

Electromagnetic Waves as an Indoor Air Pollutant

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Useful Quotes & An Equation to Better Understand the Ideas Presented in the Paper

“There are so many unseen negative influences on human health that are missed by conventional medical practitioners that many sources of human suffering remain undetected. It is recognized that sulfur dioxide and carbon monoxide are airborne pollutants which are harmful to human health. These chemicals place abnormal stresses on the body’s physiology and lead to the manifestation of illness in certain susceptible individuals. *Disease susceptibility as a consequence of exposure to environmental pollutants is partly a function of the strength of the body’s immunologic, physiologic, and energetic defense mechanisms.*

“The production of environmental illness is not strictly related to exposure to levels of harmful substances that are higher than FDA safety limits. *Conventional safety limits of exposure do not take into account the subtle vibrational effects of toxic substances.* Because of their inability to comprehend vibrational levels of toxicity, the orthodox scientific community is more lenient in defining safe levels of exposure to many harmful substances. The inadequacy of conventional scientific testing to measure subtle negative disturbances to human physiology also limits the FDA’s ability to define exactly which substances are really harmful to human beings, let alone the concentration necessary for toxic effects.”

–Richard Gerber, M.D., *Vibrational Medicine: The #1 Handbook of Subtle-Energy Therapies*, Third Edition, Page 451, Bear & Company, 2001, ISBN# 978-1-879181-58-8

“There is no starker contrast between the Big Bang and the Electric Plasma Universe (see Continuous Creation from Electric Plasma versus Big Bang Universe, SiS 60 – https://www.i-sis.org.uk/Continuous_Creation_from_Electric_Plasma.php). Big Bang cosmology developed when the Universe could only be seen dimly through light emitted in the visible electromagnetic spectrum, a narrow band less than one octave between 390 and 700 nm. Since the 1970s, space research has extended our vision enormously in an electromagnetic spectrum spanning some 30 octaves - from radio waves, microwaves, and infrared at one extreme to ultraviolet, x-rays and γ -rays at the other, all emitted by magnetized plasmas, and on timescales of split seconds to minutes, hours, and days. A cosmic extravaganza is enacted with the immediacy of happenings before our wide-open sleepless telescopic eyes. X-ray bursts change by orders of magnitude within milliseconds, some 10¹⁰ times faster than emissions in the visual range.

“Instead of a static Big Bang Universe stuffed with dead dark matter and dark energy, the Electric Plasma Universe is alive and shimmering, flashing, often bursting with unrivalled brilliance, here, there, and everywhere we look. It is buzzing with “electric-plasma currents accreting and concentrating mass and transferring energy over galactic and intergalactic distances, organizing space into cells surrounded by sheets and filaments of plasma bounded by electric double layers. The circuit paths are closed, sometimes over very large distances. Plasmas in relative motion in one part of the universe can produce prodigious amounts of electrical energy, and the energy transferred over many billions of light years to suddenly burst from a very small and localized region.” This was essentially the vision of Hannes Alfvén, father of astrophysics and the Plasma Universe. It naturally leads to the idea of a cosmic electricity grid (see Many Things New around Our Electric Sun, SiS 68 – https://www.i-sis.org.uk/Many_Things_New_Around_Our_Electric_Sun.php). Unlike ordinary electricity grids, the cosmic grid of electric plasma transmission lines not only actively constructs itself, but also creates galaxies and stars from stardust in the process.”

–Dr. Mae-Wan Ho, ‘Cosmic Web’ or Cosmic Electricity Grid: Observations on the largescale structure of the Universe over the past decades have given rise to the notion of the ‘cosmic web,’ which is nothing if not the cosmic electricity grid of the Electric Plasma Universe, 19/10/15, https://www.i-sis.org.uk/Cosmic_Web_or_Cosmic_Electricity_Grid.php

Einstein-Lorentz Transformation

$$E = \frac{mc^2}{\sqrt{\frac{1-v^2}{c^2}}}$$

As $v \rightarrow c$, then $E \rightarrow \infty$

Where E = energy, c = speed of light, m = mass, and v = velocity

Caption 1: The Einstein-Lorentz Transformation appears as Diagram 13 in *Vibrational Medicine: The #1 Handbook of Subtle-Energy Therapies*, Third Edition By Richard Gerber, M.D., Page 144, Bear & Company, 2001, ISBN# 978-1-879181-58-8. Irucka Embry created this image, based on Diagram 13 in the aforementioned book, with Inkscape [<https://inkscape.org/>] version 1.0.2

“We may therefore regard matter as being constituted by the regions of space in which the field is extremely intense... There is no place in this new kind of physics both for the field and matter, for the field is the only reality.”

–Albert Einstein; Quoted in M. Capek. *The Philosophical Impact of Contemporary Physics*. Princeton, NJ: D. Van Nostrand, 1961, p. 319. The quote was featured in Fritjof Capra. *The Tao of Physics: An Exploration of the Parallels Between Modern Physics and Eastern Mysticism*. Fourth Edition, Updated (25th Anniversary Edition). Boston: Shambhala, 2000, p. 211.

“We have to remember that the luminous matter we observe with our instruments is *only 0.5 per cent of all calculated mass*. What we see with our eyes is still less. “Reality” is a thin “film” of [electromagnetic] light, a visible matrix, our biological body or robot can interact with; such a body is a “costume” that lets us participate in the “film” itself for a while; it is not our true identity or “I.””
[my emphasis]

–Giuliana Conforto, *Organic Universe*, ISBN# 978-8886516105, Noesis, 2004 as quoted in *Infinite Love is the Only Truth: **Everything** Else is Illusion: Exposing the dreamworld we believe to be ‘real’* by David Icke, page 72, ISBN# 978-0-9538810-6-2 [<https://shop.davidicke.com>]

“Up to the Twentieth Century, reality was everything humans could touch, smell, see, and hear. Since the initial publication of the chart of the electromagnetic spectrum, humans have learned that what they can touch, smell, see, and hear is less than one-millionth of reality. Ninety-nine percent of all that is going to affect our tomorrows is being developed by humans using instruments and working in ranges of reality that are nonhumanly sensible.”

–From *R. Buckminster Fuller on Education* (University of Massachusetts Press, 1979), p. 130; **Source:** Wikiquote page on Buckminster Fuller [https://en.wikiquote.org/wiki/Buckminster_Fuller]

“[Albert] Einstein’s relativity work is a magnificent mathematical garb which fascinates, dazzles and makes people blind to the underlying errors. The theory is like a beggar clothed in purple whom ignorant people take for a king... its exponents are brilliant men but they are metaphysicists rather than scientists.”

–Nikola Tesla, *New York Times* (11 July 1935), p. 23, c.8; **Source:** Wikiquote page on Nikola Tesla [https://en.wikiquote.org/wiki/Nikola_Tesla]

“The proposed link between humans and the heavens above was through a subtle pervasive fluid, perhaps an early construct of the “ether,” which existed throughout the universe. He attributed *magnetic* qualities to this subtle substance and felt that it possessed unique qualities of healing. He also concluded that if this force was possessed or wielded by someone, then that person could arrest or heal diseases in others. Paracelsus stated that *the vital force was not enclosed inside an individual but radiated within and around him or her like a luminous sphere which could be made to act at a distance*. Considering the accuracy of his description of the energies surrounding people, one wonders whether or not Paracelsus could clairvoyantly observe the human auric field.”

–Richard Gerber, M.D., *Vibrational Medicine: The #1 Handbook of Subtle-Energy Therapies*, Third Edition, Page 287, Bear & Company, 2001, ISBN# 978-1-879181-58-8

“... it is likely that since matter is a kind of frozen light, it must therefore have particular frequency characteristics. The difference between physical matter and etheric matter is only a difference of frequency. It is an acknowledged principle within physics that energy of different frequencies can coexist within the same space without destructive interaction. This principle is demonstrated daily by the manmade electromagnetic soup in which we work and live. We are constantly bombarded by radio and TV broadcasts which pass through our houses and bodies. This electromagnetic energy is invisible to our eyes and ears because it exists at a threshold of energy beyond the energetic frequency sensitivity of our physical organs of perception. If, however, we happen to turn on the TV set, these normally invisible energies become translated into energies of visible light and audible sound which are within our perceptual range of sensitivity. When we turn on the TV set, we do not see Channel 2’s image mixed with Channel 7’s. Because the energies are of slightly different frequencies, they can exist within the same space without interfering with each other. It is only because of the interjection of our TV set as an extension of our senses that we can even tell that these energies are present.

“This principle of energies of different frequencies occupying the same space, nondestructively, has theoretical implications for matter of different frequencies. Because of their differing inherent frequencies, physical and etheric matter can coexist in the same space, just as radio and TV waves

can pass through the same space without interference. The energetic matrix of the etheric body, or holographic energy-field template, is superimposed upon the structure of the physical framework. This is why the Phantom Leaf Effect always appears in the space formerly occupied by the physical portion of the leaf. This same principle of matter of different frequencies applies to even higher frequency matter than the etheric body. Bodies of higher energetic frequencies are interconnected and in dynamic equilibrium with the physical body. ...”

–Richard Gerber, M.D., *Vibrational Medicine: The #1 Handbook of Subtle-Energy Therapies*, Third Edition, Page 120, Bear & Company, 2001, ISBN# 978-1-879181-58-8

“In physics, radiation is a process in which energetic particles or energetic waves travel through a medium or space. Two types of radiation are commonly differentiated in the way they interact with normal chemical matter: ionizing and non-ionizing radiation. The word radiation is often colloquially used in reference to ionizing radiation (i.e., radiation having sufficient energy to ionize an atom), but the term radiation may correctly also refer to non-ionizing radiation (e.g., radio waves, heat or visible light). The particles or waves radiate (i.e., travel outward in all directions) from a source. This aspect leads to a system of measurements and physical units that are applicable to all types of radiation.

“The non-ionizing portion of electromagnetic radiation consists of electromagnetic waves that (as individual quanta or particles, see photon) are not energetic enough to detach electrons from atoms or molecules, ionizing them. These include radio waves, microwaves, infrared, and (sometimes) visible light. (Ultraviolet light, X-rays and gamma-rays are regarded as ionizing.) The occurrence of ionization depends on the energy of the individual particles or waves, and not on their number. An intense flood of particles or waves will not cause ionization if these particles or waves do not carry enough energy to be ionizing, unless they raise the temperature of a body to a point high enough to ionize small fractions of atoms or molecules by the process of thermal-ionization (this requires relatively extreme radiation energies, however).

“The electromagnetic spectrum is the range of all possible electromagnetic radiation frequencies. The electromagnetic spectrum (usually just spectrum) of an object is the characteristic distribution of electromagnetic radiation emitted by, or absorbed by, that particular object.”

–Radiation: From Wikipedia, the free encyclopedia, <https://web.archive.org/web/20120425081443/https://en.wikipedia.org/wiki/Radiation> [Recovered with the Internet Archive Wayback Machine]. Accessed on 26 March 2012.

“An electromagnetic field is a physical field that is produced by electrically charged objects and which affects the behavior of charged objects in the vicinity of the field. They are produced by all devices that use electricity, power lines and wireless technology such as cell phones and wireless networks.

“Electromagnetic radiation begins with a phenomenon that occurs when electric current flows through a conductor, such as a copper wire. The motion of the electrons through the wire produces a “field” of energy that surrounds the wire and floats just off its surface. This floating zone or cloud of energy is actually made up of two different fields of energy, one electric and one magnetic.

“Electric fields are created by differences in voltage: the higher the voltage, the stronger will be the resultant field. Electric fields are present even when the device plugged in is not turned on. Magnetic fields are created when electric current flows: the greater the current, the stronger the magnetic field.

An electric field will exist even when there is no current flowing. If current does flow, the strength of the magnetic field will vary with power consumption but the electric field strength will be constant.

“The argument that biological effects of power-frequency fields must be due to the magnetic component of the field was the subject of some debate in the late 1990’s. In particular, King] argued that the electrical fields from power lines do penetrate most buildings, and that the electrical currents induced in the body by power line electrical fields may be greater than those induced by power line magnetic fields.

“In general, electromagnetic sources produce both radiant energy (radiation) and non-radiant fields. Radiation travels away from its source, and continues to exist even if the source is turned off. In contrast, some electric and magnetic fields exist near an electromagnetic source that are not projected into space, and that cease to exist when the energy source is turned off.”

–Understanding EMFs (Electric and Magnetic Fields) from the Dirty Electricity (Canada) Web site, https://web.archive.org/web/20120526052812/http://www.dirtyelectricity.ca/understanding_emfs.htm [Recovered with the Internet Archive Wayback Machine]. Accessed on 26 March 2012.

“The fact that exposure to power-frequency fields occurs at distances that are much shorter than the wavelength of 50/60-Hz radiation has important implications, because under such conditions (called “near-field”), the electric and magnetic fields can be treated as independent entities. This is in contrast to electromagnetic radiation, in which the electric and magnetic fields are linked.

“The electric and magnetic waves that combine to form an electromagnetic wave travel at right angles to each other and to the direction of motion. If the current flowing through the wire is made to oscillate at a very rapid rate, the floating electromagnetic field will break free and be launched into space. Then, at the speed of light, the energy radiates outward in a pulsating pattern, much like the waves in the pond.

“It is theorized that these waves are made up of tiny packets of radiant energy called photons. Streams of photons, each carrying energy and momentum, travel in waves like an undulating string of cars on a speeding roller coaster. At higher frequencies (above 1.7 KHz) such as those used by cell phones and wi-fi, the electromagnetic energy contained in these fields actually penetrates human tissue.”

–Understanding EMFs (Electric and Magnetic Fields) from the Dirty Electricity (Canada) Web site, https://web.archive.org/web/20120526052812/http://www.dirtyelectricity.ca/understanding_emfs.htm [Recovered with the Internet Archive Wayback Machine]. Accessed on 26 March 2012.

“Dirty Electricity and other electrical pollution come from a number of sources. Clean electric power was originally intended to power our homes and buildings at a safe frequency of 60 Hertz (Hz). Today, for a number of reasons, it’s becoming increasingly contaminated with invisible micro-surges of dangerous radio frequency radiation and other electromagnetic contaminants now referred to as “Dirty Electricity.”

“Dirty Electricity has become a growing problem in recent years due to our increased use of modern energy-efficient lighting and electronic devices such as dimmer switches, computer and electronic entertainment centers. These modern electronic conveniences, although energy-efficient, tend to induce high levels of transients (high frequency spikes) and harmonics (multiples of the fundamental 60Hz frequency) back into a building’s electrical system. These electromagnetic contaminants ride

along on a building's electrical system and can contaminate an entire building and even buildings and homes nearby.

“Another factor contributing to our contaminated electrical environment is ground current. ground current can often carry unpredicted high frequencies and, in some cases dangerous voltages into a home or building and intermingle with its AC power supply. radio frequency (RF) waves from nearby broadcast transmitters can enter a home through the air and be picked up and reradiated by a building's electrical system, adding to a person's daily, ongoing exposure to man-made EMF energy.

“Humans can be exposed to these dangerous electrical contaminants simply by being in close proximity to a contaminated room or next to electrical devices plugged into AC outlets and are exposed to this toxin through “capacitive-coupling.””

–What Causes Dirty Electricity? from the Dirty Electricity (Canada) Web site, <https://web.archive.org/web/20120506035157/http://www.dirtyelectricity.ca/causes.htm> [Recovered with the Internet Archive Wayback Machine]. Accessed on 3 April 2024.

“Microwave generating equipment first became common during World War 2 with the development of radar. Soviet bloc countries reported that individuals exposed to microwaves frequently developed headaches, fatigue, loss of appetite, sleepiness, difficulty in concentration, poor memory, emotional instability, and labile cardiovascular function, and established stringent exposure standards. For a variety of reasons these reports were discounted in Western countries, where the prevailing belief was that there could be no adverse health effects of electromagnetic fields (EMFs) that were not mediated by tissue heating. The reported Soviet effects were at lower intensities than those that cause heating. However, there were several accidental exposures of radar operators in Western countries that resulted in persistent symptoms similar to those described above.”

–David Orlo Carpenter, ResearchGate: The microwave syndrome or electro-hypersensitivity: historical background, *Reviews on Environmental Health* 30(4), November 2015 [https://www.researchgate.net/publication/283718065_The_microwave_syndrome_or_electro-hypersensitivity_historical_background]

“Some biological effects are indeed associated with electromagnetic fields so weak that the energies in those fields are below the energy of random thermal fluctuations, and thus, according to classical physics, cannot possibly have any effect.

“The big fallacy is to assume that living systems are at thermodynamic equilibrium, which they are *not*. Systems at thermodynamic equilibrium are devoid of organised activities or structures, such as the mixture of gases in a closed airtight container that one finds only in textbooks.

“Organisms, in contrast, are open systems maintained *far away* from thermodynamic equilibrium by virtue of their ability to capture and *store* energy.

“Systems full of non-equilibrium energy are *excitable*, ie, they need only the slightest provocation to give, at times, disproportionately large effects. Unlike typical mechanical processes where effects are proportional to, and determined by the magnitude of the force, living processes are highly non-linear and unpredictable.

...

“Non-linear chaotic dynamics is not the only reason why weak electromagnetic fields should affect living systems.

“Robert Becker, Marino’s supervisor, had done a series of experiments beginning in the 1950s showing that the body of all organisms has a Direct Current (DC) field, and that electric currents produced all over the body are involved in controlling growth and regeneration. By the 1960s, Becker had already proposed that an electrical communication system exists within all living things, and demonstrated that externally applied fields could influence the processes of growth and regeneration.

“The fields and currents identified by Becker were actually found much earlier by another US biologist Harold Saxton Burr. He had proposed in the 1930s that all living things, from men to mice, from trees to seeds, are moulded and controlled by electro-dynamical fields, which he had measured and mapped extensively.

“These fields are in addition to the now well-known and accepted electrical activities of the brain that can be measured as electroencephalograms (EEG) and in the pace-maker of the heart as electrocardiograms (ECG).

“Electrical activities and ionic currents have also been measured in cultured cells and tissues. And the weak magnetic fields generated by current flows *all over the body* can now be measured non-invasively with the extremely sensitive Super Quantum Interference Device (SQUID) magnetometer. The evidence is overwhelming that electro-dynamical fields and currents are involved in intercommunication within the body. These fields and currents are connected to and correlated with the EEG and ECG that are a routine part of conventional biomedicine.

“The body uses electromagnetic signals of different frequencies and extents to intercommunicate. Hence it would be surprising if external electromagnetic fields did not have an effect. As Gerard Hyland points out, electromagnetic radiation from mobile phones and computers are well known to interfere with electronic medical devices such as pace-makers and telecommunication systems of airplanes. To deny that these radiation could influence the body’s own electro-dynamical intercommunication system is irrational to say the least. He is particularly worried about the similarity of mobile phone frequencies to the major EEG frequencies such as alpha and delta waves, and frequencies that could trigger epileptic fits in people suffering from epilepsy.

“Ten years ago in my laboratory, we found we could dramatically transform the global body pattern of the fruitfly larva simply by exposing the embryos within the first three hours of development for 30 min to very weak static magnetic fields. The transformation is unique and striking: the normal segmental pattern became twisted towards a helical pattern. In one instance, a completely helical larva was obtained.

“These experiments were significant for the following reasons. First, they involved *static* magnetic fields, so only moving charges or liquid crystals in a high degree of dynamic order could have been affected. Second, the energy in the fields were well below the threshold of random thermal fluctuations, and the only way they could have an effect is if the embryos were in an excitable, non-equilibrium state. Third, the *global* transformations indicate that the embryos must be *coherent* to a high degree. It means that *all* the molecules in the body of the embryo must be moving together in a correlated way, which incidentally also increased its sensitivity to weak fields.

“We have repeated and extended these experiments, which suggested that the effects of weak electromagnetic fields on body pattern formation is non-classical. In other words, it suggested that the embryo is *quantum* coherent.

“We have since obtained further evidence of the global coherence that exists in living organisms. The molecules are moving together so perfectly that the entire body appears liquid crystalline (see “What Barrier?” I-SIS Report November 2002 — <https://www.i-sis.org.uk/whatbarrier.php>).

“This new biology that I have sketched out, that enables us to understand, not only the sensitivity of organisms to weak electromagnetic fields, but also the holistic health practices of many cultural traditions, is being systematically ignored and excluded from mainstream discourse, while we continue to be poisoned with a range of environmental pollutants and by the ‘side-effects’ of drugs from conventional reductionist mechanistic medicine.”

–Dr. Mae-Wan Ho, *The Excluded Biology*: Successive reports have confirmed that electromagnetic fields too weak to cause burns and heating are linked to cancers and other illnesses. But these are still dismissed because of the presumed absence of “possible biological mechanisms” that could account for the effects. Dr. Mae-Wan Ho reveals a biology that can explain the effects, but has been ignored and excluded from mainstream discourse. 14/12/02, I-SIS miniseries “Fields of Influence,” <https://www.i-sis.org.uk/FOI4.php>

Why Did Irucka Embry Update and Release This Article Now?

My original intent was to update and release this article in early 2020 as the world shut-down due to the World Health Organization’s (WHO) decision to fraudulently declare a global “pandemic” due to the “coronavirus;” however, I was not able to complete the various updates until now. {Please note: The “coronavirus” has not and cannot “infect” anyone as the whole “germ theory of disease causation” is a monumental fraud. Please see my future article entitled: “Uprooting the Foundation of Fake Science’s “Germ Theory of Disease Causation”: Therefore Ending This Medical Fraud for Those With an Open Mind and an Open Heart” at <https://www.questionuniverse.com/oldway/columns.html#continue>. However, in the mean time until I finish writing that article, please visit [Germs Can Not & Do Not Cause Dis-ease: The “germ theory of disease causation” is a Fraud, Fake Science’s Fraudulent “germ theory of disease causation”, and No Proof of the Existence of the “Coronavirus” \(or any other “virus” for that matter\)](#). Also, please see my collection of online resources to help us rethink the current crisis (in perception) at https://www.questionuniverse.com/rethink_current_crisis.html.}

My intent was (and still is) to provide information regarding electromagnetic waves as an indoor air pollutant because so many things were (and still are) going virtual and people were staying indoors more. And many people were afraid to leave their homes thus they were spending more time in front of and around high technology (high-tech) equipment with the pulsating electromagnetic waves. This does not include the “dirty electricity” that powers most of our world because certain global actors have sought to discredit and ignore free energy/zero point energy sources of unlimited power. For more information on free energy/zero point energy, please visit [GlobalBEM – Breakthrough Energy Movement](#), [The Tom Bearden Website – Recovered with the Internet Archive: Wayback Machine](#), [New Energy Movement](#), and [Integrity Research Institute \(IRI\)](#).

I hope that this updated version of the paper provides “food for thought” and encourages you to read my various written material available at [Questioning the Universe Publishing \(QUP\) Books page](#), [True change begins from within...](#), [EcoC²S Media page](#), and [Grand Challenges for Engineering \(rethink, reimagine, & reFeel our profession\)](#).

Thank you.

Mid-Term Content ¹

What is the nature of “physical reality?” This concept must be explored, albeit briefly, in order for us to better understand how electromagnetic waves can travel through “physical space” and have a positive, negative, and/or neutral effect on “physical matter” in the “physical reality.” There are people that believe that space is empty and there are others that believe that space is filled with an energy and that it is not empty. This energy has been called orgone energy by Wilhelm Reich and (a)ether by Sir Jagadis Chandra Bose, Indian sages, Nikola Tesla, and many others. It has also been referred to as “cosmic ether of space, the neutrino sea, the dark matter wind, intergalactic medium, or cosmic plasmas.” Dr. William Tiller refers to ether as “R-space matter.” In biological settings, the “bioenergetic” or “biocosmic” concept has been referred to as either “animal magnetism” or the “vital force.” This biological concept, in particular, has been proven through the works of Chinese medicine’s acupuncture and European homeopathy. [1], [See this book for more information on bioenergetics, homeopathy, acupuncture, etc.: 2] The people that believe that space is empty support scientific theories such as the following: “the Big Bang Theory of Creation,” Albert Einstein’s “Theory of (Special) Relativity,” and “‘multi-universe’ quantum dynamics.” [1] Let’s further explore the concept of energetically-filled space and how it relates to electromagnetism.

What exactly is this energy called ether? It is believed that “ether must have an almost balanced charge-to-mass ratio and also respond to both positive and negative electrostatic impulses.” Nikola Tesla said that the conditions determined the positive or negative aspects. A sufficient example of the electrical behavior of the ether is provided by electrostatic generators. With the application of certain high voltages “the positive and negative dynamic sub-charges are separated by magnetic fields and condensed as electrons and ‘holes.’” Tesla demonstrated that he was aware that any seemingly “stationary” position on Earth was actually in motion, at a rate of “70,000 mph.” “The electrostatic charges ‘carried around’ are currents between atoms and the ether, which produce magnetism. The phenomena of ‘permanent magnetism’ or ‘cosmically induced’ magnetism are apparently due to electrostatic charges ‘carried around’ by cosmic molecular motion, in the universal ether field.

Since no one can hold atoms, electrons or molecules perfectly still—because they are in fantastic motion—all atoms and molecules carry currents producing magnetic fields. Since a magnetic field is the product of a current, no one can produce a magnetic field without electricity, moving through or along a conductor, or as electrostatic charges in local or cosmic motion.” [3] Furthermore, Nikola Tesla’s Dynamic Theory of Gravity declares that the electromagnetic force production phenomenon is the most important in the Universe. “He stated that mechanical motions are universally a result of the electromagnetic force acting upon and through media. Tesla’s idea was that gravity is the result of displacement of two polarized dielectrics, the aether from the outside and the mass from the inside of a planet. The gravity force comes from the outside as a push of the aether and not as a pull from the center of the mass.” [4]

Dr. William Tiller notes that the word ether comes from the Sanskrit word akash. He goes on to say that: “Though not considered a factor in present scientific theory on the nature of the material universe, ether has for millenia been so referred to by India’s sages. Paramahansa Yogananda spoke of ether as the background on which God

¹This document was originally written on 26 March 2012, using LibreOffice (<https://www.libreoffice.org/>) on the Trisquel GNU/Linux distribution, to satisfy the Mid-Term requirements for a graduate-level course in Air Pollution Control. It has been slightly modified and updated with additional information and resources.

projects the cosmic motion picture of creation. Space gives dimension to objects; ether separates the images. This “background,” a creative force that coordinates all spatial vibrations, is a necessary factor when considering the subtler forces — thought and life energy (prana) — and the nature of space and the origin of material forces and matter. Dr. Tiller’s term, R-space matter is synonymous with ether.” [5] Since Dr. Tiller brought up ether as being known by Indians for thousands of years it is appropriate to end the discussion on ether with some thoughts by an Indian biophysicist whose studies on the bioelectric response to electric stimuli will be discussed later in the health effects section.

Sir Jagadis Chandra Bose describes ether in this way: “Imagine a large electric organ, provided with an infinite number of stops, each giving rise to a particular ether note. Imagine the lowest stop producing one vibration in a second. We should then get a gigantic ether wave 186,000 miles long (this is because it travels at the speed of light). Let the next stop give rise to two vibrations in a second and let each succeeding stop produce higher and higher notes. What an infinite number of stops there would be! Imagine an unseen hand pressing the different stops in rapid succession, producing higher and higher notes. The ether note will thus rise in frequency from one vibration in a second to tens, to hundreds, to thousands, to millions to millions of millions. While the ethereal sea in which we are immersed is being thus agitated by these multitudinous waves, we shall remain entirely unaffected, for we possess no organs of perception to respond to these waves. As the ether note rises still higher in pitch we shall for a brief moment perceive a sensation of warmth. This will be the case when the ether vibration reaches a frequency of several billions of times a second. As the note rises still higher our eyes will begin to be affected, a red glimmer of light would be the first to make its appearance. From this point the few colours we see are comprised within a single octave of vibration – from 400 to 800 billions in one second. As the frequency of vibration rises still higher, our organs of perception fail us completely; a great gap in our consciousness obliterates the rest. The brief flash of light is succeeded by unbroken darkness.” [6] Essentially, Bose is saying that our human Consciousness (which has been highly refined by society) can not perceive the subtler aspects of reality, in this case ether. Although we can not perceive ether with our five basic senses, it doesn’t mean that ether does not exist. Let’s move up from the energetic fundamental building block of “physical reality” to the level of strings.

The string theory proposes that all of the particles that create matter and forces in the universe are made up of “tiny, vibrating fundamental strings.” “Each one of these strings is believed to be identical. What separates one string from another string is its resonance pattern or how it vibrates.”² All matter, not just fundamental strings, has resonance patterns associated with them. For example, pluck the string of a violin and you hear mainly one tone. This is the violin string’s fundamental resonance pattern or frequency. Also, the body of the violin has resonance frequencies which work to amplify the sound created by the single vibrating violin string. There’s also resonance in other matter too. For example, your desk has resonance frequencies, as does a flag pole, and so does the Earth.” [7] This also means that human beings have resonance frequencies as well.

Now that we have explained ether as it functions as part of the electromagnetic forces and as it applies to our “physical reality” and discussed the strings that make up particles, let’s consider the nature of particles. In the 1920s, Louis de Broglie demonstrated the concept that all particles in the Universe “travel with its own pilot wave envelope around it.” The primary waves in the envelope were called “information waves because they traveled at velocities greater than the speed of light.” “Recent experiments strongly suggest that (1) magnetic monopoles, functioning at the vacuum level between the fundamental particles that comprise atoms and molecules, ‘write’ these information waves, (2) a coupling substance (labeled deltrons³) from the higher dimensional domain of emotion allows the coarse electric particles and these fine information waves to interact so as to provide electromagnetism

²The original text uses “resonant pattern,” but it appears that it should actually be “resonance pattern.” [See reference 25].

³A deltron is “a postulated type of substance from the emotion domain of reality that can travel both slower than EM light in vacuum, and thus interact with D-space substance, and faster than such EM light, and thus interact with R-space substance. This allows D-space substance to interact with R-space substance via deltron/deltron interactions without violating Einstein’s relativity theory constraints.” [5]

(EM); and (3) human intention is able to interact directly with the deltrons so as to change the degree of this EM coupling and alter the magnitude of physical measurements. The magnitude of any physical measurement, and thus what we call physical reality, is comprised of two parts: (1) the coarse particular part; and (2) the fine information wave part. The magnitude of the second part is small relative to the first in our normal cognitive reality; however, it can be made larger using special procedures.” [8]

Therefore, we can say that there is an energy that permeates all matter, which essentially is an informational wave. This informational wave first exists in the “physical reality” as a vibrating string that makes up all particles and thus matter. These discussions into the true nature of the “physical reality” shed light onto the future discussions about the possible health effects of electromagnetic fields. Let’s now discuss the classical view of electromagnetism.

The electromagnetic force is one of the four known Universal forces. The other Universal forces are the following: “the strong nuclear force which binds quarks to form nucleons and binds nucleons to form nuclei,” “the weak nuclear force which causes certain forms of radioactive decay,” and lastly the gravitational force. The electromagnetic force involves the interactions between the electrically charged atomic nuclei and the electrons inside and around the atoms. In addition, the electromagnetic force also explains how those particles carry momentum by their movement. [9]

The electromagnetic force exists as both electric fields and magnetic fields. (See Figure 1 in Appendix I for a visual depiction of this force.) An electric field that is transformed generates a magnetic field and vice versa, a magnetic field that is altered creates an electric field. This phenomenon is called electromagnetic induction and it is fundamental to the operation of electrical generators, induction motors, and transformers. [10] After the electromagnetic field has been created, other charged matter in this field experience a force (which is similar to experience of planets in the gravitational field of the Sun). “If these other charges and currents are comparable in size to the sources producing the above electromagnetic field, then a new net electromagnetic field will be produced. Thus, the electromagnetic field may be viewed as a dynamic entity that causes other charges and currents to move, and which is also affected by them. These interactions are described by Maxwell’s equations and the Lorentz force law.” [11] Thus the electromagnetic field affects the behavior of charged objects in the vicinity of the field. [12]

The electromagnetic field is a wave as discussed previously. “Another concept of a wave is that it is a disturbance that is a function of time and/or space. This wave moves through a medium or space and transfers energy from point to point as it moves.” [13] The movement of the wave corresponds to the vibration of electrons or other electrically charged particles acting in the wave packet. Then, the energy created by this vibration travels in the form of waves, in this case – electromagnetic waves. [14] As all matter produces electromagnetic fields, we must look at the possible frequencies of these waves emanating in a field. The term “electromagnetic spectrum refers to the range of all possible frequencies of electromagnetic radiation. The electromagnetic spectrum of an object refers to the characteristic distribution of electromagnetic radiation emitted or absorbed by that particular body of matter.” [15] See Figure 2 in Appendix I for a pictorial representation of the electromagnetic spectrum.

What are the main types of electromagnetic wave activity? It is common to see the term electromagnetic radiation instead of electromagnetic fields. Therefore, let’s briefly discuss radiation. According to physics, radiation is a process by which energetic particles and/or waves travel through a medium, space, or ether. Based on the interactions with normal chemical matter, there are two types of radiation: ionizing and non-ionizing radiation. Ionizing radiation is that radiation that “has the sufficient energy to ionize an atom. Ionizing radiation includes Ultraviolet (UV) light, X-rays, and gamma rays. While non-ionizing radiation refers to radio waves, heat, or visible light. The radiation particles or waves radiate or travel outward in all directions from a single source.” The non-ionizing part of electromagnetic radiation contains electromagnetic waves (as individual quanta or particles) are not energetic enough to detach electrons from atoms or molecules thus, they can not ionize them. Other types of non-ionizing radiation include microwaves and infrared. [16] Non-ionizing electromagnetic radiation (or electromagnetic fields) rather than ionizing electromagnetic fields is the subject of this paper.

Electromagnetic radiation is electrical energy traveling through the ether (mistakenly called space) as an electromagnetic wave. Electrical energy traveling in a wire is a special case where the electrical energy is guided by a wire. There is both internal energy within the wire and external energy existing outside of the wire. When an electrical appliance is plugged into the electrical outlet of the building, then the power delivered to the appliance does not actually 'go through the cord,' but it is electromagnetic energy being "guided" by the electron activity in the power cord. The electromagnetic energy delivered to the load is external to the wire. The electron activity oscillating back and forth in the wire is a result of the external electromagnetic energy and in turn serves as a way of telling the electromagnetic wave to follow the wire. The electron movement in the wire is proportional to the strength of the wave being guided. [13] The electromagnetic energy "guided" by the electron activity in the power cord is a "field" of energy that surrounds the wire and floats just off the surface of the wire. "This floating zone or cloud of energy is actually made up of an electric field and a magnetic field." [12]

The electromagnetic radiation can also be called electromagnetic radiant energy. Electromagnetic sources produce both radiant energy and non-radiant fields. "With regards to the production of electromagnetic radiation from electrical appliances this radiant energy can travel away from its sources and exists even after the source is turned off. In contrast, some electric and magnetic fields exist near an electromagnetic source that are not projected into space or ether, and that cease to exist when the energy source is turned off." [12]

"The fact that exposure to power-frequency fields occurs at distances that are much shorter than the wavelength of 50/60 Hz radiation has important implications, because under such conditions (called "near-field"), the electric and magnetic fields can be treated as independent entities. This is in contrast to electromagnetic radiation, in which the electric and magnetic fields are linked." [12]

"The electric and magnetic waves that combine to form an electromagnetic wave travel at right angles to each other and to the direction of motion. If the current flowing through the wire is made to oscillate at a very rapid rate, the floating electromagnetic field will break free and be launched into space. Then, at the speed of light, the energy radiates outward in a pulsating pattern, much like the waves in the pond." [12]

"It is theorized that these waves are made up of tiny packets of radiant energy called photons. Streams of photons, each carrying energy and momentum, travel in waves like an undulating string of cars on a speeding roller coaster. At higher frequencies (above 1.7 kHz) such as those used by cell phones and Wi-Fi, the electromagnetic energy contained in these fields actually penetrates human tissue. [12]

What are the sources for the polluting forms of electromagnetic fields? Radiofrequency (RF) and microwave (MW) electromagnetic radiation are in the "frequency ranges 3 kilohertz (kHz) to 300 Megahertz (MHz), and 300 MHz to 300 Gigahertz (GHz), respectively."⁴ Sources of polluting RF and MW radiation includes, but is not limited, to the following sources: AC and DC electricity, radios, cellular telephones, the processing and cooking of foods, heat sealers, vinyl welders, airplanes, satellites, microwaves, high frequency welders, induction heaters, flow solder machines, broadcast antennas, communications transmitters, telecommunications and radar systems, radar transmitters, ion implant equipment, microwave drying equipment, electric trains and/or trams, transformers, hybrid vehicles, satellite dishes, video terminals and video display terminals (VDTs), diagnostic equipment, sputtering equipment, glue curing, Wi-Fi and other wireless communication networks, lights, high-tension electrical power lines, car key fobs, bedside lamps, building wiring, electric pylons, radio masts, electric alarm clocks, watches, base stations, synthetic clothing and hair and fur toys, electrical appliances (refrigerators, microwave ovens, stoves, heaters, radios, computers, vacuum cleaners, telephones, television sets, food mixers, dishwashers, washing machines, electric shavers, hairdryers, can openers, electric drill, electric blanket, electric clock, phone chargers, etc.), etc." [6], [9], [11], [12], [13], [15], [17], [18], [19], [10], [20], [21], [22], [23],

⁴A Hertz (Hz) is the "SI (International System of Units — *Système international d'unités* in French) unit of frequency that is defined as the number of cycles per second of a periodic phenomenon." [26], [27]

[16] There are radio frequency (RF) electromagnetic waves that are intentionally produced by “cellular phones, walkie talkies, garage door openers, radio stations, and television (TV) stations. As well, electric motor brushes, ignition systems of gasoline engines, medical equipment, computer systems and peripherals, and lightning create RF electromagnetic waves unintentionally.” The Sun, other stars, and planets, including the Earth also generate RF EM radiation as well. [13]

Although not recognized as electromagnetic wave forms of pollution, the following are electromagnetic waves condensed as particular matter and represent forms of indoor air pollution: micro and macro organisms, buildings themselves, combustion by-products, asbestos, aldehydes, Volatile Organic Compound (VOCs), Semi-Volatile Organic Compound (SVOCs). As well, radon gas is an EM wave pollutant as are noise waves.

What are possible health effects from the electromagnetic fields? Back to Sir Jagadis Chandra Bose whose experiments on non-human animals, metals, and plants may give us more insight into the vibrational frequency response to various stimuli by human beings (human animal). He determined that both positive and negative responses to the same stimuli can travel along the nervous system at different speeds. Bose’s experiments showed that the double impulse response was seen both in non-human animals and in plants, thus also in human animals as well. [6] Let’s remember that Brian Greene pointed out that all matter vibrates at a different frequency, therefore we can say that all micro- and macro-structures in the human body also vibrate at different frequencies. [7] Thus, the positive and negative response from a stimulation may or may not have an impact on a human animal’s full body (which operates at a different frequency than the individual physical structures of the body), but may have an effect on the cells, tissues, organs, bones, etc. What determines if there is a positive, negative, and/or neutral effect? Does the frequency of the stimuli have to match the frequency of the cell, tissue, organ, bone, etc.?

The health effects associated with exposure to EM fields varies from physical structure to physical structure and from whole person to whole person. The vibrational frequency is constantly changing thus there may be a negative, positive, and/or neutral effect from an EM field. The effect from the EM field will be determined by a possible match between the frequency of the EM field, at that moment, and the frequency of the physical structure also at that moment. Essentially, an electromagnetic field can have a therapeutic health effect, a detrimental health effect, and/or a neutral health effect. Possible negative health effects include disruption of cell communication, asthma, leukemia, Motor Neurone Disease, miscarriage, diabetes, malignant cancerous tumors, skin irritations, headaches, chronic fatigue, multiple sclerosis, epilepsy, Parkinson’s disease, Alzheimer’s disease, headaches, cancer, coronary heart disease, forgetfulness, blurred vision and other eye problems, etc. [6], [11], [12], [17], [18], [19], [10], [20], [21], [22], [23], [16]

In the State of Tennessee, there are no agencies that regulate non-ionizing electromagnetic radiation (radiofrequency and microwave radiation). The United States Centers for Disease Control and Prevention (CDC) National Institute for Occupational Safety and Health (NIOSH) “conducts research on protecting workers from proven and possible EMF health risks. This research focuses on radio frequencies (RF), which includes broadcast antennas, induction heaters, and cellular telephones; extremely low frequencies, which includes AC electricity and video display terminals (VDTs); and static magnetic fields, which includes DC electricity.” [23] The United States Department of Labor Occupational Safety & Health Administration (OSHA) does not have specific standards covering non-ionizing electromagnetic radiation, in particular, radiofrequency and microwave radiation. “Twenty-five states, Puerto Rico, and the Virgin Islands have OSHA-approved State Plans and have adopted their own standards and enforcement policies. Overall, these States have adopted standards that are identical to Federal OSHA regulations; however, some States have adopted different standards applicable to this area or may have different enforcement policies. There are no specific standards for radiofrequency and microwave radiation issues.” [18]

The United States Department of Labor Occupational Safety & Health Administration (OSHA) does not have specific standards covering extremely low frequency (ELF) fields. “ELF fields includes alternating current (AC) fields and other electromagnetic, non-ionizing radiation from 1 Hz to 300 Hz. ELF fields at 60 Hz are produced by

power lines, electrical wiring, and electrical equipment. Some epidemiological studies have suggested increased cancer risk associated with magnetic field exposures near electric power lines. There are currently no specific OSHA standards that address extremely low frequency (ELF) fields.” [16]

Although there aren't any specific OSHA standards for the topic of this paper, there are a couple of standards that will be pointed out here:

OSHA requires that “employers shall insure that employees do not look into an open waveguide which is connected to an energized source of microwave radiation.” [1910.268(p)(1)]

OSHA requires that “accessible areas associated with microwave communication systems where the electromagnetic radiation level exceeds the radiation protection guide given in § 1910.97 shall be posted as described in that section. The lower half of the warning symbol shall include the following:

“Radiation in this area may exceed hazard limitations and special precautions are required. Obtain specific instruction before entering.” [1910.268(p)(2)] [24]

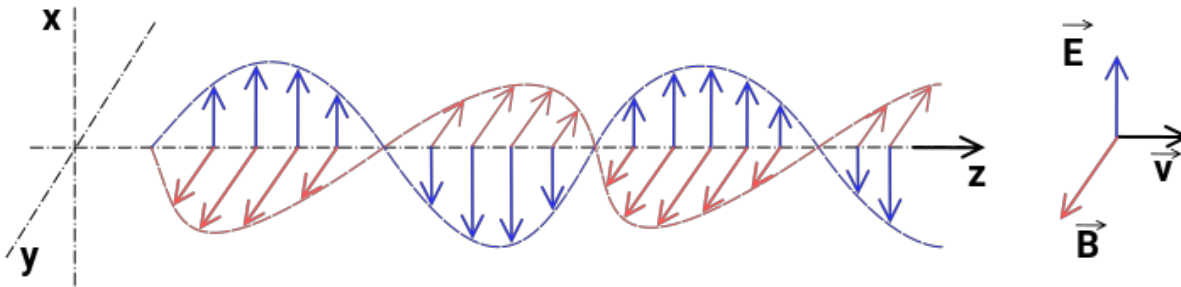
How can someone reduce the possible negative health effects from electromagnetic fields? In the case of electromagnetic fields created by synthetic clothing, someone can wear clothing of natural materials, such as cotton or linen, and also someone can wear leather-soled shoes instead of man-made soled shoes. [20]

For other exposures to EMF, there are various ways that someone can reduce the possible negative impact. 1) Someone can try to limit their personal exposure to EMF. 2) Someone can degauss or demagnetize their body. 3) Someone can use protective devices against EMF. 4) Someone can stimulate acupressure points (acupuncture without the needles) to desensitize themselves to EMF. 5) Someone can use blue and green lights to reduce EMF. [20] There are possibly other ways that someone can reduce the EMF around them, heal from the possible negative effects of EMF, and/or desensitize themselves to the negative effects of EMF.

In conclusion, in order to better understand the possible negative, positive, or neutral effects of electromagnetic waves, one must consider information from a wide variety of sources so that we can all better understand this complex phenomenon that we all possess.

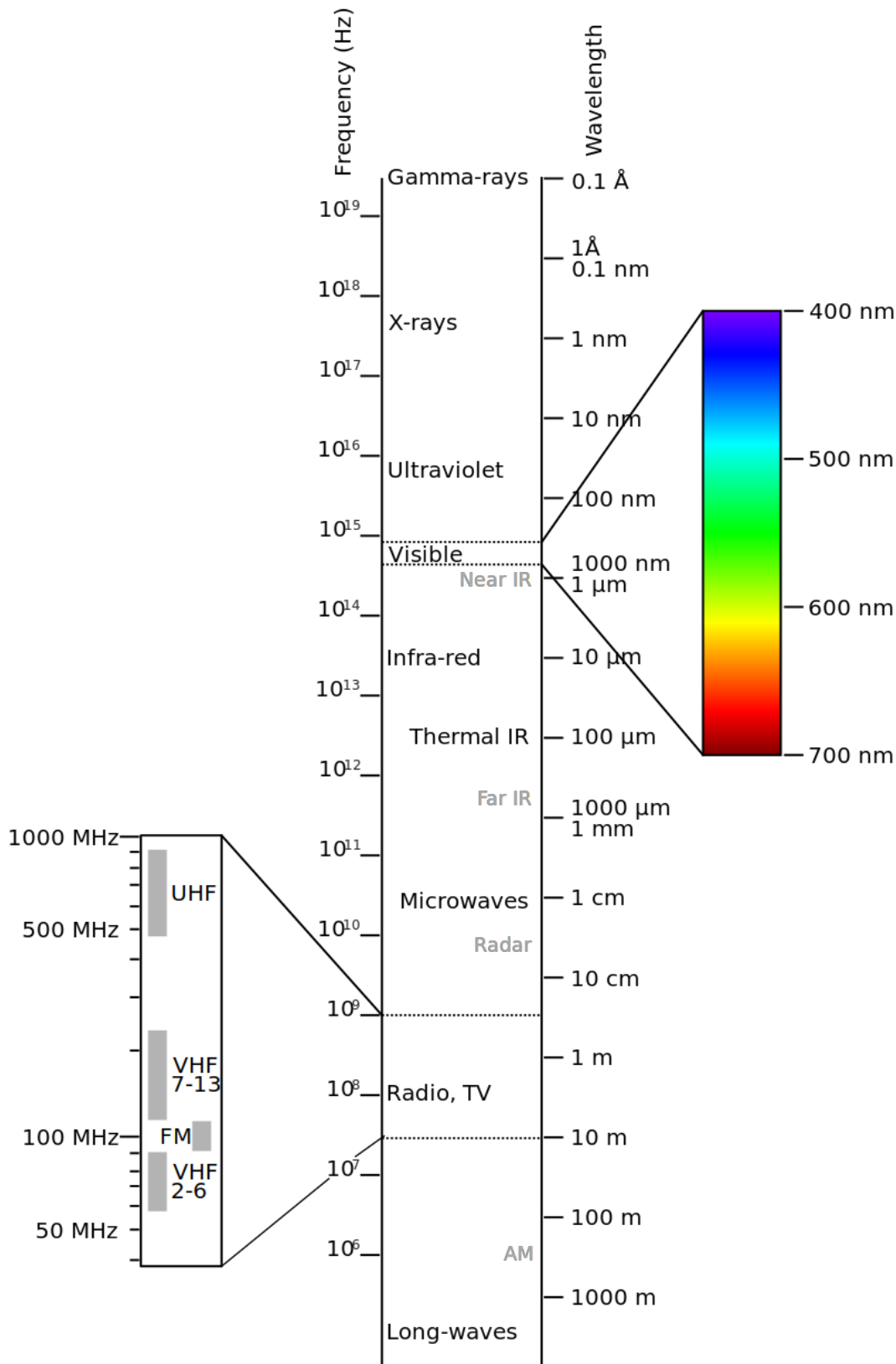
Appendix I

Electromagnetic Wave image



Caption 2: “A linearly polarized sinusoidal electromagnetic wave, propagating in the direction $+z$ through a homogeneous, isotropic, dissipationless medium, such as vacuum. The electric field (blue arrows) oscillates in the $\pm x$ -direction, and the orthogonal magnetic field (red arrows) oscillates in phase with the electric field, but in the $\pm y$ -direction.” The electromagnetic wave image was created by SuperManu [https://en.wikipedia.org/wiki/Electromagnetic_radiation#/media/File:Onde_electromagnetique.svg]. Accessed on 23 May 2021

Light Electromagnetic Spectrum image



Caption 3: The electromagnetic spectrum image was created by Victor Blacus [<https://en.wikipedia.org/wiki/File:Electromagnetic-Spectrum.svg>]. Accessed on 23 May 2021

“When most people think about light it’s what our eyes can see, visible light—the single octave from red-to-violet light in the electromagnetic spectrum—although, in the scientific lexicon **“light” is defined as the EM spectrum in its entirety**. There are frequencies we can hear and see—but the frequencies we cannot hear and see are known as radio, micro, infrared, ultraviolet, x-ray, and gamma rays.”

–Thunderbolts: Buddy James: The Sounds of Light Posted by Scott Douglass, January 13, 2024 [<https://www.thunderbolts.info/wp/2024/01/13/buddy-james-the-sounds-of-light-thunderbolts/>]

Appendix II

Plasma Electric Universe Online Resources

https://www.i-sis.org.uk/Galaxy_making_stars_at_the_edge_of_the_universe.php

Science in Society Archive: Physics of Organisms: Galaxy Making Stars at the Edge of the Universe and Other “Surprises”: The Universe is 14 billion years old, but galaxies were already making stars at prodigious rates by 700 million years after the Big Bang if not sooner, and there is no turbulence when galaxies collide to form huge clusters; surely the theory can’t be right Dr Mae-Wan Ho (ISIS Report 07/11/13)

<https://www.plasma-universe.com/>

The Plasma Universe is a term coined by Nobel Laureate Hannes Alfvén to highlight the importance of plasma throughout the Universe.

<https://www.plasma-universe.com/plasma-cosmology/>

Plasma cosmology is a model of the origins of the Universe in which plasma and electromagnetic forces play a significant role, and in which an actualistic approach is preferred: i.e. starting from the observed present-state and trying to extrapolate backwards in time to even more ancient states.

<http://www.plasmacosmology.net/>

Plasma Cosmology .net

https://en.wikipedia.org/wiki/Plasma_Universe

Plasma cosmology: From Wikipedia, the free encyclopedia

<http://www.plasmauniverse.info/>

Plasma Universe

<http://plasma.lanl.gov/>

The Plasma Universe, Los Alamos National Laboratory, Operated by the University of California for the U.S. Department of Energy

<https://www.electricuniverse.info/electric-universe-plasma-universe/>

The Electric Universe Theory: Electric Universe/Plasma Universe

<http://www.the-electric-universe.info/>

Dr. Körtvélyessy: the Electric Universe

<https://www.electricuniverse.info>

The Electric Universe Theory

<https://www.electricuniverse.info/Introduction>

The Electric Universe theory Wiki

<http://www.holoscience.com/wp/>

The Electric Universe: A sound cosmology for the 21st century

<https://www.thunderbolts.info/wp/>

The Thunderbolts Project™: A voice for the Electric Universe

https://www.i-sis.org.uk/Cosmic_Web_or_Cosmic_Electricity_Grid.php

Science in Society Archive: ‘Cosmic Web’ or Cosmic Electricity Grid: Observations on the largescale structure

of the Universe over the past decades have given rise to the notion of the 'cosmic web,' which is nothing if not the cosmic electricity grid of the Electric Plasma Universe Dr Mae-Wan Ho (ISIS Report 19/10/15)

https://www.i-sis.org.uk/Continuous_Creation_from_Electric_Plasma.php

Science in Society Archive: Physics of Organisms: Continuous Creation from Electric Plasma versus Big Bang Universe: The Big Bang Universe, 95% unobservable in hypothetical dark matter and dark energy is giving way to one alive with electric plasma currents accumulating mass and transferring energy over galactic and intergalactic space in a cosmic extravaganza of constant creation Dr Mae-Wan Ho (ISIS Report 11/11/13)

<https://electrogravityphysics.com/>

ElectroGravityPhysics.com: Promoting an Electrical Understanding of the Nature of Gravity

<http://journal.borderlandsciences.org/category/etheric-physics/>

Borderland Sciences Research Foundation: Etheric & Alternative Physics: *Journal of Borderland Research*

<https://borderlandsciences.org/cart/geometric-ether-antennas/>

Borderland Sciences Research Foundation: Geometric Ether Antennas

Posted by James Borges, 2015/06/02

More Print Resources on Bioenergetics and Vibrational Healing

Living Rainbow H₂O

By Mae-Wan Ho

World Scientific Publishing Company

2012

ISBN# 978-981-439089-7

The Rainbow and the Worm: The Physics of Organisms, Third Edition

By Mae-Wan Ho

World Scientific Publishing Company

2008

ISBN# 978-981-283260-3

The Body Electric: Electromagnetism and the Foundation of Life

By Robert O. Becker, M.D. and Gary Selden

William Morrow Paperbacks

1998

ISBN# 978-0-688-06971-1

Vibrational Medicine: The #1 Handbook of Subtle-Energy Therapies, Third Edition

By Richard Gerber, M.D.

Bear & Company

2001

ISBN# 978-1-879181-58-8

The Science of Homeopathy

By George Vitthoulkas

Grove Press, Inc.

1980

ISBN# 0-394-50866-1

LCCN # 79-52056

Energy Production in the Past (So That People Don't Blindly Believe That Energy Production Has Only Existed in the "Modern" World}

https://www.bibliotecapleyades.net/ciencia/ciencia_hitech02.htm

Virtual Library: The Modern Past - Batteries and Electric Devices / El Pasado Moderno - Baterías y Aparatos Eléctricos

<http://www.ancient-wisdom.com/electricity.htm>

The Ancient Wisdom Foundation: Ancient Electricians

<https://web.archive.org/web/20220416190551/https://cheniere.org/misc/Peregrinus.htm>

The Tom Bearden Website - Overunity Devices: Peter Peregrinus's Motor (1269 A.D.) [Recovered with the Internet Archive: Wayback Machine]

<https://inv.nadeko.net/watch?v=p8KWp61co1A>

Ancient Civilizations & Free Energy | Michael Tellinger {YouTube video}

Uploaded by GlobalBEM on Nov 27, 2013

<https://www.michaeltellinger.com/>

Michael Tellinger

<https://gizapower.com/gizeh/>

Giza Power – The Official Christopher Dunn Website

https://www.researchgate.net/publication/369480139_Title_Wireless_Electricity_from_the_Gods_The_Surprising_Link_Between_Ancient_Egypt_Nikola_Tesla_and_Modern_Science

ResearchGate: Wireless Electricity from the Gods: The Surprising Link Between Ancient Egypt, Nikola Tesla, and Modern Science

By MD Showket Hasan

<https://grahamhancock.com/kreisbergg1/>

Did Ancient Humans Have Knowledge of the Electromagnetic (EM) Spectrum?

by Glenn Kreisberg, 21st November 2005

<https://www.ancient-code.com/ancient-power-sources-of-the-gods-advanced-technology-and-our-ancestors/>

The Ancient Code: Ancient Power Sources of the Gods: Advanced technology and our ancestors, April 20, 2022

Online Resources provided by Irucka Embry

<https://www.ecoccs.com/read-the-labels.html#interact>

EcoC²S [Irucka Embry): Read the Labels Campaign Resources: **Electromagnetic Radiation (EMR)/Fields (EMF) & (Multiple) Chemical Interactions**

<https://www.ecoccs.com/healing.html#ultrasound>

EcoC²S [Irucka Embry): Resources for a Healthier You (Resources to help us take responsibility back to heal ourselves and each other): **Ultrasounds (Helpful or Harmful?)**

<https://www.questionuniverse.com/rethink.html#energy>

Questioning the Universe Publishing (QUP) {Irucka Embry}: Resources to help us rethink, reimagine, & reFeel our world: **Survival, DIY (Do-it-Yourself), Homesteading, Beyond Scientism to Real Science, Benevolent Weather Modifying, Renewable Energy, Free Energy/Zero Point Energy, Levitation/Anti-Gravity, Earth Healing, Earth Spirits, Dowsing, Geomancy, Ancient Mysteries, Re-Examining the Histories of Humanity, Extra-Terrestrials/Aliens, Inter-/Intra-Dimensional Beings, etc.**

<https://www.ecoccs.com/resources-links.html>

EcoC²S [Irucka Embry): EcoC²S Online Resources

<https://www.ecoccs.com/resources-links.html#missing>

EcoC²S [Irucka Embry): EcoC²S Online Resources: **What Biotechnology, Genetic Engineering, Synthetic “Biology,” Cloning, Nanotechnology, High-Technology (High Tech), Conventional Renewable Energy Technologies (“Solar,” Geothermal, Wind, etc.), and Related Technologies are missing**

<https://www.ecoccs.com/resources-links.html#em>

EcoC²S [Irucka Embry): EcoC²S Online Resources: **ElectroMagnetism**

<https://www.ecoccs.com/resources-links.html#mag-field>

EcoC²S [Irucka Embry): EcoC²S Online Resources: **Earth’s Magnetic Fields (including Geopathic Stress)**

<https://www.ecoccs.com/resources-links.html#pos-mag>

EcoC²S [Irucka Embry): EcoC²S Online Resources: **Positive Applications of Magnetism and ElectroMagnetism**

<https://www.ecoccs.com/healing.html#vib>

EcoC²S [Irucka Embry): Resources for a Healthier You (Resources to help us take responsibility back to heal ourselves and each other): **Energy and Vibrational Medicine Healing**

<https://www.ecoccs.com/healing.html#music>

EcoC²S [Irucka Embry): EcoC²S Resources for a Healthier You (Resources to help us take responsibility back to heal ourselves and each other): **Healing Through the Healing Vibrations of Sound Frequencies**

<https://www.ecoccs.com/resources-links.html#energy-plant>

EcoC²S [Irucka Embry): EcoC²S Online Resources: **Energies and Plant Growth**

<https://www.ecoccs.com/resources-links.html#hightech>

EcoC²S [Irucka Embry): EcoC²S Online Resources: **Negative Effects of High-Technology (High Tech)**

<https://www.ecoccs.com/resources-links.html#em-health>

EcoC²S [Irucka Embry): EcoC²S Online Resources: **ElectroMagnetism and Adverse Health Effects**

<https://www.ecoccs.com/resources-links.html#em-Life>

EcoC²S [Irucka Embry): EcoC²S Online Resources: **ElectroMagnetism and Adverse Health Effects on Life Systems**

<https://www.ecoccs.com/resources-links.html#5G>

EcoC²S [Irucka Embry): EcoC²S Online Resources: **1G-8G**

<https://www.ecoccs.com/resources-links.html#smartisdumb>

EcoC²S [Irucka Embry): EcoC²S Online Resources: **Smart (Bed, Cards, Cars, Cities, Clothing, Contact Lenses, Dust, Glasses, Grid, Houses, Light Bulbs, Phones, Meters, Radios, Television/TV {Boob Tubes}, Toilet, Transportation [Intelligent Transportation Systems {ITS}], Walls, Watches, etc.) Or How to Control Your Mind & Dumb Us Down While Stealing Your Privacy, Selling Your Personal Information (Data), and Kill You and Others at the Same Time**

<https://www.ecoccs.com/resources-links.html#cfl>

EcoC²S [Irucka Embry): EcoC²S Online Resources: **Compact Fluorescent Light (CFL) Bulbs**

<https://www.ecoccs.com/resources-links.html#led>

EcoC²S [Irucka Embry): EcoC²S Online Resources: **Light Emitting Diode (LED) Light Bulbs**

Additional Online Resources

https://en.wikipedia.org/wiki/Schumann_resonance

Schumann resonances: From Wikipedia, the free encyclopedia

<https://www.shieldyourbody.com/schumann-resonance/>

Shield Your Body Blog: Schumann Resonance: What Is It, and Why Is It Important for Your Health?, Last Updated June 30, 2022

<https://emfadvice.com/plants-absorb-eliminate-radiation/>

EMF Advice: 10 Plants That Can Absorb Electromagnetic Radiation
by Daniel

<https://greenmedinfo.com/anti-therapeutic-action/electromagnetic-field-harms>

GreenMedInfo: Electromagnetic Field Harms

<https://www.drrobertyoung.com/post/the-effects-electromagnet-frequencies-on-the-blood-and-biological-terrain>

The Effects of ElectroMagnetic Frequencies (EMF) on the Blood and Biological Terrain
By Robert O Young DSc, PhD, Updated: May 21, 2023

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Dr. Zory Glaser

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The Cellular Phone Task Force is dedicated to halting the expansion of wireless technology because it cannot be made safe, providing education to the public concerning electromagnetic pollution (electrosmog), advocacy for an electromagnetically cleaner environment and support for individuals disabled by radiation from wireless technology and other sources.

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written by Christian

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Dirty Electricity: What Causes Dirty Electricity? [Recovered with the Internet Archive: Wayback Machine]

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Frequency Questions

- 1) How and when do internal and/or external frequencies change?

- 2) What is/are the process(es) by which frequencies interact with other frequencies?
- 3)
 - a) Is it possible for certain frequencies to cause healing to occur?
 - b) If so, then which ones? If so, at which particular frequencies?
- 4)
 - a) Is it possible for certain frequencies to cause “dis-ease” to occur?
 - b) If so, then which ones? If so, at which particular frequencies?
- 5) What is the frequency of Life creating (positive vibrations) light spectrum frequencies (across the whole EMF spectrum)?
- 6) What is the frequency of Death creating (negative vibrations) light spectrum frequencies (across the whole EMF spectrum)?
- 7) What is the frequency range of structured water?
- 8) What is the frequency range of unstructured water?
- 9) What is the frequency of water emanating with the frequency of Love?
- 10) What is the frequency of water emanating with the frequency of hate?
- 11) What is the frequency range of water bombarded with pulsating electromagnetic radiation atop an above ground water storage tank?
- 12) What is the frequency range of water in an above ground water storage tank not bombarded by pulsating electromagnetic radiation?
- 13) What is the frequency of biological Life?
- 14) Does the frequency of biological Life stay static or is it dynamic?
- 15) Is the frequency of biological Life the same across all life forms or is it varying between and within life forms?
- 16) What is the frequency of synthetic life?
- 17) Does the frequency of synthetic life stay static or is it dynamic?
- 18) Is the frequency of synthetic life the same across all synthetic life forms or is it varying between and within synthetic life forms?
- 19) What is the frequency of a human body? Does it vary within a human body or is it constant?
- 20) Do all human beings have the same frequency?
- 21) What is the frequency of health?
- 22) What is the frequency of healthy cells?
- 23) What is the frequency of “dis-ease?”
- 24) What is the frequency of “dis-eased” cells?

Please see the following articles discussing questions 19 and 21:

https://www.researchgate.net/publication/340232697_The_human_body_frequency

ResearchGate: The human body frequency

By Khaled Hamlaoui, March 2020

https://www.researchgate.net/publication/243055627_Frequencies_that_Heal_and_Frequencies_that_Kill_A_new_perspective_on_how_EMR_exposure_affects_human_physiology

ResearchGate: Frequencies that Heal and Frequencies that Kill A new perspective on how EMR exposure affects human physiology

By James D. Honeycutt, June 2013

- 25) What is(are) the frequency(ies) of the Earth?
- 26) Does the frequency of the Earth vary between the deepest depths of the oceans and the furthest reaches of the Earth in “space?”
- 27) What factor(s) can alter the frequency(ies) of the Earth?
- 28) How does the frequency(ies) of the Earth interact with the progression of “dis-ease” and/or Health in Life on Planet Earth [both in the biosphere and in the inner Earth]?
- 29) Which frequency(ies) enter our bodies when we walk barefoot upon the bare Earth and/or lay our hands upon the Earth?
- 30) What is the frequency of the inner Earth? Is it different from the Earth that we call home (the biosphere)?
- 31) What is the frequency of the Sun?
- 32) What is the frequency of the other planetary bodies and stars (Jupiter and Saturn) within our Solar System?
- 33) What is the frequency of Love?
- 34) What is the frequency of fear?
- 35) What is the frequency of true snow?
- 36) What is the frequency of other forms of true precipitation?
- 37) What is the frequency of chemically nucleated snow?

Please see the following articles on chemically nucleated snow if you think that we are still receiving true snow:

<https://www.geoengineeringwatch.org/chemically-nucleated-snow-what-is-it/>

Geoengineering Watch: Chemically Nucleated Snow, What Is It?, January 31, 2014

<https://www.geoengineeringwatch.org/chemically-nucleated-winter-weather/>

Geoengineering Watch: Chemically Nucleated Winter Weather

By Dane Wigington, February 18, 2021

<https://www.geoengineeringwatch.org/category/geoengineering/results-of/ice-nucleated-snow/>

Geoengineering Watch: Aftermath Of Chemical Ice Nucleation

By Dane Wigington, March 25, 2021

- 38) What is the frequency of other forms of chemically nucleated precipitation?
- 39) What is the frequency(ies) of true lightning?
- 40) What is the frequency(ies) of true thunder?

- 41) What is the frequency(ies) of fake/artificial lightning?
- 42) What is the frequency(ies) of fake/artificial thunder?
- 43) What is the frequency(ies) of true clouds?
- 44) What is the frequency(ies) of fake/artificial “clouds?”
- 45) What is the frequency(ies) of artificially induced “electrosmog?”

<https://www.globalresearch.ca/electrosmog-policy-brief/5827117>

“Electrosmog” is the Totality of the Electric Fields, Magnetic Fields, and Electromagnetic Radiation: This Policy Brief Provides an Overview of an Immediate Threat to Life on Earth
By Arthur Firstenberg, Kathleen Burke, Dr. Christof Plothe, and Cellular Phone Task Force Global Research, August 04, 2023/Cellular Phone Task Force

- 46) a) Do the artificial constructs (precipitation, lightning, thunder, clouds, “electrosmog,” etc.) alter the natural frequencies of the biosphere, of Life Forms, etc.?
b) If so, how?
- 47) What is the frequency(ies) of ancient wireless technologies?
- 48) What is the frequency(ies) of present-day wireless technologies?
- 49) a) Is there a difference between the frequency(ies) of ancient wireless technologies and the frequency(ies) of present-day wireless technologies?
b) If so, then why?

Source

Creating footnotes in an R Markdown PDF document

Stack Overflow: “r - Use Endnotes in an rmarkdown Word Document”, answered by Steve Powell on Jul 19 2018, <https://stackoverflow.com/questions/46534522/use-endnotes-in-an-rmarkdown-word-document>

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True change begins from within...: An Interested Aspect of the Universal Creator, Having an Experience as a “Human Being,” Explores the Ongoing Revolution of Totality: **The Revolution Continues**

https://www.researchgate.net/publication/351785943_Electromagnetic_Waves_as_an_Indoor_Air_Pollutant

Electromagnetic Waves as an Indoor Air Pollutant on ResearchGate, Originally Posted in May 2021

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- consultant,
- ecological activist (encompassing economic, environmental, and social justice),
- environmental engineer [Engineer-in-Training (EIT)],
- event planner [<https://www.ecoccs.com/events/ecoc2s-events.html>],
- freedom advocate,
- herbalist (“lover and user of Plants”),
- artisanal home chef & food forager,
- lay homeopath {<https://www.ecoccs.com/healing.html#homeo>} — saw a professional, classical homeopath from 1999 - 2009 who encouraged me to become a homeopath by first educating mySelf,
- performing and visual artist (creative writing — <https://www.qup.quest/balancing-the-rift.html>, drawing, Hip Hop musician/songwriter — <https://www.vibrationkunvorted.com>, painting, photography, etc.),
- polyculture food grower [<https://www.gettingback2nature.farm>] and advocate of everyone eating,
- public speaker/instructor/teacher,
- R data analyst / data scientist / developer / trainer {<https://www.ecoccs.com/rtraining.html>},
- researcher [<https://www.ecoccs.com/resources.html>],
- self-studier of (agro)homeopathy and biodynamics (<https://www.ecoccs.com/resources-links.html#biody-ag>),
- small business owner/entrepreneur {<https://www.ecoccs.com>},
- Truth Seeker/Questioner,
- tutor,
- etc.

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Works Cited

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