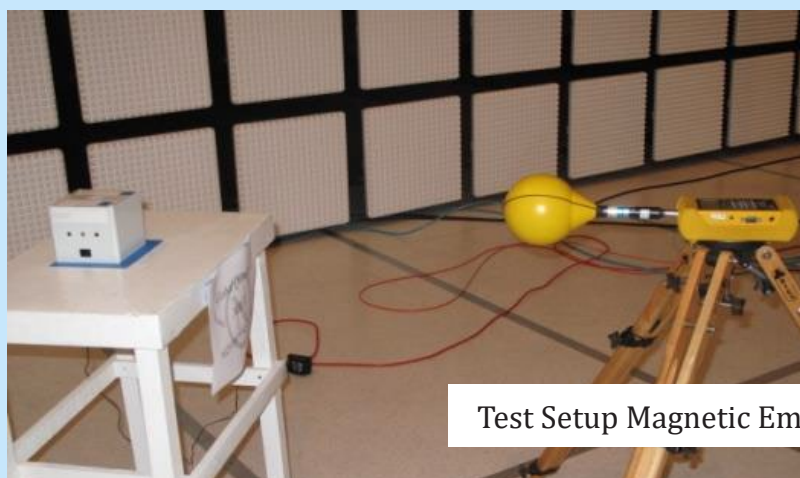
### **WaveRider Test at Nemko, USA**

#### **Test Configuration:**

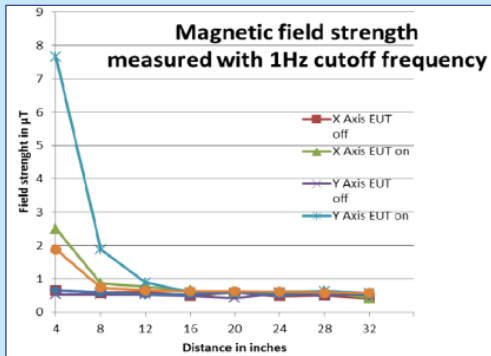
The unit was placed on a 80cm dielectric stand above a conducting ground plane within a 10m semi-anechoic chamber. An ELT-400 tester (a 3 axis orthogonally summed magnetic field measuring device) was placed adjacent to WaveRider for measurement of the emitted fields.

#### **Test Sequence:**

The magnetic emissions in all 3 orthogonal axis were measured at standard 4 inches distances starting at 4 inches from centre of cube to 32 inches from cube centre. Additionally, the magnetic field strength at 4 inches was extrapolated for field intensity at 15 feet and 30 feet from center of the cube in all 3 axes.

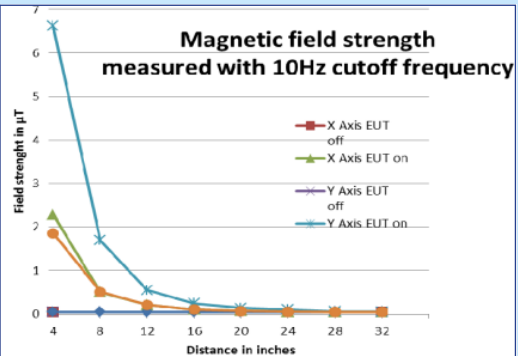


Test Setup Magnetic Emissions



**1 Hz cut off:**

- Vectoral sum = 8.2647 μT
- A/m @ 4 inches = 2.142883
- A/m @ 15 feet = 0.00106
- A/m @ 30 feet = 0.00027



**10 Hz cut off:**

- Vectoral sum = 7.2434 μT
- A/m @ 4 inches = 2.28898
- A/m @ 15 feet = 0.00113
- A/m @ 30 feet = 0.00028

Conversion formula used:  $A/m = 4\pi \times 10^{-3}$  Oersted;  
 For most purposes, gauss and oersted are essentially equivalent.

The measurement of 1 Hz cut off at 30 feet distance gives magnetic field strength of 0.00000339 oersted which is equal to magnetic flux density of  $3.39 \times 10^{-6}$  gauss;

The measurement of 10 Hz cut off at 30 feet distance gives magnetic field strength of 0.00000352 oersted which is equal to magnetic flux density of  $3.52 \times 10^{-6}$  gauss;

**Reference: magnetic field intensity of human brain activity is  $10^{-9}$  –  $10^{-8}$  gauss;** [wikipedia.org/wiki/Orders\\_of\\_magnitude\\_\(magnetic\\_field\)](http://wikipedia.org/wiki/Orders_of_magnitude_(magnetic_field))

Thus, WaveRider magnetic field intensity at 30 feet distance is almost three times order higher than magnetic field intensity of human brain. WaveRider signals at 30 feet distance can definitely affect human brain activity.

RF Exposure Lab is an independent A2LA accredited SAR testing facility. It is a popular Lab with cell phone manufacturers because of its expertise in testing SAR and it is accredited by the FCC (Federal Communication Commission).

***WaveRider significantly decreases SAR values in the range of 10% to 40% and successfully reduces the potential harmful effects on brain chemistry following EMR exposure.***

### **WaveRider Tested in RF Exposure Lab LLC**

The investigation was conducted on cellular phones: Samsung Model SCH-A670, Kyocera Wireless Model KWC 2325, and Qualcomm Model QCP 2035; TX frequency range: 835 MHz; Maximum RF output: 23 dBm conducted; Signal modulation: CDMA; Antenna type (length): Standard with each model;

The influence of WaveRider signals on RF phones in this experiment does not change location of “Hot Spot”. The “Hot Spots” remain in the same location as without the influence of the generator, and their amplitudes decrease **in 80%** of the data points. The placement of WaveRider at the distance of 7 feet from “phantom head” exposed to RF phones does not significantly affect the air measurements of RF phone signals and subsequently does not lead to any significant distortion of transmitted RF signals.

In **65%** of the data points, there was observed a significant decrease of SAR values in the range of **10% to 40%**. WaveRider reduced majority of SAR values, 9 SAR values out of 12 meaningful SAR values in this experiment were reduced in the range of **2.1% - 12.6%**.

This study indicates that the WaveRider can successfully reduce the potential harmful effects on human brain activity following EMR exposure.





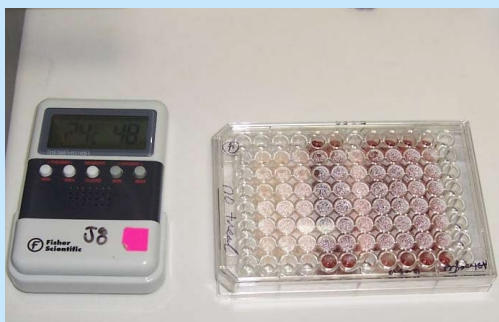
Molecular Diagnostic Service, Inc. is an independent contract testing facility operating since 1992. This independent lab provides comprehensive cellular and molecular biology, toxicology, microbiology, sterility assurance, and biocompatibility services to pharmaceutical, biotechnology, medical device, and other research institutions.

***WaveRider protects human brain cells from phone radiation at the distance of 9 meters.***

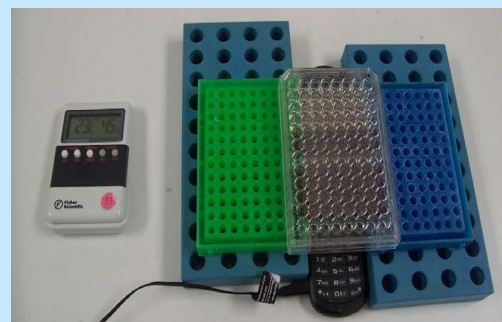
#### **WaveRider Tested in Molecular Diagnostic Services, Inc.**

Molecular Diagnostic Services was selected by Dr. Smirnov to conduct a series of experiments - to show the protective effect of the WaveRider on normal human brain cells (Astrocyte) as they are being exposed to mobile phone irradiation. The GLP studies are in full compliance with all GLP regulations, as deemed by the appropriate agency (FDA, EPA, OECD, EEC, JMHW, JMAFF).

The negative effect of mobile phone irradiation on Astrocytes growth was partially relieved when MRET noise field generator/WaveRider was placed at the distance of 30 feet from the treated plates. There was an average of 7.2% increase of Astrocytes metabolic activity due to the compensatory effect from WaveRider, as compared to the treated cell samples without WaveRider influence. In other words, the WaveRider protected human brain cells from phone radiation at the distance of 9 meters.



**Image of plate Astrocytes cells with no cell phone radiation**



**Image of plate Astrocytes cells treated with cell phone radiation**



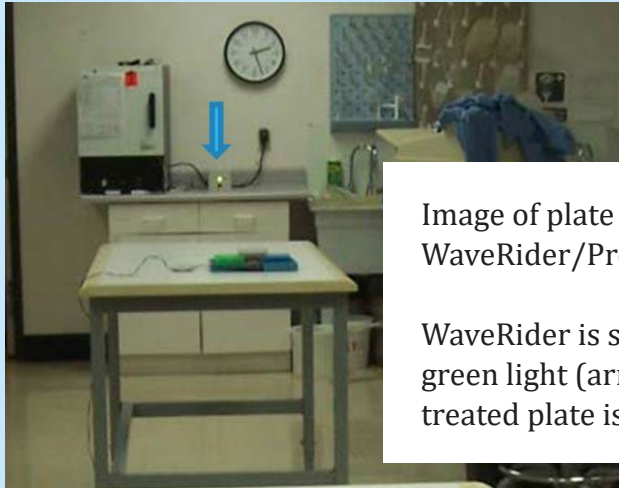
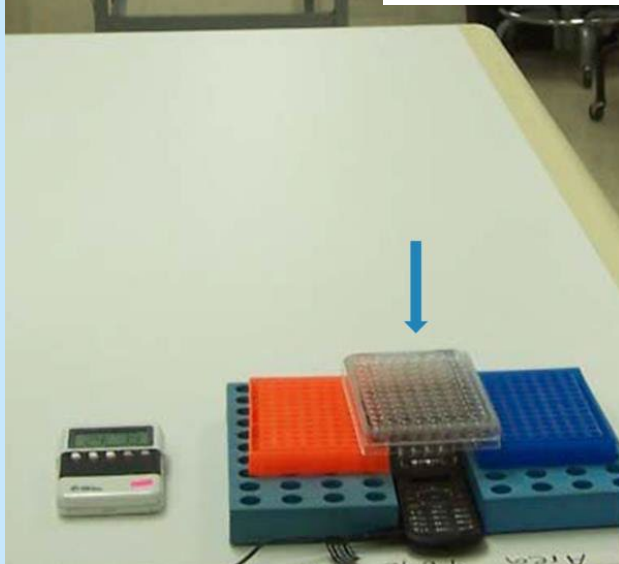


Image of plate treated with cell phone + WaveRider/Prototype.

WaveRider is shown at the back with a green light (arrow), while the cell phone treated plate is in the foreground (arrow).



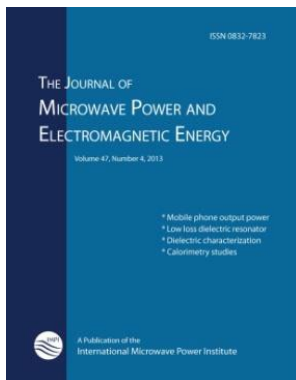
## Noise Field R&D done at Universities

<b>University And R&amp;D Team</b>	<b>Biological System Tested</b>	<b>Biological Condition Tested</b>	<b>Biological Effect Induced by EMR</b>	<b>Effectiveness Of Noise Field Technology</b>
<b>Catholic University of America</b> (Krause & Co.)	Mouse Cells	Activity of Ornithine Decarboxylase (ODC): Enzyme related to growth & Cancer	EMF cause a two-fold increase in enzyme activity relative to natural level – a condition related to cancer	Natural condition restored: Enzyme activity brought back to normal
<b>Catholic University of America</b> (Krause & Co.)	Human lymphoma cells	Activity of ODC	Significant increase	Natural condition restored
<b>Catholic University of America</b> (Doynoy & Co.)	Chicken embryos	Ratio of truncal abnormalities in embryo	EMF cause more than a doubling in abnormality ratio	Abnormality ratio brought back to natural level
<b>Catholic University of America</b> (Farrell & Co.)	Chicken embryos	Activity of ODC	Significant distortion from natural level	Natural condition restored
<b>University of Western Ontario</b> (Martin & Co.)	Chicken embryos	Activity of Nucleotidase – Enzyme related to DNA production	EMF suppress enzyme activity compared to natural level	Natural condition restored: Enzyme activity brought back to normal
<b>University of Western Ontario</b> (Martin & Co.)	Hatched chickens	Activity of Nucleotidase (cerebellum)	Enzyme activity suppressed compared to normal	Natural condition restored: Activity normalized
<b>Columbia University, New York</b> (Lin & Co.)	Human leukemia cells	Transcription of c-myc proto-oncogene (cancer related gene)	Over-expression of c- myc proto-oncogene compared to normal level – increased Cancer Risk	Natural condition restored: Proto-oncogene expression brought back to normal level
<b>Columbia University, New York</b> (Goodman & Co.)	Human breast cancer cells	HSP90 stress protein	EMF cause the on-set of stress protein production	Cells released from stress condition

## Noise Field R&D done at Universities

<b>University And R&amp;D Team</b>	<b>Biological System Tested</b>	<b>Biological Condition Tested</b>	<b>Biological Effect Induced by EMR</b>	<b>Effectiveness Of Noise Field Technology</b>
<b>Columbia University, New York</b> (Opler & Co.)	PC-12 cells	Dopamine. Hormone related to Parkinson's Disease.	EMF cause a decrease in the level of dopamine compared to normal condition	Natural condition restored
<b>Catholic University of America</b> (Litovitz & Co.)	L929 Murine (mouse) cells	ODC activity	Cellular phone EMF signals : Increase activity from normal level	Natural condition restored: Enzyme activity normalized
<b>Aalborg and Aarhus Universities, Denmark</b> (Raskmark and Kwee)	Human epithelial amnion cells	Cell proliferation rate	EMF increase cell proliferation rate by 20% compared to natural level	Condition normalized: Cell proliferation rate brought back to natural level
<b>Catholic University of America</b> (DiCarlo et Al)	Chicken embryos	Activation of HSP70 Heat shock protein and Cytoprotection level (Potential cancer promoter)	Long term exposure to EMF causes significant decline in HSP70 & Csytoprotection level	Normal condition restored & brought back to normal
<b>University of Washington</b> (Henry Lai & P. Singh)	Rat Brain Cells	Level of DNA-single and double strand breaks (Potential cancer promoter)	Significant Increase in the level of DNA single and double strand breaks	Normal condition restored & brought back to normal
<b>University of Washington</b> (Henry Lai & P. Singh)	Rats	Spatial learning	Significant deficit in learning	Normal condition restored & brought back to normal
<b>Zhejiang University, China</b> (Zeng, Chiang et Al)	Mouse Fibroblast Cells	Cap-Junction intercellular communicator GJIC (Potential cancer promoter)	Significant Inhibition of GJIC	Normal condition restored & brought back to normal

**Peer-reviewed Articles Pertaining to The WaveRider Technology**  
Published in International Scientific Journals



Journal of Microwave Power and  
Electromagnetic Energy,  
Vol 42, No 1, 2008

***“The Effect of MRET-Nylon Polymer  
Compound on SAR Values of RF  
Phones”***

European Journal of Science and  
Engineering, 1(1):1-10, 2013

***“The Effect of MRET Noise Field  
Generator (WaveRider) on  
Metabolic Activity of Astrocyte Cells  
Exposed To RF Phones Radiation”***



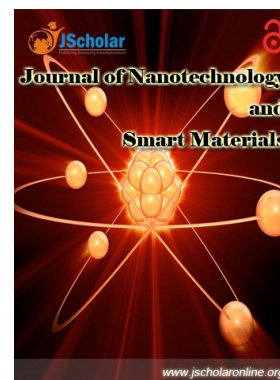
European Journal of Scientific  
Research,  
(Vol 37 No2 (2009) pp 219-225)

***“The Exposure of Normal Human  
Astrocytes Cells to Mobile Phone  
Radiation with and without MRET-  
Nylon Protection (WaveRider).”***



ARNP Journal of Science and  
Technology, vol 2, No. 9, pp 878-885,  
2012

***“The Effect of MRET Noise  
Field Generator (WaveRider)  
On SAR Values of RF Phones”***



## Questions & Answers

### 1. *What is Electromagnetic Frequency/Radiation (EMF)?*

EMR from any point of origin; power lines, cell phones, laptops, etc, are waves of energy transmitted at certain frequencies and wavelengths between two objects. This oscillating electric and magnetic fields travel at the speed of light through most material mediums (including our body) and vacuums.

### 2. *What is the WaveRider?*

The WaveRider is a stand-alone device that protects us from the harmful effects of electromagnetic radiation. The scientist who invented it, Dr. Igor Smirnov, was awarded a US patents for this technology. USPTO No- 8,044,376; Devices & methods for protection against electromagnetic radiation.

### 3. *What are some of the harmful effects of electromagnetic radiation?*

- Difficulties in sleeping
- Headache
- Concentration
- Forgetful memory
- Depression
- Fatigue
- Dizziness
- Palpitations of the heart
- Visual disorders
- Cardiovascular problems
- Buzzing in the head
- Altered reflexes
- Neurodegenerative Disorders –Alzheimer, Parkinson’s Disease
- Immune System Degradation
- Tinnitus and Ear Damage
- Irreversible infertility
- Effect on Skin
- DNA Damage
- Increase in Cancer risk

Source: <https://www.scribd.com/document/26868118/Radio-Wave-Packet-Firstenberg-2001>

#### **4. *Who invented the WaveRider?***

The WaveRider is the brainchild of Dr Igor Smirnov, pioneer in biophysics. He graduated with a Master of Science in Mechanical & Bioengineering, Faculty of Nuclear Reactors, St. Petersburg Naval Academy, Russia. He also obtained a Ph.D in Clinical Psychology at the St Petersburg State University, Russia.

Armed with the understanding of physics, biology and chemistry, Dr Smirnov had knowledge of electromagnetic radiation in both ionizing and non- ionizing radiation. His early years after his first degree, he was with the Russian Navy. After a few years, he continued his education at the prestigious St Petersburg State University. His thesis for his doctorate in clinical psychology involves the study of the very low and subtle electromagnetic radiation in the area of and cellular structure and cellular communication (signal transduction).

He immigrated to the US in the early eighties and continued his research. In 2000, Dr Smirnov was awarded a US patent US 6,369,399 in April 9th, 2002 which allows Dr Smirnov to claim "Electromagnetic Shield Method & Device". He continued his research into developing and in Oct 2011 he was awarded with another US Patent 8,044,376 which claims "Device & Method For Protection Against Exposure Electromagnetic Radiation".

WaveRider incorporates the two patents which offers to negate the negative effect of EMR without interfering or blocking

#### **5. *How long will the WaveRider last?***

The WaveRider has a life span of 17,520 hours.

This means that if it is turned on for 10 hours a day, it will last more than four and a half years. A red light will begin to blink when 200 hours is left of the WaveRider's lifespan.

#### **6. *What is the range of the WaveRider protection?***

The WaveRider's protective coverage extends to a radius of 9 meters, or roughly 30 feet. This means that anyone using the WiFi or cell phone or other electrical appliance within 9 meters (30 feet) of the WaveRider will enjoy the benefits of its Noise Field frequencies.

**7. *Can the WaveRider noise field go through the walls?***

The WaveRider, as its name implies, “rides” on the electromagnetic waves in the home or office. Just as these electromagnetic waves penetrate the walls, so too, the beneficial noise field of the WaveRider can go through walls.

So you can place the WaveRider in your living room, and use your cell phone or WiFi in your study or bedroom and still enjoy the protection of the WaveRider. This is provided the distance between the WaveRider and you is within 9 metres (30 feet).

**8. *Will the frequencies from the WaveRider affect the signals of our cell phones or WiFi?***

The WaveRider is unique in that its frequencies ride on the signals of our cell phones and WiFi, yet they **do not** in any way distort these cell phone and WiFi signals.

In other words, the clarity of communication when using the cell phone and WiFi remains the same. The WaveRider’s frequencies do not interfere with the cell phone or WiFi signals.

**9. *Does the WaveRider help to reduce the brain’s absorption of electromagnetic radiation from cell phones?***

Yes, it does.

Radiation from cell phones and other wireless devices is often measured in terms of SAR values. SAR stands for Specific Absorption Rate. It is the rate at which the body absorbs the radiofrequency energy from the cell phone or wireless device.

Tests on the WaveRider indicated that it actually does reduce the SAR values in 65% of the data points of the phantom head used in the tests. The magnitude of this decrease in SAR values range from 10 to 40 %.

In other words, the WaveRider can almost halve the brain’s absorption of radiofrequency energy into the brain.

**10. *How do I know that the WaveRider is working?***

When the WaveRider is working, you will see the two small LED lights lighted up. One is a green LED that remains steadily lit up. The other LED light flashes alternately from green to yellow.

## **11. *What can I expect to experience or feel when I first use the WaveRider?***

The beneficial effects of the WaveRider differ from person to person, since each person has a different set of health and physical characteristics and needs.

In general, most people report that upon using the WaveRider, they are able to sleep better, more deeply, and longer. Many report that they wake up feeling more refreshed. A common feedback is that they feel more mentally alert, less fatigued and clearer in their thinking.

All these, despite not reducing their workload or time at the computer or cell phone calls. According to Dr. Igor Smirnov, the beneficial and healthful frequencies in the WaveRider will lead to a gradual general improvement in our health over a period of time. There is likely to be an increase in energy levels and a boost to the immune system over time.

Dr. Smirnov has put into the WaveRider a package of frequencies that causes a positive resonance for the brain. This is likely to reduce lethargy, increase motivation to solve problems and enable the brain to function more effectively.

The WaveRider also has frequencies targeted at improving the immune system. When our immune system improves, we can expect that some diseases and illnesses will over time diminish. One user of the WaveRider who had prematurely menopaused, reported that her menstruation started again after she started using the WaveRider