

Anatomy & Inspiration for Design of Today's VitaSet



I wish I could honestly say that the PulsedTech VSG was born of entirely altruistic values BUT IT WASN'T!

Even though many of the various practitioners and clients have shared their deep concerns, needs and desires about electro-sensitivities and the related problems with me over the years, I had never really paid that much attention even though I had looked into and personally worked in specific areas of the “potentially offending” technologies. Literally growing up and living around, being constantly exposed to all sorts of electronics, transmitters, high-power lines and such, I never really noticed or considered the effects these electromagnetic fields (EMF) exposures might have or might have had on myself or others. Throughout most of my technical and professional life, these things just never seemed to be a serious personal issue, and in my mind, the situation was an occupational hazard at worst.

*Epecially over the last few years, I have been repeatedly informed by many practitioners who began seeing an alarming number of what seemed to be electromagnetically sensitive clients, and that the situation appeared to be exploding exponentially as time has gone on. I was regularly asked by those who we have close relationships if I knew much about the matter or if I was aware of anything that could be done. Working on so many other projects and realizing the world and our environment is not really going to “electromagnetically change” for the better, it never really seemed like an immediate high priority item ... **at least NOT AT THE TIME!***

ATTITUDE QUICKLY CHANGED WHEN THE SMART METERS WERE INSTALLED!!!

Within minutes of my “SmartMeter being installed, I abruptly realized ***I too had just become a “victim”!*** Very early one Saturday morning as I was lying in bed, I heard a noise at the side of the house, the power went out, and within seconds it came back on again. Jumping to my feet I went to see what was going on. The contracted installer had just done a “hit and run” SmartMeter installation.

When confronted, the electric company representative falsely claimed they had come to the door and rang the bell to notify me. Neither the dog nor I heard ANYTHING of the sort and the doorbell is just outside my bedroom door. I was to learn and observe this was their normal *modus operandi*. My other neighbors later conveyed their similar experience as well.

Back inside my home, I could physically feel a difference within minutes; there was a tightness in my chest and a stress which just didn't seem to go away. Over the coming weeks and months, rather than getting use to the new stress, obviously being caused by EMF or some other emission from the new SmartMeter installation, I began developing frequent headaches, weight gain, aches, pains, sleeplessness, exceptional irritability, and noticeable “foggy thinking”. I questioned, “How could this be?”



GEE ... WHERE HAD I HEARD ALL THAT BEFORE?

I had to immediately begin my “re-education” and review of the topic to try to understand what had changed so quickly in MY environment.

I was fully aware we were being constantly exposed to various forms of EMF: Wi-Fi, Cellular, Ham Radio, and well as countless electronics and experiments we have ongoing in our offices, workshops and labs. I was quite fortunate to have been able to review one of the early screenings of “Take Back Your Power” while in Toronto as this helped identify the difference between previous exposures and what was happening NOW! Without having seen that documentary, I am not sure I would have properly recognized or correlated what was occurring in my environment and physiology, possibly for years, maybe never!

While my lifelong tolerance to the relatively common EMF exposures of civilized living had not seemed to affect me too much, the personal impact I was now experiencing was obviously far more than what my body could tolerate. I could now truly sympathize and empathize with those I’ve been told about over the recent years. As a matter of my own survival it became mandatory that I immediately find the answers AND solutions to those very inquiries that previously never seemed that important to me.

In some ways, I could already feel the “clock was ticking” as I was recognizing, I too, was quickly degrading in health along with the mental acuity needed for my normal daily research.

“Having the puzzle pieces there in front of me doesn’t mean I can immediately put them together!”

Fortunately I had done a pretty healthy degree of research over the last 30+ years in certain related areas which made assimilation, organization and incorporation of new data a bit easier and expedient.

In many ways I feel quite fortunate to have been able to personally detect, experience and have the background to address this issue. By myself being undeniably affected, I was able to personally better understand what needed to be done, how to precisely instruct my engineering team on how this might be addressed, and express the urgency to do so. My team and assistants were invaluable in helping wade through the prolific waist-high “BS” we were to find when investigating the possible solutions.

THE GOOD



Probably the best single source of information on the EMF problems was unveiled when I attended a screening in Toronto of the (then) upcoming film, “Take Back Your Power”. The movie documented in a no-nonsense manner the unseen tragedy that is being inflicted upon us. The video is excellent, provides a wealth of information and comes highly recommended. The website is <https://takebackyourpower.net>. It is worth having a copy just to share with others to help educate about a problem many people fail to recognize even exists.

Although it does not really offer any permanent solutions to today’s EMF problems, this documentary does an excellent job of revealing the issue, the politics, and the covert nature about how this has been carried out so that the viewer at least has a bit of an understanding on what they need to personally address.

PulsedTech designers however have strived to create and offer a viable solution to at least help mediate the problems associated with and as a result of electro-pollution that many aren’t even aware exists.

Disclaimer: Before I begin this section, I want to make it quite clear this narrative **SHOULD** not be considered an attack on any alleged EMF “protection” device that may be shown or pictured. Discretization is absolutely not the intent, but a bit of diligent investigation shared here does help those searching for viable personal solutions separate truth from fiction and nonsense. It is important to note, I was not looking to design a solution, but rather only to find a solution to MY personal and our associates problems.

When we began our investigation into the EMF problem, we logically began reviewing what was currently available on the market. Having a technical background and relatively significant resources to test currently marketed devices, we began our quest for a viable solution. It should be noted all the primary and technical engineering staff of both Pulsed Technologies Research as well as Bioenergetics and Pulsed Technologies have backgrounds in electronics as well as one or more radio licenses in their respective countries. Each has more than a casual understanding of electromagnetic emissions, propagation, transmission, shielding, and to a good degree biological effects and dangers.

I was amazed at how little technical information was available for the marketed solutions. A commonly marketed class of “EMF protection” can best be described as pendants or charms. I never found any of the simple “charm/pendant style” solutions to measurably do anything or have any value whatsoever nor was I able to conceive or be offered any possible believable technical explanation how one “might” effectively address the EMF problems attempting to be addressed.

When we advanced to what would seem to be the most logical and technically feasible solution, that is, those promoted to provide a “protective shield” or “neutralization” of the ever-present EMF. This is when we became even more alarmed and dismayed at what we personally had located as the supposedly best of potential viable solutions.

PulsedTech Research acquired what seemed to be the most popular units out there which seems to be sold via a number of independent distributors. Although we were quite skeptical as to effectiveness, what especially aroused our curiosity were the specific claims made in the accompanying and online marketing literature:

“The [tested device name] acts as an absorption and neutralization unit for harmful electromagnetic radiation from anything electrical, including power lines, electric blankets, household appliances, computers, Wi-Fi, low-frequency broadcasting stations, TVs, and even solar flares.”¹

“The waves are reversed by 180 degrees and the changes are rebroadcast; the field changes now oppose each other and are nullified”²



From a technical standpoint, we realized that it would be technically impossible to perform the miracle(s) being claimed, but were very intrigued on how they might attempt to accomplish this. As soon as we began testing, we realized there appeared to be at least a bit of deception going on as we could measure virtually nothing in the form of a claimed EM field emitted from the devices, (allegedly 180 degrees out of phase with the ambient).

When we were unable to measure any sort of EM field in close proximity, we adjusted the measuring parameters utilizing spectral analysis with known present signals across a very wide band. In the photo shown here at right, the center band across the screens is a spectral analysis of present radio and electromagnetic signals. Each

¹ (Quote from instruction manual for tested device)

² (Quote from instruction manual for tested device)

spike on that center band is typical of a radio station being received at the antenna appx 1" from the "shield" device. If in fact the device being tested was providing any "shield" as claimed, it extended no further than an inch from the device.

There was no measurable difference in the received signal with the "shield" device powered on or off. If it was unable to mitigate an ever present signal as weak as these it surely could not have an effect on something stronger and nearer to home like a smart meter or house wiring.

Entering into the device I must say I was, at this point, not terribly surprised at what we found inside. Disappointment is probably a more appropriate description. Considering the price for the unit, I expected FAR MORE.



What was found consisted only of one IC (street value appx 52 cents retail), a power regulator (street value appx 75 cents) with the other support components typically a few cents or slightly more. The most expensive component appears to be the wall power supply or possibly the white PVC sewer end caps used to seal the unit.

Total power draw was measured at 20ma which is about what you would expect the two flashing LEDs to use leaving practically nothing left to energize the touted coil (what appears to be a simple 3/4" RF choke). We WERE able to get readings by placing our sensors inside the unit directly on the emitting component, but even then at only very weak levels at a single frequency with pathetic waveform.

What stood out was there were no real apparent mechanisms in place to accomplish the published claims made by the manufacturer. As one reviewer aptly posted and we tend to agree, ***"It's like black magic. Which is exactly what you would need to make a device that actually does what this device claims to do."***³



I still to this day do not know who the manufacturer is, but I would think they need to be concerned not so much about FDA or FCC, (because there is virtually NO measurable emission), but should have major concerns with FTC and deceptive trade practices or possible prosecutions for fraudulent misrepresentation.

Because of the proliferation of devices like what I was finding in my investigations, I realized I was most definitely not alone in my quest for a solution to my problems. Many others obviously shared my dilemma, often to a far greater degree. I was actually quite fortunate as I recognized a problem immediately rather than having it identified months to years later, (or possibly even never), like so many good people before me.

³ http://www.amazon.com/Total-EMF-Shield-Protection-Double-Coil/dp/B00LLNDXJU/ref=sr_1_3?ie=UTF8&qid=1449168191&sr=8-3&keywords=total+shield#customerReviews By Clark B. Timmins on January 2, 2015, *Snake Oil in a Double Coil*, So the device "double coil" variant, like the original "single coil" device, cancels out harmful... whatever... "radiations"... by detecting them and then re-broadcasting them. Clearly this is impossible because if the device truly totally shields 20,000 square feet from EMF then how does it simultaneously detect that EMF at the very center of the area from which that EMF has been eliminated? See what I mean, there? If the logic of this device alone does not convince you it's a can of Snake Oil then I guess go ahead and buy it on the "fool and his money..." principle. And then lets talk about the rebroadcasting bit. I thought it was supposed to eliminate EMF -- it's a total shield. But then it says it does this by doubling EMF. Eliminate or double? But wait, there's more! If it totally shields EMF then how does it simultaneously broadcast EMF? It's like black magic. Which is exactly what you would need to make a device that actually does what this device claims to do.

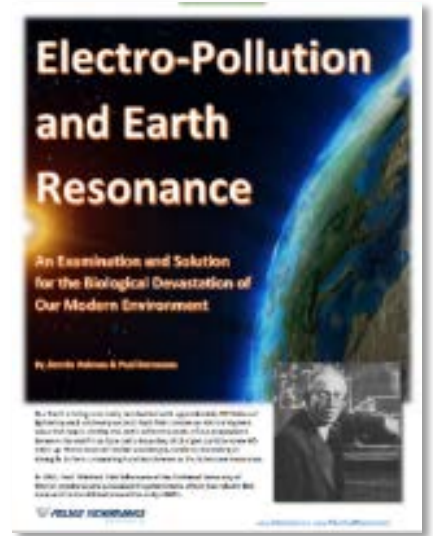
The ridiculously bad devices we encountered in our search actually became the inspiration to make “something wonderful”. I really had no available options other than to proceed from a logical and technical standpoint. The fact that I was even looking into this matter and the pathetic available solutions clearly indicated there was both a need and a market for a REAL solution.

The following year or so was spent in intensive research to better and more fully understand the electro-pollution problems. “*Electro-Pollution and Earth Resonance: An Examination and Solution for the Biological Devastation of our Modern Environment*”⁴ by Paul Dorneanu and myself, laid the foundation and history of the problems in understandable terms as well as a potential path to viable solutions rather than the “magic box”⁵ schemes offered elsewhere.

While most of us reasonably understand that as society develops, and as we have more and more access to modern electronic conveniences and services, this too has its associated “side-effects”, much of which is not visible and usually not correlated to the ailments we may be experiencing every day to varying degrees. Recognizing and understanding these relationship is imperative for the user to find, differentiate and select logical tools and solutions to achieve goals, and correct states within their environment and personal life that could benefit by improvement.

As part of our research we relied on many practitioners who were seeing, working with, and in some cases, specializing with electro-magnetically sensitive clients. From their feedback, that of their clients, and my own personal experiences by this point, we realized that our concept and solution needed to be far more complex than anything currently available. The oversimplified, single frequency approach by others and the sensitivities by those already overwhelmed by today’s toxic environment needed to be carefully considered as well.

Having a somewhat covert and classified background, I was aware of many intentionally disruptive and destructive technologies, but more so, I was also aware of certain electronic countermeasures used to positively offset the intended detrimental effects. These considerations too became significant strategic components in the design of what was now destined to become a real product.



While I am quite limited in my ability to disclose certain technologies, BBC⁶ has made an excellent documentary openly revealing part of the problem and look at one related solution that had been used many years ago. We also found other solutions developed during the cold war from Eastern Europe which provided much of the needed clues.

Combining the stated needs of the doctors, their clients, my personal needs, and the various technologies we realized our problems COULD be resolved, and a well-designed solution could do far more than the intent of

⁴ <http://www.pulsedtechresearch.com/wp-content/uploads/2015/01/Electro-Pollution-Earth-Resonance-Holman-Dorneanu-1.pdf> *Electropollution and Earth Resonance: An Examination and Solution for the Biological Devastation of Our Modern Environment*, Holman & Dorneanu, an article included within in *The Electric Human*

⁵ <http://www.pulsedtechresearch.com/wp-content/uploads/2013/12/Lure-of-the-Magic-Box-Holman-Dorneanu.pdf> *Lure of the Magic Box*, Holman & Dorneanu, an article included within in *The Electric Human*

⁶ <https://www.youtube.com/watch?v=jQ-SRTrUvdK> Video excerpt from BBC Horizon 1982, *The Mysterious Mr. Tesla*

the original device. With this, the new VitaSet Generator (VSG) was born. The free market abhors a vacuum and a desperate need in this area most definitely exists.

*"VitaSet Generator – VitaSet Solutions"*⁷, freely available for download, elaborates a bit more on what we found was needed to address the problems.

In many ways it seems ironic that such a problem being addressed with such poorly implemented follow-through and ridiculous claims would be the major inspiration for so much more.

It is true "Necessity" (and desperation) is most certainly "the Mother of Invention"!



THE DESIGN DID NOT END THERE!



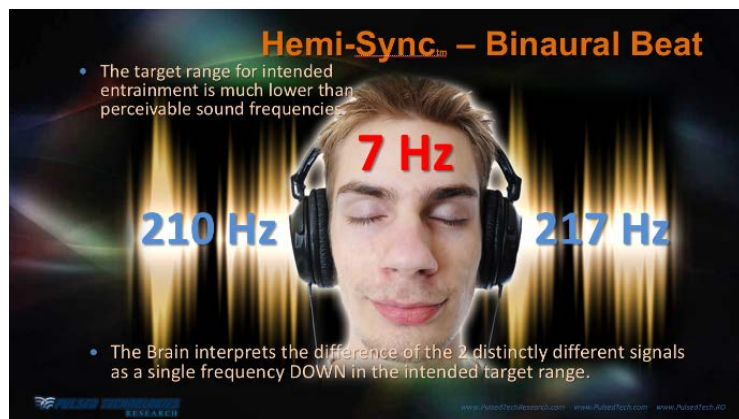
Throughout our investigation and experimentation process, a common theme arose. Almost everyone universally had complaints of headaches, stress and sleep issues. Throughout my life, I have had good health and have never had sleep issues, but ever since the installation of SmartMeters these were all things I was now also personally experiencing as well.

In the extremely low frequency portion of the Earth's electromagnetic field are a set of spectrum peaks called Schumann resonances⁸. In many ways the earth's Schumann resonances can be likened to a musical metronome, providing the body certain electrical timing signals. In today's electrically noisy environment access to those signals is like listening to a pin drop at a rock concert. Our bodies simply cannot "hear" these cues because of the constant unnatural man-made electromagnetic chaos bombarding us against our will or knowledge. The VSG is intended to help provide those natural rhythms in proximity of the user so his body can once again get back on track to the natural paces intended.

While others manufacturers seemed interested only in providing a single Schumann frequency, 7.83 Hz, (or as close as they could get), we realized the issue was more complex. Not only are there five or more primary Schumann resonances, but each of these correlated to known brainwave activity peaks. The lowest being at the threshold of consciousness, but not below!

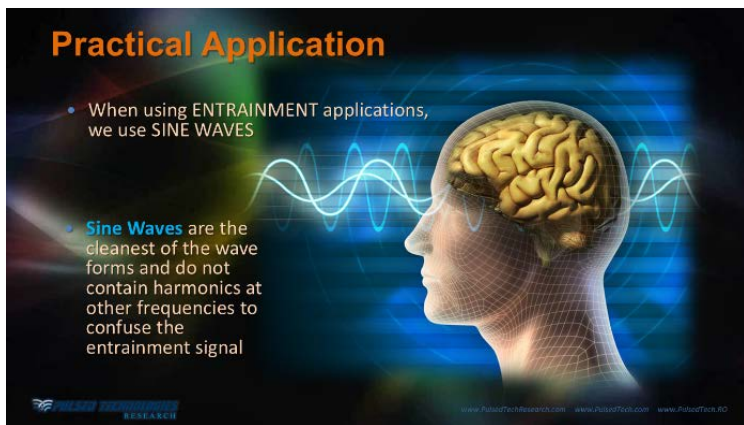
It has been understood that many of the regenerative and recuperative processes take place during sleep at brainwave frequency well below the primary Schumann frequency of 7.83 Hz. These processes occur well below the conscious states into the deep sleep states. Persons having their normal sleep cycles interrupted are rarely (if ever) reaching these recuperative states, with health, both physical and mental, almost always suffering as a result.

Researchers with Pulsed Technologies Research began studying these areas beginning in the early 1970s. Some components of the truly innovative research and technologies of Monroe Institute's *Hemi-Sync* methods of brainwave manipulation, now often referred to generically by many others as *binaural beats*, offered suggestions on how one



⁷ VitaSet Generator – VitaSet Solutions is being published simultaneously and will be freely available on the www.PulsedTechResearch.com website.

⁸ https://en.wikipedia.org/wiki/Schumann_resonances



might similarly address these ancillary nighttime issues to get to the same low brainwave states being interfered with by the disruptive effects of environmental electro-pollution.

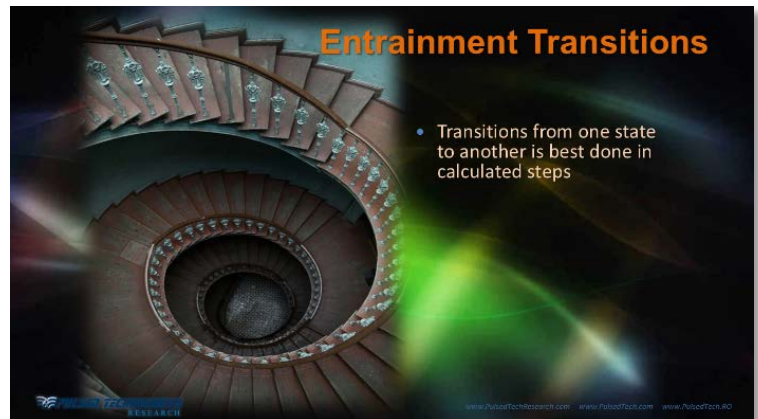
The Hemi-Hync/Binaural Beat sound methods that have been employed by folks are incapable of producing the necessarily accurate low frequencies because the actual target frequencies are relatively far below the range of normal hearing. Instead the methods relying on the brain to differentiate between the two slightly different audible signals, identify the difference, and then entrain on that created approximate “beat”. VSG technology can provide clean programmed precision frequency and timing never

before considered possible without the now superfluous and possibly distracting audio signals which need not necessarily be present

The same natural “metronome” entrainment concept of the Schumann Resonance frequencies are also utilized during automatic “nighttime mode” to guide (entrain) the brainwave states in preprogrammed steps from alpha, sequentially descending down to deep delta sleep. This does not seem to interfere with the normal periodic sub-cycles that should occur during normal sleep but seems to provide the accurate lower frequency cues to help maintain the extended times needed for quality recuperative and regenerative rest that is missing from so many folks interrupted sleep cycles.

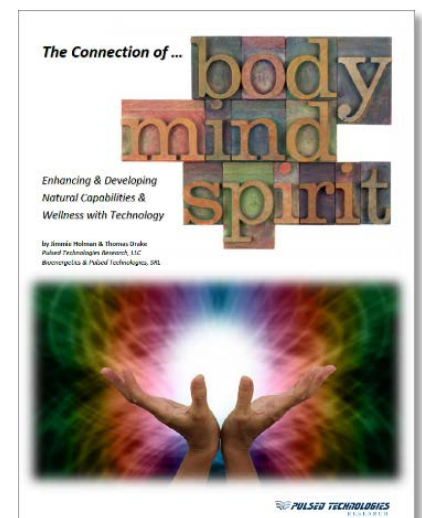
The melatonin and other pineal gland controlled hormonal activities that may have been disrupted for extended periods, even years or decades may once again over time naturally begin getting back on track to ideally providing much needed relief.

Most folks that are studying or already familiar with some of these techniques and issues mentioned previously are likely aware VSG may be the key to the wellness or personal development and improvement they are searching.



A bit clearer description of the techniques and relationships are available in the recent article by Holman and Drake. “*The Connection of BODY, MIND, SPIRIT: Enhancing & Developing Natural Capabilities & Wellness with Technology*”⁹ better describes the enlightened innovation and passionate exploration alive and well in the Pulsed Technologies groups and partner HER Technologies. The article goes

into more detail of how entrainment works in relationship with the mental brainwave states for natural access to better wellness and well-being.



⁹ <http://www.pulsedtechresearch.com/wp-content/uploads/2015/03/Body-Mind-Spirit.pdf>

EMERGENCE OF THE NEW VITASET

Manufacture of a quality, simple, single frequency, Schumann generator similar to others would have been quite easy (and very cheap) to design, and in itself would have been far better than most everything we found currently available. The incredibly weak devices like the “shield device” evaluated in our labs, like so many others, could likely provide little more than placebo effect. The single frequency approach used by others completely fails to address the existence and apparent need for the suite of natural frequencies we evolved with and obviously need in our daily lives. A more comprehensive solution as well as those in need demanded and deserved more than the simple “Band-Aid patch” which until now, unfortunately seems to be the norm.

Addressing the need and inclusion for the fuller cluster of Schumann resonances of course required much more electronic sophistication. With this effort and refinement came not only the additional frequencies, but far more precision and accuracy. The substantially better platform also now meant other related issues of interest shared by most of those needing or investigating this technology, such as brainwave entrainment, could also be included to provide an instrument unparalleled in features yet still simple enough to be used by the most technically challenged, especially those in most need.

Meeting the personal needs of users as well as my own in today’s toxic environment, required far more considerations which no others had seemed to truly address. We are very pleased with the results, capabilities and potential of Pulsed Technologies’ new VitaSet Generator.

Even though the origins of VSG began from personal needs, potential users should feel confident that the **very best “no compromise”** efforts were put into the design

.... as if it were a matter of “life and death”

.... In many ways, it actually WAS!

