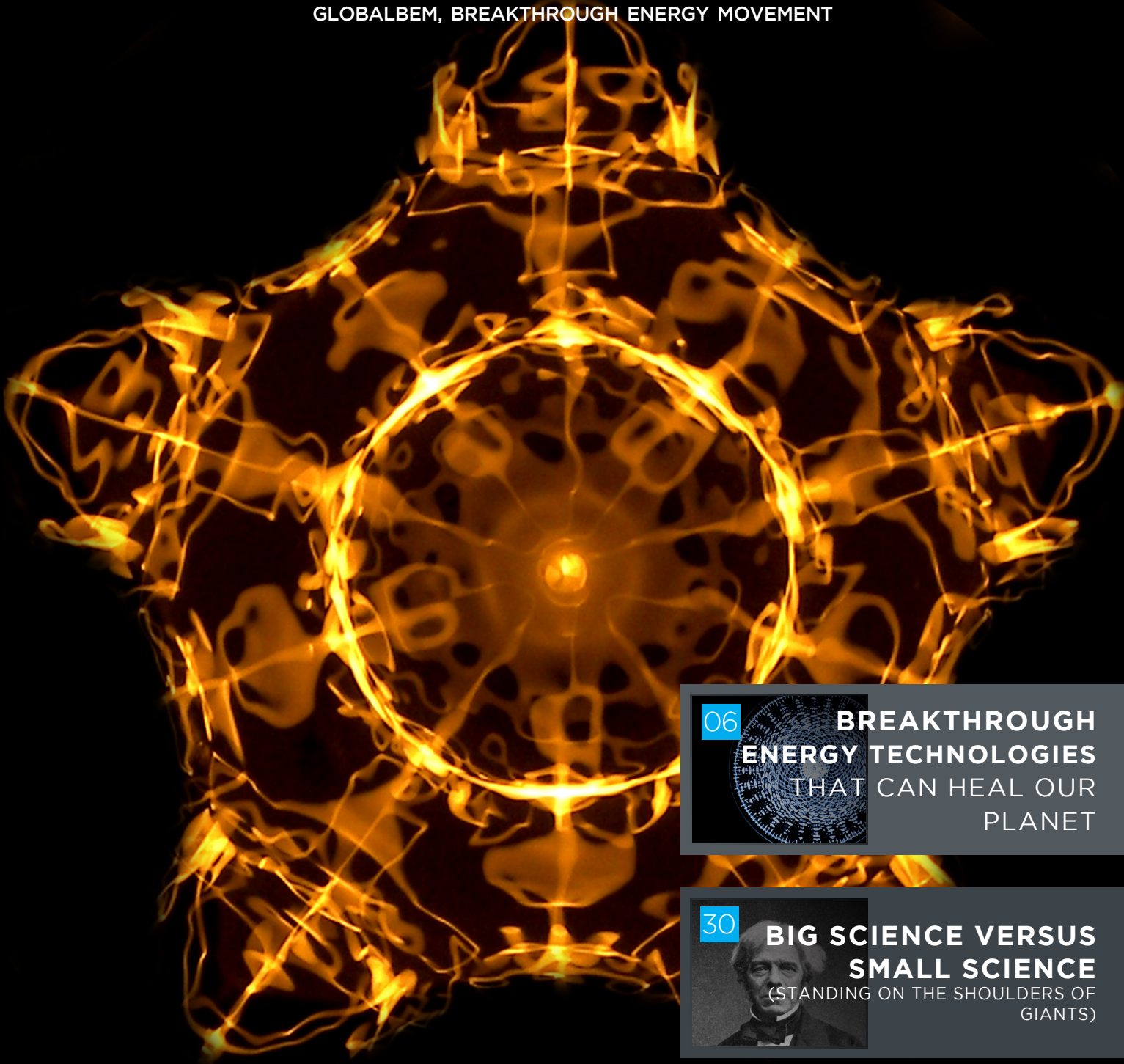


ISSUE NO.4 • SPRING 2015

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GLOBALBEM, BREAKTHROUGH ENERGY MOVEMENT



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# FROM THE EDITOR

Dear readers,

As you all know, steps towards a better tomorrow always start with individuals. They start with one or a few humans who break through established ideas and mainstream views and see new perspectives and possibilities at the horizon. This applies to all areas and levels of our lives. But particularly to the terrain of energy, simply because everything is energy. And how we, humans, use it, touches everything. The question is always: Will the new ideas and Small Science inventions of these individual thinkers and tinkerers reach the mainstream of both the public and Big Science? And will both take up these new possibilities to change towards safer and environmentally friendlier sources of energy and with that to a more advanced human civilisation?


The first Global Divestment Day, which took place on February 13 and 14, is one clear answer from humans worldwide with regard to their wishes to step away from King C.O.N.G. (Coal, Oil, Nuclear and Gas) towards both renewable and breakthrough energies.

In this edition you will find amongst others an article by Open Source reporter and researcher Russ Gries about how to successfully use Open Source. Ken Rohla talks about how Breakthrough Energy Technologies can heal our planet. And Jeane Manning has interviewed Moray B. King on two subjects. The first is about his current work. The last is about how to deal with career skeptics. The answer lies in how to look at paradigms.

Or as Socrates stated long ago already: "The secret of change is to focus all of your energy, not on fighting the old, but on building the new."

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PULSE MAGAZINE

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BREAKTHROUGH ENERGY  
MOVEMENT.

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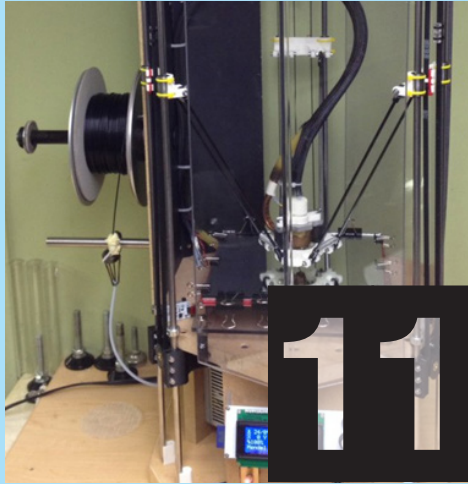
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# OPEN SOURCE, ONE STEP TOWARDS A BETTER TOMORROW



Over the last 7 years, I have invested more time than I can count contributing to the research and development of new energy, and I have learned that the most important thing is to be open source. It is a fundamental key to successfully releasing new technology to the public. In this article I will give you reasons and examples of how open source has boosted the success in getting new technology to the public.



# WHAT IS NEEDED IS AN ENERGY BREAKTHROUGH IN HUMAN BEHAVIOUR



At this moment in time many humans are searching more desperately than the decades before for Breakthrough Energies. The reason though is still more out of necessity than out of wisdom. These energies are very much needed as they promise to be much more environmentally friendly, more abundant, safer and therefore much cheaper than the King C.O.N.G. energies, which have devastated our planet and kept billions of humans in very poor living conditions since the start of the Industrial Revolution.



## HOW TO DEAL WITH CAREER SKEPTICS

Moray King's remarks, during a Paradigm Shifts presentation last year, are meant for inventors, but also give newcomers to the breakthrough-energy field a broad perspective on the scene and its challenges.

A paradigm is a widely-accepted way of thinking, so it's created by influential people holding onto similar fundamental beliefs regarding what is real.



## MORAY B. KING ON MICROSCOPIC BALL LIGHTNING AND VIBRATION

Every year Moray B. King has more ideas on how to start a clean-energy revolution. Why is he now advising inventors to make tiny ball-lightning entities?

And why “vibrate your electrolyzer”? He explained why, in our telephone interview recently.



“BREAKTHROUGHS COME FROM ABSOLUTELY REFUSING TO SETTLE FOR THE STATUS QUO”

*Robert Kiyosaki*

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# BREAKTHROUGH ENERGY TECHNOLOGIES THAT CAN HEAL OUR PLANET

- KEN ROHLA -

SOURCE

6

Many of my more enlightened and health conscious friends are depressed about the state of the world when they look around and see the destruction of the planet and all of its life forms, including we humans. Some scientists claim that we are in another mass extinction on this planet, but they note that this time it is one humans have instigated. However, one of the reasons I'm still an optimist in a world of global nuclear contamination, mass geoengineering pollution, biowarfare, Genetically Modified Organisms (G.M.O.'s), and a litany of other threats to our existence is that I have personally seen, and in some cases worked with, the solutions for these and other major daunting problems we face as a planet. We do not face a shortage of technological solutions to these physical problems. What we face is a spiritual crisis, a crisis of consciousness and responsibility, a crisis of mass mind control, and based on my personal experience, extraterrestrial interference. We as a planet are engaged in a drama of our own creation, one which I view as a game of consciousness that is part of our growth process for us individually and collectively.

We find ourselves in act 4 scene 4, with many plot twists and turns still unfolding, but close to an ending before the show, as all things in the universe cycle, starts again. In our 11th hour, as John Denver once sang, "now for the first time, this could be our last time." Will we save ourselves and cycle into a new world of sustainable prosperity in spiritual connection with ourselves, nature and the ways of the cosmos, or self-destruct our society only to begin again in some other way? Because I have seen so many solutions to the physical and spiritual problems, I find it hard to believe that these solutions would exist in such abundance only for us to go up in a ball of flames, so to speak. As I look around, I see a choice is being made: some people are choosing to hang onto the old paradigms and are suffering and self-destructing, while those who change and adapt are not only surviving, but thriving. I'm a firm believer that consciousness creates reality, literally, not metaphorically (and there is scientific evidence for this), so what I see as one of the most important steps to change this world for the better is to bring these solutions to the awareness of the mass consciousness. So let me share with you some of the technological solutions to some of these major challenges we face.

## **New Energy and Cleaning Up the Old Energy Mess**

The evolution of our fundamental philosophical view of how we create and use energy has gotten us into trouble. From the use of fire in our early development we started on a path of using explosive force technology to power and light our lives, and thanks to the economic and political powers that have been, we have not strayed from that fundamental. When the planetary population is very small, nature can counteract the damaging effects of burning hydrocarbons. With a small population of humans polluting the planet, the Earth's natural systems of plants, water, atmosphere, etc. can clean up our mess. But with a large global population, we cannot operate with any systems that are not sustainable in the long run. The predominant energy production systems on Earth, burning hydrocarbons (coal, gas, oil, etc.) and nuclear fission, are all explosive force technology. As naturalist inventor Viktor Schauberger and others have noted, explosive force technology ALWAYS has toxic side effects. We must look to nature to model sustainable nondestructive energy systems. For energy production, that means implosive force technologies.

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## WE MUST LOOK TO NATURE TO MODEL SUSTAINABLE NONDESTRUCTIVE ENERGY SYSTEMS

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## **Water for Nonpolluting Fuel and Neutralizing Concentrated Radioactivity**

Water fuel is a technology that not only can provide a nontoxic source of energy, but can also clean up much of the existing pollution, including radioactive waste.

In 1994, I had the fortune of meeting and working with a man named Yull Brown who had developed a water fuel technology based on the work of a man named William A. Rhodes. In the 1960's Rhodes invented a combustible gas from water that he termed "single ducted gas." It

could be mixed with gasoline combustion to produce much greater fuel efficiency and less pollution. Rhodes developed it for welding and for whatever reason did not develop it as a fuel. It burned about 10 times faster than hydrogen or oxygen, was much hotter, and able to sublimate tungsten instantly, which is unheard of for conventional welding gases. It had weird quantum properties and would react with materials at the atomic level.

Brown experimented with water fuel in the 1970's, along with others, notably Andrija Puharich. By the time I met Brown in 1994, he had developed a relatively small generator to produce the gas. After years of opposition and even attempts on his life for powering vehicles, Brown figured rather than attempting to get it on the market as a replacement for conventional fuels, he would market it as a welder as Rhodes and others had successfully done since the 1960's. Brown was able to produce about 2,000 of these machines before his efforts were sabotaged by various interests. During this time I attended several demonstrations before a group of scientists, engineers, politicians and U.S. Department of Energy observers of Brown's Gas applications, including neutralization of radioactive waste. Brown would use the gas to run a torch that would burn the nuclear materials with iron and aluminum which would create a reaction at the atomic level that would transmute the materials into nonradioactive elements. Rather than explode when ignited, the gas implodes back into liquid water, so there are no toxic byproducts from combustion. At one point I got a Brown's gas generator myself and was able to confirm some of its strange properties, such as welding dissimilar materials that could normally not be welded together, such as dissimilar metals, ceramic or stone to metal, wood to glass or metal, etc. It can do this because it rearranges atomic structure.

Brown was apparently more successful than Rhodes at marketing his gas, so the technology is now predominantly referred to as "Brown's Gas," "HHO" or "Hydroxy," but sometimes "Rhodes gas," or a litany of other names. There have been many others who have since developed water fuels, most notably Stanley Meyer in the 1980's and early 90's. Meyer's technology had one distinct advantage; the water used for fuel did not have to be clean, distilled water like Brown's. You could take polluted water and Meyer's machine would extract the H<sub>2</sub>O, leaving the pollutants behind, which could then be burned with the gas and transmuted from toxic elements to nontoxic.

Sadly, Meyer was reportedly murdered in 1998, and Yull Brown died a few months later. Fortunately knowledge of Brown's gas technology lives on; many have replicated it, and George Wiseman of Eagle Research has not only expanded the knowledge and applications of it, but has open-sourced all of his discoveries freely so the world may access it. Meyer's technology was sequestered for several years by his family and then sold, some to Steven M. Greer, M.D. of The Disclosure Project, but most of the technology secrets went to an unnamed

private company that spent millions developing it, only to be stopped by opposing interests. According to Greer, some of Meyer's discoveries were even greater than water fuel but are owned by the undisclosed company. Thankfully Dr. Greer understands that the only way this technology will get out to the world is to give it away freely, and he is taking steps to do so. So knowledge of these water fuel technologies are becoming much more widespread across the globe.

### **Other Solutions for Concentrated Radioactivity**

The good news is, water fuel is by far not the only solution that exists for remediating concentrated sources of radioactivity like that found in nuclear waste. The late Dr. Radha Roy, Professor Emeritus of Physics at Arizona State University, in 1979 developed a method known as the Roy process for neutralizing radioactive waste. Roy was a world renowned nuclear physicist with impeccable credentials and peer reviewed scientific testing of his process. His work is being kept alive by his colleague, Dennis F. Nester.

The late Paul M. Brown, Ph.D. is another pioneer who had a well-documented process for neutralizing radioactive waste. He died in unusual circumstances in an illegal street racing accident. His work is being continued by his colleague and friend, Thomas Valone, Ph.D. of the Integrity Research Institute.<sup>1</sup>

Another solution that can also neutralize both nuclear waste and radioactivity dispersed in the environment is the Searl Effect Generator. Developed in the 1960's by John R. R. Searl, the device is made of a series of concentric rings of special magnets that Searl developed which, when spun in opposite directions, creates a strong toroidal magnetic field and a singularity which neutralizes radioactivity while generating electricity.

There are also 61 patents worldwide for technologies that involve transmutation of radioactive elements, including eight from Japan. You can see the full list on my website Fresh and Alive!<sup>2</sup>

So we have no shortage of solutions to eliminating nuclear waste, but these technologies threaten the multi-billion dollar nuclear waste disposal industry, nuclear materials industries, and nuclear power and weapons industries. Governments with nuclear weapons also do not want to let go of their nuclear advantage. So we, the people, especially those in positions of power and influence, must create change through our governments and laws to stop the suppression of these technologies, and end the proliferation of toxic technologies.

### **Methods for Neutralizing Environmental Radioactivity and Other Toxins**

If one accepts the premise that consciousness creates reality, then with that comes polarities of consciousness. As Russian astrophysicist Nikolai Kozyrev demonstrated, consciousness is a faster-than-light energy that can be detected and measured. This energy has been referred to as torsion waves, scalar waves, tachyon



energy, zero point energy, chi, prana, etc. But as nuclear physicist Thomas Bearden and others have discovered, in three dimensional reality it manifests polarities of charge in the creation of matter and electromagnetic energy. This infers that when problems from a particular viewpoint manifest, the solutions are always simultaneously manifested as well. So rather than lament and give up hope for seemingly insurmountable problems, all one has to do is seek the answers, and ultimately, they can *a/ways* be found.

We therefore have multiple solutions for nuclear fallout and other radioactive environmental pollution. As I mentioned, previously, the Searl Effect Generator is one possible solution. There are others that are already being implemented in the aftermath of the Chernobyl and Fukushima nuclear disasters. One of my favorites is a very simple, inexpensive, low tech solution that anyone can use - bioremediation using microbes to neutralize radioactivity. Dr. Teruo Higa from Japan has been using a mixture of microbes he developed called "Effective Microorganisms," or "E.M.," which can be easily and inexpensively propagated by mixing with water and molasses and allowing to ferment for a few weeks. The culture can then be diluted with thousands of parts of water before application, so only a small amount is needed for wide coverage. Because the microbes are probiotic, they are not only nontoxic, but highly beneficial, and can be fed to plants, animals and people, and used to detoxify polluted or radioactive bodies of water, soil and plants. E.M. will also eat toxic molds and fungi that often accompany a toxic environment. E.M. has many other uses, from nontoxic household cleaner to degreaser and odor eliminator. In Japan and around the world, Dr. Higa and his followers are using E.M. to break down toxins of all kinds, including radioactive ones, into nontoxic components. I have a video posted on my website of a farmer in Fukushima City whose crops and land were treated with E.M., and when his crops were tested, they showed no measurable radiation, when all the surrounding farmers could not sell their crops due to massive nuclear contamination.

Others are following Higa's lead. One example, Dr. Lynne Macaskie, Dr. Stephanie Handley-Sidhu and Dr. Joanna Renshaw at the University of Birmingham in the U.K. have been successfully neutralizing radioactivity with E. Coli and other bacteria, and lecturing about it in Japan. Oppenheimer Biotech in Austin, Texas, has a microbe mixture they have developed that can eat oil and break it down into nontoxic fish food, in minutes! It has been in use many years to clean up the 900+ oil spills annually in the gulf coast of Texas, but mysteriously was not allowed to be used to help clean up the Deep Water Horizon oil spill of 2010 until 2013.

Another bioremediation tool that can be used in conjunction with microbes are fungi. Mycologist Paul Stamets and others have done research showing how fungi can grow in radioactive soils and forests and absorb the radioactive elements, which can then be broken down into nontoxic constituents with microbes.

While these techniques may seem simple and low tech, they also involve very sophisticated physics which when understood can be better utilized. Microbes are nature's nanotech; they eat toxins and break them down into nontoxic components.

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## MICROBES ARE NATURE'S NANOTECH; THEY EAT TOXINS AND BREAK THEM DOWN INTO NONTOXIC COMPONENTS

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Fermentation, like photosynthesis, is a multidimensional quantum process. In the process of microbes breaking materials down into their constituents, angstrom, microclustered and monatomic (a.k.a. O.R.M.E.s, Orbitally Rearranged Monatomic Elements) elements are created. Microclusters are a new phase of matter: nano-particles cluster together to form an intermediate between a solid and a molecule. Angstrom particles are just several atoms of an element bound together. Monatomic elements are very strange characters indeed, discrete individual atoms of elements unconnected to other atoms, mostly in the platinum group on the periodic table, which can exhibit superconductivity and multidimensionality, that is, simultaneous existence in multiple frequencies or dimensions of space-time. They can act as antennae or "lenses" for faster-than-light scalar energy or zero point energy surrounding us to flow into the local area. This energy is very regenerative to living organisms. Therefore using simple methods, like surrounding fermentation vessels with magnets or feeding plants or ferments mineral water solutions that have been vortexed in magnetic fields, creates a much higher amount of monatomic and angstrom elements, resulting in higher production of nutrients or faster and more complete breakdown of toxins. Researcher Vinny Pinto and former Los Alamos Labs materials engineer Dr. John Milewski have experimented with water vessels surrounded by magnetite sand to create what they call "Magnetic Effect ORMUS Water," or M.E.O.W. water, which can be fed to plants, ferments and people for much improved growth.

There are yet more potential methods for neutralizing radioactivity. Russian physicist and former director of the Russian State Defense Center, Alexander Golod demonstrated many amazing properties of pyramids he has constructed. His largest, a 144-foot tall one outside of Moscow has been shown to reduce radioactivity in the atmosphere, soil and ground water. American nuclear engineer Thomas Bearden, Ph.D. applied for a provisional patent for a method to neutralize radioactivity using scalar wave interferometers, which he claims would only take about 9 minutes. Iranian nuclear engineer Mehran Keshe, Ph.D. also claims his magnetic

plasma technology will quickly neutralize radioactivity. Before he died recently, Japanese water researcher Masaru Emoto claimed he was able to neutralize radiation in water by charging crystals with human prayer and meditation and then immersing the crystals in the water. Inventor John Hutchison also claims to have built several technologies for neutralizing radioactivity and toxins in vast areas, possibly up to a 1,000 mile radius.

### **Clearing the Environment of Geoengineering and Other Pollutants**

We must also clear the land, water and atmosphere of nuclear fallout and now, geoengineering pollutants and biowarfare agents. Microbes and chelators like zeolite minerals can break down and/or remove these pollutants from the land and water. One of the discoveries Alexander Golod made with his large pyramid was that it cleared atmospheric pollution of all kinds, including particulates and nuclear fallout, from the skies for a 350 kilometer diameter. It consequently normalized the ionization of the atmosphere which in turn reduced severe weather of all kinds: wind, precipitation, lightning, freezes, droughts and floods, etc. Note that it did not disturb normal weather, it just prevented extremes. The pyramid even reportedly reduced earthquakes, apparently by releasing small tectonic shifts frequently rather than large infrequent ones, and created new water springs in the surrounding area. Because of his connections to the Russian military, Golod was able to use top secret special radar to study the energy emitted from his pyramid and discovered a large vortex of energy emanating from the pyramid tip and extending through the atmosphere into space. The vortex was somewhat like an upside down tornado of energy that acted like a vacuum cleaner, sucking pollutants into space.

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**THE VORTEX WAS  
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INTO SPACE**

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Russian astrophysicist Nikolai Kozyrev many years before had identified this type of energy and called it torsion waves, denoting their twisting or spiraling nature. Kozyrev's work was complex, and essentially he likened these spiraling waves of energy to consciousness, noting that they could alter matter and electromagnetic energy.

Nikola Tesla and Wilhelm Reich also developed technologies with similar results. Tesla's pancake coils and

spark gap generators created Dirac pulses, sharp on/off pulses of electricity that create torsion waves, a.k.a. scalar waves. Tesla could create torsion waves of different frequencies and magnitudes that could have a variety of applications, including weather modification, which is the basis for the H.A.A.R.P. (High Frequency Active Auroral Research Program) technology. Reich took a different approach, grounding bundles of metal tubes to the Earth via water in a device he called a cloudbuster. Cloudbuster technology operates somewhat like a pyramid, being a transceiver of torsion waves emanating from the Earth's center and from our Sun, whereas Tesla's devices were much more powerful electrically powered torsion wave generators. Because Reich was a psychoanalyst, not a physicist, and due to the times he was living in (1930's), he did not have a scientific vocabulary to describe his discoveries, and developed an almost magical lingua franca that to this day is dismissed by mainstream science, but often adhered to religiously by followers of his work. Many others have since utilized Reich's discoveries for clearing the atmosphere and balancing the weather, including Trevor James Constable, Karl Hans Welz, and Don Croft. Based on concepts from Reich, Welz invented a material which he called "orgonite" composed of metal particles and mineral powders embedded in a nonconducting resin or other electrical insulator. Much like a pyramid, these devices channel torsion waves from the Earth and the sun, with a variety of applications. Croft took Welz's material and developed a device he termed an "orgonite cloudbuster," which though less powerful than Reich's cloudbuster, had similar results when properly constructed.

I and others I know have worked with all of these technologies and have seen amazing results with clearing geoengineering pollutants (a.k.a. chemtrails) from the sky, in some cases sending them out into space as with Golod's pyramid. Instructions abound online for making orgonite devices (most of it not very good), and when combined with pyramid and Tesla technology they can be very effective at clearing nuclear fallout, geoengineering pollutants and the G.M. microbes sometimes present in the atmosphere. Dr. Konstantin Meyl in Germany sells a scalar wave generator that can be combined with orgonite and pyramid technology with powerful results.

Also important to note, there are many foods, herbs and supplements that can pull these toxins out of the body, or in some cases can transmute them. This is something I have many years of experience with and teach in my workshops. In the 1950's and 60's French physicist Louis Kervran performed experiments with animals and humans showing that certain elements can be converted to other elements in the body, for example, silica to calcium. See Kervran's book *Biological Transmutations*<sup>3</sup> for details, or my website *Fresh and Alive!* for my workshops and events.

### **Reverting G.M.O.'s and Radioactivity in the Body**

One very exciting developing solution to the proliferation of Genetically Modified Organisms (G.M.O.'s) and foods is the possibility that monatomic minerals,



a.k.a. O.R.M.E.s or ORMUS, when fed to G.M. organisms can revert G.M.O. D.N.A. back to its original form. It is also being discovered that G.M. organisms can revert back to their original forms on their own after several generations. Based on the work of Alexander Golod, myself and epigeneticists, I believe this is because the genetic blueprint pattern is ultimately in consciousness itself, and the D.N.A. is an O.R.M.E.s bearing superconducting antenna for the blueprint. Alik Kasumov of the Laboratoire de Physique des Solides in France and his co-workers have discovered superconductivity in the D.N.A., see the Physicsworld.com article *Superconductivity: It's in the Genes*.<sup>4</sup>

I have seen photos of G.M.O. and hybridized plants reverting back to the original heirlooms in one generation after being fed minerals high in monatomics. The sources, who shared this with me, are anonymous to avoid reprisal, but I can share with you a few products you can buy or make, that are high in O.R.M.E.s. I am not stating that these products WILL do this, but they all have the potential to do so.

#### Plant foods that are high in O.R.M.E.s bearing minerals:

- Rock powders such as azomite, basalt, rhyolite, Fertrell Jersey Green Sand or Redmond Minerals, especially when fermented in water within magnetic fields (for example, using Teruo Higa's Effective Microorganisms in a magnetite encased vessel);
- Garden Shot (see: [gardenshot.com](http://gardenshot.com));
- My Grow Minerals (see: [www.mygrowminerals.com](http://www.mygrowminerals.com));
- Homemade O.R.M.E. precipitate (see the "wet method" in the book: *ORMUS: Modern Day Alchemy*<sup>5</sup>) combined with Effective Microorganisms.

#### Supplements or ferments for plants, people and animals:

- Concentrate of liquid sea minerals, especially when vortexed in water within a magnetic field (simple method, use a "Water Vitalizer" appliance);
- ORMUS Supplements from the website *Ancient Transformational Technologies* (see: [www.ancienttek.com](http://www.ancienttek.com));
- Ferment homemade O.R.M.E. precipitate in an E.M. brew.

It's also been my observation that the foods which are best at healing radiation damage in the body are all high in O.R.M.E.s.

This is just a small sampling of solutions. For many more details, see amongst others the websites PESWiki ([peswiki.com](http://peswiki.com)), Rex Research ([rexresearch.com](http://rexresearch.com)) and Gary Vesperman ([www.padrak.com/vesperman](http://www.padrak.com/vesperman)). ■

#### Notes

1. The website of the Integrity Research Institute can be found at: <http://www.integrityresearchinstitute.org/>
2. The list of patents for the transmutation of radioactive elements can be found at: [www.radiationlinks.freshandalive.com](http://www.radiationlinks.freshandalive.com)
3. For a review of the book *Biological Transmutations* by C. Louis Kervran see: [http://www.infinite-energy.com/iemagazine/issue34/bookreview\\_bio-trans.html](http://www.infinite-energy.com/iemagazine/issue34/bookreview_bio-trans.html)
4. The article "*Superconductivity: It's in the Genes*" can be found at: <http://physicsworld.com/cws/article/news/2001/jan/12/superconductivity-its-in-the-genes>
5. For more information about the book *ORMUS: Modern Day Alchemy* see: <http://ormusbook.com/>



## KEN ROHLA

### NATURAL HEALTH EDUCATOR AND INVENTOR FROM NEW SMYRNA BEACH, FLORIDA

*Ken has been teaching classes and retreats since 1993 on rejuvenation and cellular regeneration using raw and sprouted vegetarian food, herbs, food-based natural supplements, detoxification, emotional healing, reprogramming of limiting unconscious beliefs, ancient esoteric techniques and cutting-edge science. With a background in electrical engineering, physics, and computer science, for 23 years he worked a variety of jobs in the medical industry, from the patient level to the national policy level. A cutting-edge researcher, Ken has studied with many pioneers in the natural health movement, including Gabriel Cousens, M.D.; Drs. Brian and Anna Maria Clement; David Wolfe; Dr. Robert Morse; Viktoras Kulvinskis; Brenda Cobb; and many others. In 2005, Ken became certified as a natural health educator by the Hippocrates Health Institute in West Palm Beach, Florida, and in 2006 was honored to work with Coretta Scott King, wife of the late Dr. Martin Luther King, Jr. Currently Ken's focus is developing natural solutions for new severe threats to our health, such as nuclear radiation, geoengineering pollutants, genetically modified foods and microorganisms, electromagnetic pollution, nanotechnology, biowarfare agents, depleted food, and other issues. You may see interviews with Ken on Gaiam TV, Red Ice Radio, and elsewhere on his website:*

**[www.freshandalive.com](http://www.freshandalive.com)**



# OPEN SOURCE, ONE STEP TOWARDS A BETTER TOMORROW

- RUSS GRIES -

Over the last 7 years, I have invested more time than I can count contributing to the research and development of new energy, and I have learned that the most important thing is to be open source. It is a fundamental key to successfully releasing new technology to the public. In this article I will give you reasons and examples of how open source has boosted the success in getting new technology to the public. I will also be discussing some examples of how it can help be successful to your business and show you ways to be fully open source and still keep a roof over your head as well as food on your table.

When I started down this path of energy research I found out quickly that EGO and GREED are some of the number one reasons that anything new will be held back from progression. This was a time when I found out that the only way to get new technology out to the public is to work with them and be as open as you can. I found out, that by working with people, progression was so fast I could hardly keep up with the positive feedback I was getting on the projects I was working on. This also gave me a lot of reasons to press on when things got hard. There were voices out there to help keep me motivated and full of joy to keep going with what I was doing.

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## OPEN SOURCE HELPS GIVE SECURITY, FREEDOM, ZERO LOSS OF INFORMATION AND ZERO SUPPRESSION

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For me personally there are some main reasons why I believe in open sourcing my work. Open source helps give Security, Freedom, Zero Loss of Information and Zero Suppression. It gives Security by allowing you to freely express everything you know and now you're not a "threat" to the powers that be. If you hold no secrets, why would you be a threat to anyone? Everyone will have the information needed to press on. It will give you Freedom to express your new discoveries to the

public knowing that it cannot be stolen from you. If all the information is in the public domain, there will be Zero Loss of Information. This will also keep the information from being suppressed, which has happened all too often in the past. The internet has created a place where information can be freely shared within seconds to thousands or even millions of people. Again, I believe that greed and ego have played a huge negative impact on this world as a whole.

Let us look at what open source really is and at ways that is it helpful.

### Open Source

Open Source generally refers to computer software, most of the open source information is based around software. The open source software movement arose to clarify the environment which the new copyright, licensing, domain and consumer issues created. Some examples of "Open Source" names that have been coined over time are: Open Source Hardware, Open Design, Open Innovation and Collaborative Innovation Network. I would like to focus on Open Source Hardware and Open design, these are newer and are still "under development."

### Some ways of Open Source information

- Open Source Software
- Open Source Hardware
- Open Design
- Open Innovation
  - a. Idea Competitions
  - b. Innovation Networks

### Open Source Hardware

Let us look at Open Source Hardware first. Open source hardware consists of physical artifacts of technology designed and offered in the same manner as free and open source software. Some examples of this are: Mechanical drawings, schematics, bills of materials, circuit board layouts and fabrication techniques. This is something that is newer to the open source community and is still considered under development. What I mean

by “under development” is that with software there are websites such as GitHub<sup>1</sup> where one can upload open source software and keep track of changes and updates. It is a place designed for this type of open source platform. Although there are places that host open source hardware, there is not really a central place for this to occur.

### Open Design

Another item on the list is Open Design. Open design is the development of physical products, machines and systems through the use of publicly shared design information. This process is generally facilitated through the internet and often performed without monetary compensation. Open design is a form of co-creation, where the final product is designed by the users, rather than an external stakeholder such as a private company. People apply their skills and time on projects for the common good, perhaps where funding or commercial interest is lacking or for developing countries to help spread technologies. Open design may provide a framework for developing advanced innovations and technologies that might be beyond the resource of any single company or country. Some methods use high-tech open source, but customized local solutions for sustainable development (e.g. 3D printing).

I feel that open source will speed up innovation tenfold. Let us think about how fast an idea can get around using tools such as the internet and internet based communication. When a person or company holds something as priority, they are holding back innovation. For example Elon Musk, C.E.O. of Tesla Motors, Inc.<sup>2</sup>, made an announcement in 2014, that he open sourced all their patents so that anyone can use the patented information in their products and electric cars.<sup>3</sup> I feel this is the new way of doing business. In the past, patents have been a way to protect the inventor. Nowadays, I see patents only helpful to keep the information flowing freely by open sourcing them.

### Open Innovation

Open Innovation explains this principal very well. The idea behind open innovation is that in a world of widely distributed knowledge, individuals or groups cannot afford to rely entirely on their own research, but should instead adopt and use other open innovative ideas that other individuals or groups have already open sourced. Think about all the funding that Elon Musk put into the Tesla motors patents. Now all that information and funding behind it can be used and advanced by anyone without the extra funding it would normally take to start from scratch. Other ways to advance innovation is to use some of the models of open innovation such as idea competitions and innovation networks.

- a. Idea competitions encourage completion of a project among contributors by rewarding the successful submissions. This is a very good way to reach out to the public and see what they are capable of. An example of this would be the X Prize Foundation.<sup>4</sup>

They have been doing this for over ten years. Although some of their prizes have not been open source, some of them have. Overall, one can look at their history of idea competitions and see that it pushes the limits of what is possible to change the world for the better. These idea competitions can live long past the original date for the completion. Another example of this would be the Pulse Motor Build-Off. The Pulse Motor Build-Off is something I host every year and is very open. It is mainly a way to get others interested in new technology by giving prizes to those who get off their butt and just try something! By hosting these competitions I have found out that it brings people together. It is a way for peers to boost the confidence of each other during the competitions, by helping everyone along the way. And in the end, everyone is a winner. It seems to just keep carrying everyone into these self-organizing networks. This leads me to innovation networks.

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## AND IN THE END, EVERYONE IS A WINNER

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- b. Innovation networks, similar to idea competitions, are organized leverages to network contributors in the design process by offering a reward in the form of an incentive. Along the way self-organizing networks seem to form. The most valuable and complex technologies are increasingly innovated by networks that self-organize. I have found this to be very true in my own open sourcing adventure. Networks are those linked organizations that create, acquire and integrate the diverse knowledge and skills required to invent complex technologies. This idea leads the group to function without centralized, detailed management. If the technology is important, there will be self-organizing groups to work on it. We can see this with the energy problem we have now. People come together to solve the problem at hand. I can vouch for this personally by the number of emails I get daily. People are starting to wake up and self-organizing groups are pressing the way to a better tomorrow!

### Open Source Licenses

One may ask one self: “What kind of protection do I have if I go open source?” and the answer is that there are ways to help protect yourself and your inventions. Licenses are one way. Let’s look at some licenses, but first, let us describe what these licenses are for. A license is a way to help you keep your information open and still reference where it came from or who created it. It is a way to allow others to use or contribute to the work without the original creator losing credit or some control depending on which license is chosen. We are going to look at the two broad classes of Open Source Licenses. They consist of copyleft and permissive.

Rather than creating a new license, some Open Source Hardware projects simply use an existing license. Copyleft licenses (sometimes referred to as “viral”) are those which require derivative works to be released under the same license as the original. Some common copyleft licenses are the GNU Public License (GPL) and the Creative Commons Attribution-ShareAlike License. There are other copyleft licenses that have been specifically designed for hardware. They include C.E.R.N. Open Hardware License (O.H.L.) and T.A.P.R. Open Hardware License (O.H.L.).

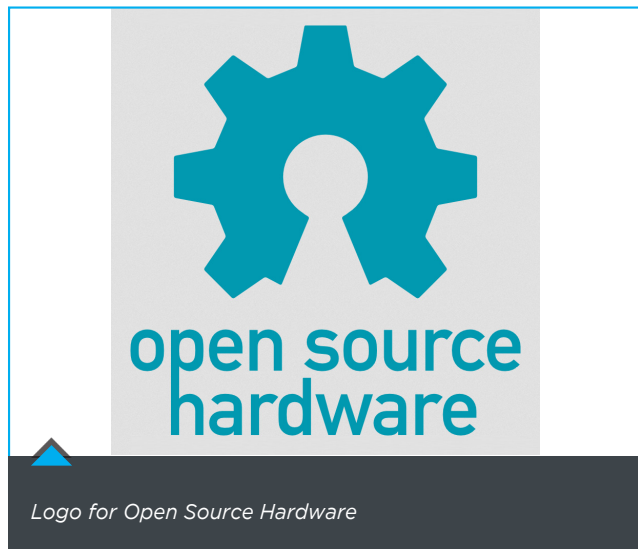
Permissive licenses are those which allow for proprietary (closed) derivatives. They include the FreeBSD License, the M.I.T. License and the Creative Commons Attribution License. Licenses that prevent commercial use are not compatible with open source.

When choosing a license, you should first decide whether or not you want to bind people into making open source derivatives of your design. If you do want to bind people, use a copyleft license, if not use a permissive license. What I am basically saying is that a copyleft license does allow others to use your information and build upon it, then release it under the same license. An example of this would be the RepRap 3D printers that have become so popular. A permissive license does not allow users to build on it and release the information. It only allows the users to use the information.

### Practices for Open Source Hardware

We have covered a lot of information so far in this article. Now let us look at what some of the best practices are for open source hardware. Some pointers I can give you are:

1. Make it clear how your hardware is licensed by providing a copy of, or at least a web link to, the license with the hardware;
2. Be clear about which parts of the hardware are open source (and which are not). Put the Open Source Hardware (O.S.H.W.) logo on your hardware;
3. Keep your source files in a (free) publicly-available source code repository like GitHub. This makes it easier for people to track their changes to your files.



It also makes it easier for them to send improvements back to you. The tools for this kind of data exchange are still pretty weak for hardware projects, but for software, they are mature.

Now, I know what you’re asking: “Does a license protect me from someone else getting a patent on my open source project?” The answer is no, there is nothing that protects you from someone else trying to patent your open source hardware work. But here’s the catch - if it’s considered “prior art”<sup>5</sup>, it cannot be patented. This is the most important key to protecting your open source projects. It is a “loophole” in this patent system.

Here are some facts to help make my point. First-to-file<sup>6</sup> does not deny the existence of prior art. Many members of the community publish their work on blogs and websites (prior art must be made public), but there is no guarantee that a patent office will find your work. In a perfect world, the patent office would not be able to award a patent if you’ve published prior art publicly. One way to get your idea into the public domain and make it “prior art” is to file a Defensive Publication. Now we are thinking outside the box! Let’s look at what a Defensive Publication is and how to use it.

### Defensive Publication

Defensive Publications<sup>7</sup> are endorsed by the U.S. Patent and Trademark Office as an intellectual property rights management tool. They are documents that provide descriptions and artwork of a product, device or method so that it enters the public domain and becomes prior art. This powerful disclosure prevents other parties from obtaining a patent on the product, device or method. It enables the original inventors to ensure that they have access to their invention by preventing others from later making patent claims on it. It also means that they do not have to shoulder the cost of patent applications. This is the best way I have found to protect yourself and still be fully open source. The Defensive Publications program is actually a component of Linux Defenders. One useful tool is that this enables non-attorneys to use a set of web-based forms to generate defensive publications. One thing to remember is that it relies on participation from the open source community. The completed Defensive Publication will be added to the IP.com database<sup>8</sup>, which is in turn used by the intellectual property attorneys and the U.S. Patent and Trademark Office to search for prior art when examining patent applications. Again, just because you invented and publicly published your work does not mean that the information will be found by the attorneys searching for prior art. But this Defensive Publication will be sent to the IP.com database, it’s almost a no brainer if you want your information to be found as prior art.

One can actually file a Defense Publication at the website *Defensive Publications*.<sup>9</sup>

Here is a quote from the above website: “We are asking the open source community to publish key innovative concepts in order to prevent patents from being



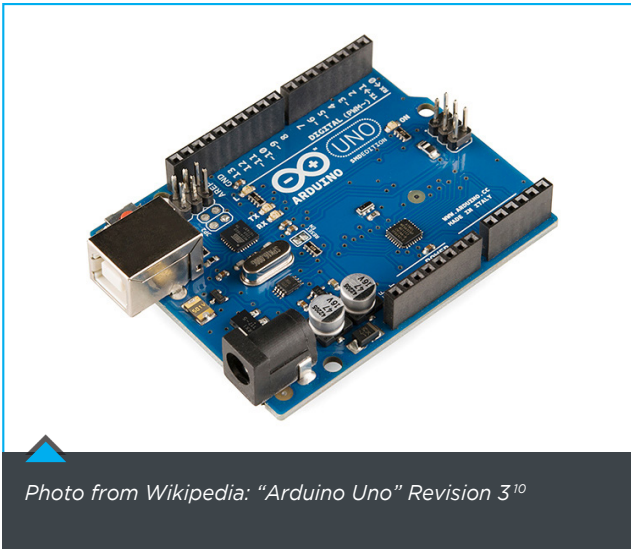


Photo from Wikipedia: "Arduino Uno" Revision 3<sup>10</sup>

granted to others later for those same ideas. These innovative concepts don't have to be fully implemented and demonstrated to work." This means unlike patents, your invention does not even need to work to be considered prior art. That, by itself, is a huge reason to use the Defensive Publication service. You can make an idea simply prior art and thus protect it. To my knowledge you can't currently do that with a patent. Defensive Publications are extremely important to keep information freely flowing.

## DEFENSIVE PUBLICATIONS ARE EXTREMELY IMPORTANT TO KEEP INFORMATION FREELY FLOWING

### A few Open Source Hardware success stories

So far we have discussed a lot about different ways of working with open source hardware. I would now like to discuss some success stories that show that open source can be done. Let us first look at the Arduino.<sup>10</sup> Arduino is an open source physical computing platform based on a simple microcontroller board, and a development environment for writing software for the board. It has become so popular you can now pick one up at your local Radio Shack. Open source from the start. Let's look at some background on how the Arduino came to be.

#### Arduino

Arduino started in 2005 as a project for students at the Interaction Design Institute Ivrea in Ivrea, Italy. A hardware thesis was contributed for a wiring design by Colombian student Hernando Barragan. After the wiring platform was complete, researchers worked to make it lighter, less expensive and available to the open source community. The school eventually closed down, so these researchers promoted the idea. The Arduino

platform was designed to provide an inexpensive and easy way for hobbyists, students and professionals to create devices that interact with their environment using sensors and actuators. Common examples for beginner hobbyists include simple robots, thermostats and motion detectors. It comes with a simple Integrated Development Environment (I.D.E.) that runs on regular personal computers and allows users to write programs for Arduino using C or C++. The basic Arduino hardware is a single-board microcontroller, intended to make the application of interactive objects or environments more accessible. The hardware consists of an open source hardware board designed around an 8-bit Atmel AVR microcontroller, or a 32-bit Atmel ARM. The current prices of Arduino boards run around €20, or \$27 and those of related "clones" as low as \$9. Hardware design information is available for those, who would like to assemble an Arduino by hand. It was estimated in mid-2011 that over 300,000 official Arduinos had been commercially produced and in 2013 that 700,000 official boards were in users' hands. It has been reported that for every legit board out there, there is a clone, that's over 1,400,000 Arduino based boards floating around out there.

The following quotes by Massimo Banzi, one of the founders of Arduino, come from the Arduino website:<sup>11</sup>

*"When we came up with Arduino, one of the things we decided very early on was that we wanted to release the hardware design files so that people could make their own versions or just make an exact copy if they couldn't find boards where they lived."*

*"I think we contributed to popularize the concept of open source hardware and we can see it from the huge amount of variations of Arduino-compatible devices being released every day."*

*"After the platform started to become popular we had the issue of figuring out a business model to sustain our work and keep innovating the project. But we also realized we needed a way for people to be guaranteed that they were buying a quality product that would replace any defective item, should problems arise."*

*"We decided that the best way was to register the trademark of the Arduino lettering and to create a logo that would make it easier to identify products sanctioned by us."*

*"We believe firmly in open source hardware and we have always systematically released any hardware design and the software needed to reproduce our products. We think this advances the whole community and provides a platform for shared innovation where the advantages are more than the drawbacks, but we also think that Trademark violations are like identity theft: the same way each one of us wants to have the right to own their name we believe we have the right to decide whoever gets to be called Arduino, everything else is right there on Github for anybody to build upon."*

This just goes to show that with the right attitude, open source can be done successfully and award you with an income.

### 3D printing

For our second example, I would like to bring up one of my favorite projects, 3D printing. The original 3D printer was called a RepRap. And we still refer to most home-made 3D printers as RepRaps, there is even a RepRap Wikipedia page<sup>12</sup>. The most interesting part about this success story is that the RepRap was being developed while the core process in 3D printing was patented. This did not stop the open source community from building these printers. In fact it made it stronger, as there was a way for users to build affordable 3D printers. Fused Deposition Modeling (F.D.M.) patents expired in 2009. With this expiration all the open source users could start selling their printers. Here is what the first RepRap looked like:

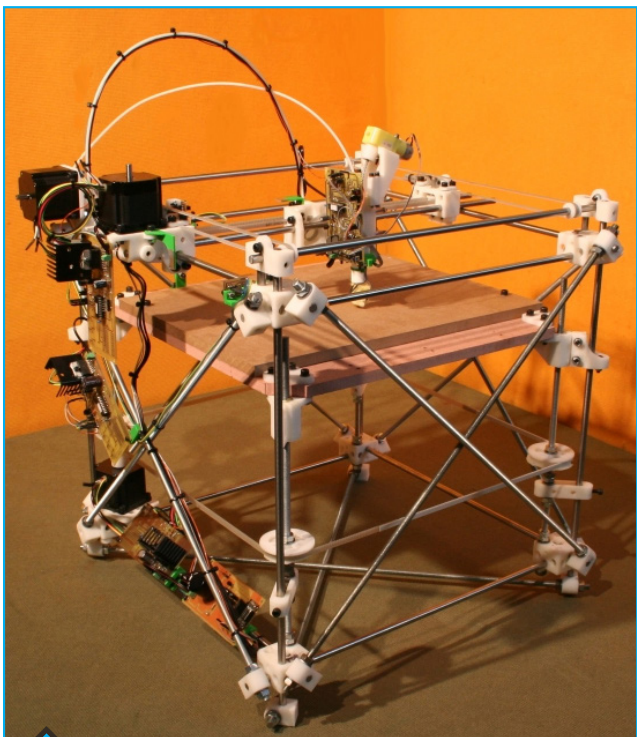


Photo from Wikipedia: Version I "Darwin" machine<sup>12</sup>

Here is a quote from the article *Why Patents Won't Kill 3D-Printing Innovation* on the website LiveScience:<sup>13</sup>

*"...there's the case of two early open-source 3D printers launched in 2006: RepRap (created by Adrian Bowyer and his team) and Fab@Home (created by Evan Malone and this article's co-author Hod Lipson). Both systems were simple, do-it-yourself affairs. And, both Fab@home and RepRap were open source, meaning that their machine blueprints were freely available on the Web where anyone could download them.*

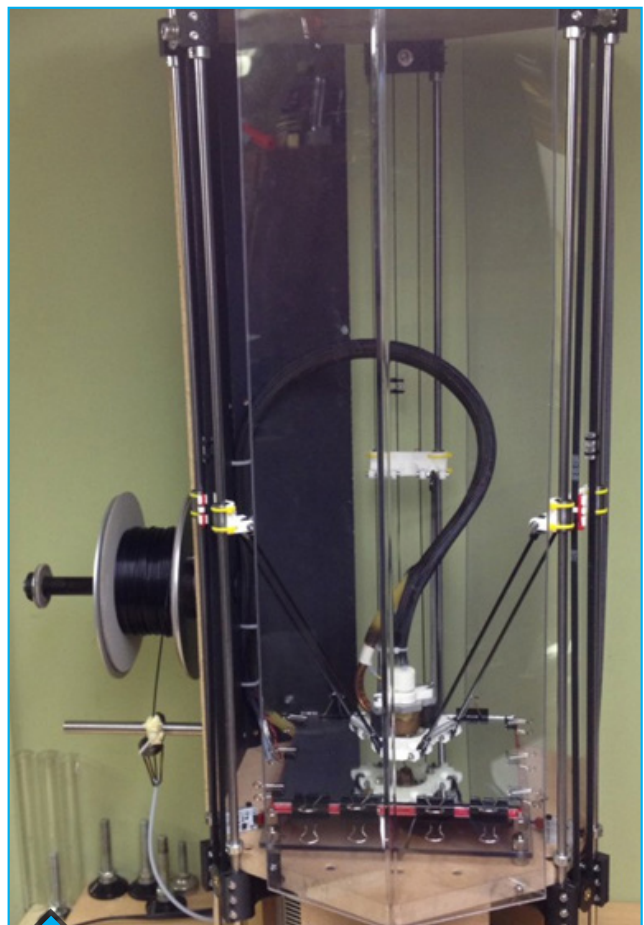
*Thousands of users downloaded these design blueprints and built their own 3D printers at home. Both projects encouraged technological innovation beyond the original blueprints. Several years later, MakerBot's early,*

*commercial 3D printer would borrow many design elements from RepRap and Fab@Home.*

*After their launch in the mid-2000s, RepRap and Fab@home thrived for years, long before FDM patents expired in 2009. The presence of blocking patents did not discourage do-it-yourselfers from creating innovative new technologies on top of the core, open-sourced machine blueprints. However, and this is the heart of a fine and critical distinction, the presence of blocking patents had a different effect: In the case of open-sourced printers, patents acted as a commercial, not technological, constraint. Users could not necessarily turn their innovations into commercial products without first understanding and skillfully navigating the patent landscape."*

The point here is, that even if something is patented it will not stop those who have the skills to make and distribute it through the community. It will thrive even if the law states that it cannot be sold because of patent infringement. As of 2014 the Selective Laser Sintering patent has expired, another key patent to 3D printing. So a lot of high resolution desktop 3D printers should be much cheaper in the future.

An interesting thing about the two successful open source examples I used, is that the 3D printer I built from scratch uses the Arduino as its control means. Here is a photo of the printer I built from scratch with the use of all open source software and hardware:



Russ Gries' replication of the Rostock Delta 3D Printer prototype<sup>14</sup>

I have to give credit to my friends Nate and Jeff who got me started in 3D printing. Jeff has printed a lot of the parts on his home made 3D printer. This is a self-replicating open source project!

I have for the past 7 years lived in the open source community and I can tell you that this is the way to a better tomorrow. One can successfully create a business based on open source by taking the correct steps to do so. Open source has proven itself to be one of the best ways to innovate and spread a product methodology to the people. Even so, I have had my challenges with open source too; there is a lot of greed and ego out there in the world that will get in the way. But at the end of the day it feels so good to say "I am open source". It gives me security, it gives me freedom, and it gives me hope for a better, more open tomorrow. ■

#### Notes

1. GitHub can be found at: <https://github.com/>
2. Tesla Motors, Inc. can be found at: <http://www.teslamotors.com/>
3. All Our Patent Are Belong To You by Elon Musk, published June 12, 2014, can be found at: <http://www.teslamotors.com/blog/all-our-patent-are-belong-you>
4. The X Prize Foundation can be found at: <http://www.xprize.org/>
5. The meaning of "prior art" according to the Wikipedia: [http://en.wikipedia.org/wiki/Prior\\_art](http://en.wikipedia.org/wiki/Prior_art)
6. The meaning of "first-to-file" according to the Wikipedia: [http://en.wikipedia.org/wiki/First\\_to\\_file\\_and\\_first\\_to\\_invent](http://en.wikipedia.org/wiki/First_to_file_and_first_to_invent)
7. The meaning of "Defensive Publication" according to the Wikipedia: [http://en.wikipedia.org/wiki/Defensive\\_publication](http://en.wikipedia.org/wiki/Defensive_publication)
8. The IP.com database can be found at: <http://ip.com/prior-art-database-publishing/>
9. The website Defensive Publications can be found at: <http://www.defensivepublications.org/>
10. Information about the Arduino can be found at: <http://en.wikipedia.org/wiki/Arduino> and: <http://www.arduino.cc/>
11. The Arduino website can be found at: <http://www.arduino.cc/>
12. The RepRap Wikipedia page can be found at: [http://en.wikipedia.org/wiki/RepRap\\_Project](http://en.wikipedia.org/wiki/RepRap_Project), more information can be found at the website RepRap.org: <http://reprap.org>
13. The article *Why Patents Won't Kill 3D-Printing Innovation (Op-Ed)* by Melba Kurman, Triple Helix Innovation and Hod Lipson, Cornell University, published July 29, 2013 can be found at: [livescience.com/38494-3d-printing-and-patent-protection.html](http://livescience.com/38494-3d-printing-and-patent-protection.html)
14. Russ Gries' replication of the Rostock Delta 3D Printer prototype can be found at: <http://rwgresearch.com/open-projects/3847-2/>

#### Other references:

- [http://www.pcworld.com/article/209891/10\\_reasons\\_open\\_source\\_is\\_good\\_for\\_business.html](http://www.pcworld.com/article/209891/10_reasons_open_source_is_good_for_business.html)  
<http://www.wired.com/2014/04/novena/>  
[http://en.wikipedia.org/wiki/3D\\_printing](http://en.wikipedia.org/wiki/3D_printing)  
<http://www.innosupport.net/index.php?id=2330>

## "DON'T PAY IT BACK, PAY IT FORWARD"

Russ Gries



### RUSS GRIES

#### OPEN SOURCE REPORTER AND RESEARCHER

*Russ researches and reports on new ideas as well as old ones. He is trying to prove what is real and what is not real in the new energy development and doing it in an open source way. Russ shares all of his work as open source and it is then considered public domain. He does not only report, but he builds and proves/disproves what he is reporting on. He has worked on projects regarding Stanley Meyer, Papp Noble Gas Engine, Vortex Based Math, Edward Leedskalnin, 3D printing and "Voltzilla" (an Electric Motorcycle built from recycled junk), just to name a few. Ninety percent of what Russ builds is from discarded "junk" from other people's or companies' trash bins.*

*Russ currently holds a position at Quantum Gravity Research (Q.G.R.) as a Research Scientist. Q.G.R. is a non-profit research lab studying 3D quasicrystal mathematics and how they relate to consciousness. Russ is actively integrating the theory Q.G.R. has developed and applying it to the energy producing devices under development. One can find more information about Russ by following the web addresses listed here:*

**RWGresearch.com**  
**Open-Source-Energy.org**  
**QuantumGravityResearch.org.**



# WHAT IS NEEDED IS AN ENERGY BREAKTHROUGH IN HUMAN BEHAVIOUR

(IT IS NOT ABOUT MONEY, IT IS ABOUT ENERGY)

- BY KEES DECKERS -

At this moment in time many humans are searching more desperately than the decades before for Breakthrough Energies. The reason though is still more out of necessity than out of wisdom. These energies are very much needed as they promise to be much more environmentally friendly, more abundant, safer and therefore much cheaper than the King C.O.N.G. energies, which have devastated our planet and kept billions of humans in very poor living conditions since the start of the Industrial Revolution.

King C.O.N.G. stands for the energy sources Coal, Oil, Nuclear and Gas (I found the abbreviation in information by Harvey Wasserman), so in short for the fossil fuel and hot nuclear energies, which not only have led to many oil and nuclear disasters and today's gas fracking caused earthquakes, killing off large ecologies of our Earth; but which also have led to a power of the 1% over the 99% by forcing the latter to accept and use only these energy sources and energies through obligatory "energy grid" dependency. An "energy grid" dependency these days more and more regulated by so-called smart meters and other technologies, which step by step try to take over the responsibility of the private use of energy of each individual human.

In this article I will not write so much about inventions and technologies, which can produce abundant, very cheap, clean and safe other energies than the King C.O.N.G. ones, but I will focus on the energy of human herself. Energy which is spilled and abused in all kinds of ways with impunity, based on a behaviour pattern deeply indoctrinated in every human from birth, through the ideas and especially the two main laws of the capitalistic economy. These two laws are: "All humans are equal, but some humans are more equal than others" and "there can be only one"; only the 1% that is.

I will also write about three humans, who more than half a century ago already pointed out how important not only energy from our environment is for our survival,

but also how important our own Human Energy is in the progress towards a civilisation of humanity, in which the goal: To live as long and as pleasurable as possible can be achieved for each and every single human. These three humans are Nikola Tesla, Pierre Teilhard de Chardin and yes, Karl Marx. All three understood that we live as energy beings in an ocean of energy, our universe. Although there is a lot to be said against some of their practical ideas, their starting point, how energy relates to the human condition, is what it is all about. All three therefore tried to find out and suggest ways of how to use energy, not only on the individual level of each and every human, but also on the level of the entirety of humanity. All three searched for an ethics for all of humanity based on energy. Finally I will write about the idea of an Unconditional Basic Income (U.B.I.), which will only truly work if it is a Worldwide Unconditional Basic Income (W.U.B.I.).

What all these ideas make clear is that it is not about money, but about energy.

## **Nikola Tesla and his Philosophy of Energy and Humanity<sup>1</sup>**

In 1900 already Nikola Tesla (1856 - 1943) pointed out how the manner in which industries use fossil fuels, like coal, kept many humans poor. In his article *The problem of Increasing Human Energy - with special references to the harnessing of the sun's energy<sup>2</sup>*, in which he wrote about his Three Ways to Increase Human Energy, he stated for instance:

*A similar inestimable advantage in the saving of energy available to man would be secured by obviating the great waste of coal which is inseparably connected with the present methods of manufacturing iron. In some countries, such as Great Britain, the hurtful effects of this squandering of fuel are beginning to be felt. The price of coal is constantly rising, and the poor are made to suffer more and more. Though we are still far from the dreaded "exhaustion of the coal-fields," philanthropy*

*commands us to invent novel methods of manufacturing iron, which will not involve such barbarous waste of this valuable material from which we derive at present most of our energy. It is our duty to coming generations to leave this store of energy intact for them, or at least not to touch it until we shall have perfected processes for burning coal more efficiently.*

This situation of poor made to suffer more and more because of constantly rising prices of energy still exists today in this so-called developed nation, and probably even much worse than in the time of Tesla, proving that a capitalistic economy does not lead to progress and prosperity or welfare for 100% of the humans, not even for half of humanity. It, in fact, does not even lead to wellness for every human being. More than once this has been researched by for example Oxfam Novib, an organisation, which pointed out last year that:

*The inequality in the world is increasing. The 85 richest humans, who together possess as much as the poorest half of the world population, in the past year saw their wealth grow with 244 billion dollar: each minute a half million dollar.<sup>3</sup>*

Most humans reading Tesla's article focus almost entirely on his inventions and ideas on how to produce as much energy as possible, from the conventional King C.O.N.G. ones to the most exotic he could think of, and on how to store, transport, distribute and use these energies. They keep believing, the entire solution to the energy problem lies only here. But in his first two ways



## EVEN IT UP

TIME TO END EXTREME INEQUALITY



Frontpage inequality report 2014 by Oxfam Novib<sup>4</sup>

Tesla talks mostly about the behaviour of humans with regard to their use and abuse of energy and what to do about it. He talks about hygiene, about the importance of clean drinking water and about vegetarianism as the most wise solution to our food problems. He also states that: *Gambling, business rush, and excitement, particularly on the exchanges, are causes of much mass reduction....*, meaning a waste of useful energy. He talks about morals, about the incredible waste of energy caused by wars and much more. And he thinks all these things through as far as possible, coming up with ideas which sometimes seem very exotic. On the issue of food for instance, he says:

*There seems to be no philosophical necessity for food. We can conceive of organized beings living without nourishment, and deriving all the energy they need for the performance of their life functions from the ambient medium. In a crystal we have the clear evidence of the existence of a formative life-principle, and though we cannot understand the life of a crystal, it is none the less a living being. There may be, besides crystals, other such individualized, material systems of beings, perhaps of gaseous constitution, or composed of substance still more tenuous. In view of this possibility,—nay, probability, we cannot apodictically deny the existence of organized beings on a planet merely because the conditions on the same are unsuitable for the existence of life as we conceive it. We cannot even, with positive assurance, assert that some of them might not be present here, in this our world, in the very midst of us, for their constitution and life-manifestation may be such that we are unable to perceive them.*



The largest known crystals on Earth

*The production of artificial food as a means for causing an increase of the human mass naturally suggests itself, but a direct attempt of this kind to provide nourishment does not appear to me rational, at least not for the present. Whether we could thrive on such food is very doubtful. We are the result of ages of continuous adaptation, and we cannot radically change without unforeseen and, in all probability, disastrous consequences. So uncertain an experiment should not be tried. By far the best way, it seems to me, to meet the ravages of the evil, would be to find ways of increasing the productivity of the soil. With this object the preservation of forests is of an importance which cannot be overestimated, and in*

*this connection, also, the utilization of water-power for purposes of electrical transmission, dispensing in many ways with the necessity of burning wood, and tending thereby to forest preservation, is to be strongly advocated. But there are limits in the improvement to be effected in this and similar ways.*

So, in just a few sentences Tesla mentions in short his energy ideas of what today is referred to amongst others as breatharianism, the consequences of artificial food, the importance of preservation of forests and the best way for more production of food, being to increase the productivity of soil. In passing he also mentions extraterrestrial life forms with maybe completely different living conditions than those of human life, going so far even as to suggest that some may even be living among us. These ideas are all thought through from the perspective of how to increase the energy reserves of humanity. Tesla keeps constantly in mind that literally everything is energy, so answers to our energy needs can simply be found in everything, however seemingly ordinary or extra-ordinary.

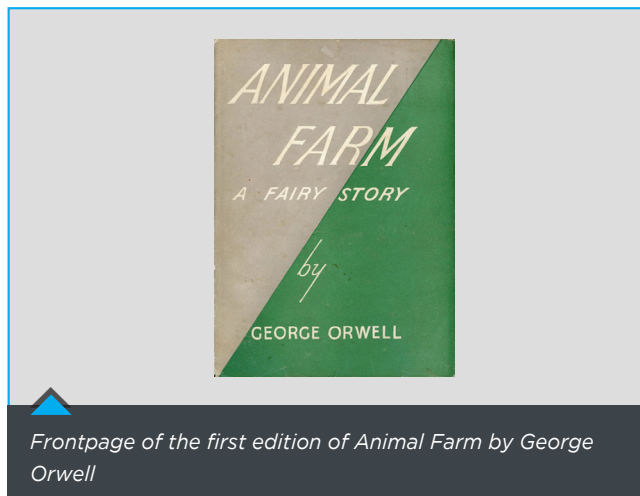
What Tesla in his article points towards, is the necessity of a worldwide human ethics with regard to energy and energy usage, to ensure that we live in the right balance with regard to our body, our environment and the interaction between these two. He also shows very clearly that the way to go forward to an energy abundant, safe and environmentally friendly society lies in the hands of every single human her- and himself.

### **Capitalism creates a profit machine society and places humans as just cogs into it**

Today still, most humans, even many of those awakened to the dire situation of humanity and planet Earth, dare not take the next necessary step. The step to support not only the ideas and innovative technologies of mainly the inventors and technology tinkerers of Small Science against those of the MainStream Big Science<sup>5</sup>, but also to change their own attitude and behaviour towards the use and abuse of the environmental energy and their own Human Energy. It is all about responsibility, or response-ability as Jeane Manning and Joel Garbon put it in their book *Breakthrough Power*<sup>6</sup>. The ability to respond yourself on the basic issues and necessities for your own life, for the lives of all other humans and for the local and total environment of planet Earth.

We are simply all equal, or put in economic terminology: We all have the same worth. Not as has been indoctrinated by capitalism in the minds of every human for hundreds of years already: All animals are equal, but some animals are more equal than others<sup>7</sup>. The rule and commandment which capitalistic manipulators have used since 1945, to prove that communism is the most dangerous form of economy possible. But what they never tell is that this rule and commandment is really the most basic rule of capitalism itself and that the story of *Animal Farm* is really about a trial by a group of animals/humans to live according to a different ethics. But

as soon as there are leaders, in this fairy story the pigs, and only 1% are needed, the rules are bent in favour of these leaders and capitalism again. Because, as we are made to believe, these humans have more responsibility than the 99%, therefore they have more worth and therefore they are entitled to be rewarded accordingly.



Frontpage of the first edition of *Animal Farm* by George Orwell

Let's keep it simple, they have the same worth as every other human, and with regard to having more response-ability, now that really is one of the many fairytale arguments of capitalism. There is not one single human, who has so much more response-ability than another and who because of that has so much more worth than another human, that he needs to be compensated to become a millionaire, a billionaire or even a trillionaire, which some expect to take place within not too many years. But this is the only way capitalists can and want to think and they force every other human to think this as well. They not only want, but also need a humanity, in which all humans are in constant competition (or better war) with each other. War on a worldwide, on an international, on a national, on a local and even on an individual level: Human, thou shalt compete! Thou shalt use all thy energy to prove continuously that thou art more important, more worthwhile and worth it than thy neighbour, no matter what the cost of energy, no matter what actions taken. This capitalistic behaviour is put on every human from birth as an obligatory duty, as if it is a fact of life. It is the indoctrination of the commandment: All animals are equal, but some animals are more equal than others, and it leads to the There can be only one-rule, known from the movies and television series *The Highlander*. Because of this, capitalism will always lead to a pyramidal divide with at least three castes, in which the lowest caste has nothing much to expect from life. For the 99% a capitalistic economy leads nowhere, except to let their Human Energy be stolen, bought, sold, used and abused the same way as every other source and means of energy. And many humans are very willing victims themselves in this selling and buying, in the hope they may become part of the middle and preferably of the highest caste.

Not only is energy literally stolen from most humans because of the, according to capitalism, on competition based necessary divide between employees/labourers and employers, but also it is stolen, by making it more



and more an expensive product, almost a luxury good - a company today is much cheaper off with machine energy than with Human Energy - and it is stolen by continuously putting more stringent limitations on how much energy individual humans may use. With just a very small bit of fantasy the situation of human life in the, because of the Industrial Revolution, so-called developed nations is turning step by step into what looks like being part of a societal machine. A profit machine society, in which the 99% are told exactly how much energy they may use to live and just keep alive on and how much they must give back, preferably for free, in the form of labour to keep this machine going.

### Pierre Teilhard de Chardin and his ideas about Human Energy

Between 1931 and 1939 Pierre Teilhard de Chardin (1881 - 1955) thought a lot about Human Energy. It resulted in the 1952 book entitled: *L'Énergie Humaine* (The Human Energy), a book already banned by Rome in 1939 according to the English Wikipedia article *Pierre Teilhard de Chardin*.<sup>8</sup> His overall theory and philosophy is that we humans did not evolve from two separate phenomena, to wit: spirit and matter, but from a "weltstoff", which according to De Chardin is Spirit-Matter. I would call this "weltstoff" simply Energy, with a capital E. From this vision he develops an ethics for humanity as a whole and for humans as individuals. In his book he states about Human Energy:

*By the energy of man I here mean the always increasing portion of cosmic energy at present undergoing the recognizable influence of the centres of human activity. In the elementary state (that is to say considered within and around an isolated human element) this 'hominized' energy appears in three forms, at first sight diverse, which it is interesting to distinguish, at least for convenience' sake: incorporated energy, controlled energy, spiritualized energy.*

- a. *Incorporated energy is that which the slow biological evolution of the earth has gradually accumulated and harmonized in our organism of flesh and nerves: the astonishing 'natural machine' of the human body.*
- b. *Controlled energy is the energy around him which man ingeniously succeeds in dominating with physical power originating from his limbs by means of 'artificial machines'.*
- c. *Spiritualized energy, lastly, is localized in the immanent zones of our free activity, and forms the stuff of our intellectual processes, affections and volitions. This energy is probably incapable of measurement, but is very real all the same, since it gains a reflective and passionate mastery of things and their relationships.*

*These three types of energy, as I said, seem at first sight to form heterogeneous categories. In reality, it appears difficult on reflexion to find a sharp boundary between them.*<sup>9</sup>

For De Chardin it is all about energy, both Human Energy and the energy in the universe, which according to him is progressing "towards higher states of thought and freedom". His question is: How should we humans act ourselves?

*The alternative presented at the opening of this section seems finally to resolve itself in favour of a continuation of the evolutionary movement within humanity. And here we are confronted with the following physical perspective. Around us and in us the energy of man, itself sustained by the energy of the universe of which it is the crown, is still pursuing its mysterious progress towards higher states of thought and freedom. Willynilly, we are totally caught up in this transformation. I repeat my question, therefore: What shall we do? Resist the current? This would be foolish and moreover impossible. Let ourselves be passively carried along by the wave? This would be cowardice.*



Image taken from the 1927 movie *Metropolis*

And anyhow, how can we remain neutral, since our essence is to act? Only one way remains open to us: to trust in the infallibility and finally beatifying value of the action in which we are involved.

In us the world's evolution towards spirit has become conscious. Our perfection, our interest, our salvation as elements can depend therefore on nothing less than pushing this evolution forward with all our strength. We may not yet understand exactly where it is taking us, but it is absurd for us to doubt that it is leading us towards some end of supreme value.<sup>10</sup>

I do not wholly agree with De Chardin that there only remains one way open to us: "(T)o trust in the infallibility and finally beatifying value of the action in which we are involved". Nor do I agree with him that especially "the energy of man", the energy of the male human, is "the crown" of the energy of the universe. This simply follows from his worship of one male god. My belief is, that we not only can keep freely developing ourselves, with a wise use of our own Human Energy and a wise use of the energy of our environment, but we simply will have to, because the future is open and not predetermined in any way whatsoever. But I do wholeheartedly agree with his thinking about Human Energy and the necessity to organise as best we can, not only as "modern men", but as humans, both female and male, the maintenance, distribution and progress of our Human Energy, as he puts it in the question:

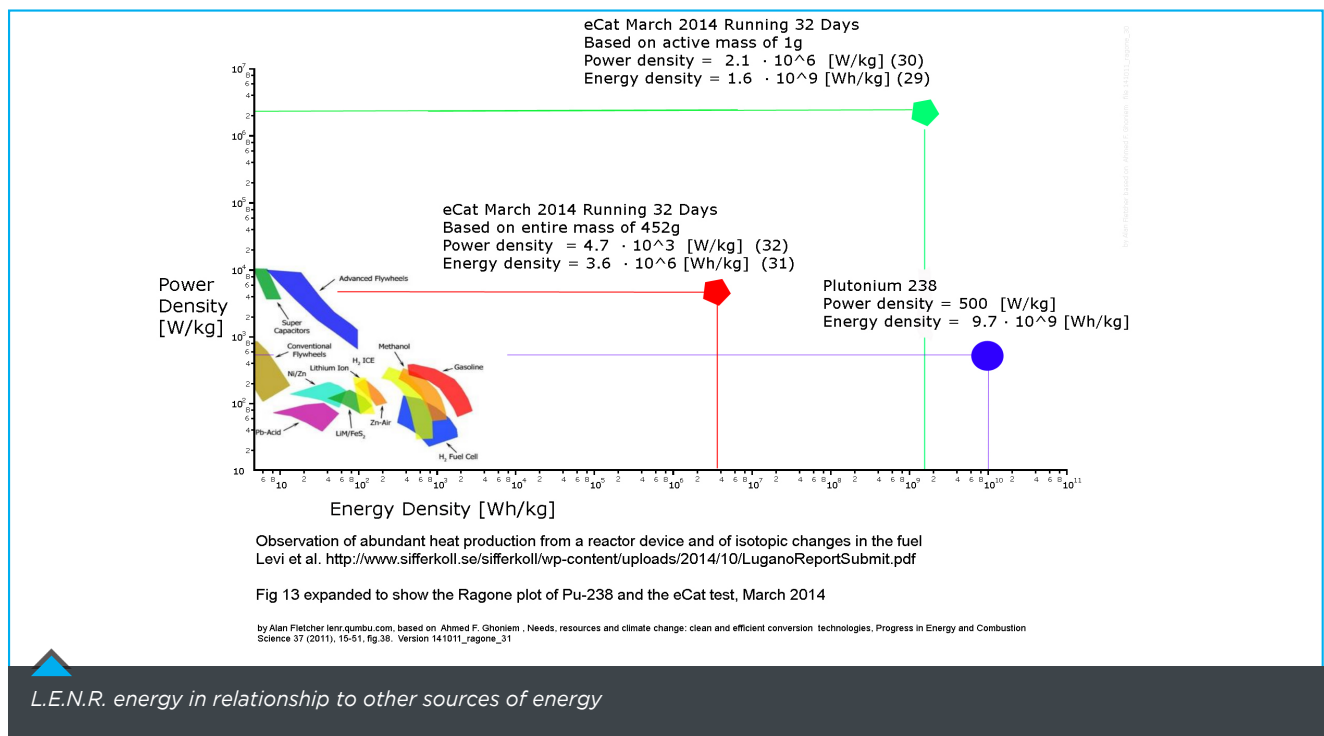
Hence it is that, for the first time since the awakening of life on earth, the fundamental problem of action has finally emerged into our human consciousness in the twentieth century. Up to now man has acted principally out of instinct, from day to day, without much knowledge of why or for whom he was working. Contemporaneously with the flowing into him of fresh powers, a new limitless and immeasurable field of

activity is opened for his ambitions and, in some sense, for his worship. For anyone who has understood (and everyone will inevitably do so soon) the position and significance of the smallest portion of thought in nature, the fundamental matter has become one of rationally assuring the progress of the world of which we form part. No longer only, as of old, for our little individuality, our little family, our little country — no longer indeed only for the whole earth — but for the salvation and success of the universe itself, how should we modern men best organize the maintenance, distribution and progress of the energy of man around us? Therein lies the whole question.<sup>11</sup>

It is exactly what Tesla states as well, though from a somewhat different viewpoint. Like Tesla, De Chardin sees and acknowledges that not only literally everything is energy, including human herself, but also that this means that the answers lie in how humans use their energy themselves. What do they use it for? How do they use it? And how much do they try to create for themselves an energy usage, that in a very small part indeed ensures "the salvation" and "success of the universe itself", starting with a human civilisation, which is a step up and away from just meaninglessly squandering endless amounts of their energy resources? The "success of humanity" depends entirely on all humans, and on how they use their own energy and the energy of their environment.

**Karl Marx and the abuse of the artificially created and maintained false "overunity" of Human Energy**

In this period of time there is a lot of talk about overunity. Overunity means that much more energy comes out of an energy production device or natural existing phenomenon, than is put into it. Because of this, such a device or phenomenon can in fact not only keep itself going, but can at the same time produce enough energy



to be utilised by other machines and processes. A very good example, which finally seems to be accepted by a part of the MainStream Science, is the process of Low Energy Nuclear Reactions (L.E.N.R.). This phenomenon and the devices, which can catalyse the reaction, actually cause overunity flows of energy, which we can use. They also produce energy, which is much safer and environmentally friendlier than the King C.O.N.G. ones. By the way, overunity has nothing to do with perpetual motion devices. This is a faulty form of reasoning, often used to deny the possibility of overunity. There is always a boundary to this very abundant production of energy, but this boundary lies very much further away than the limited ones of King C.O.N.G. So far even, that from the viewpoint of human usage, it can seem almost limitless.

But since before the Industrial Revolution already, in fact since the dawn of human existence, an artificial and false overunity of Human Energy has been created, maintained and abused. An overunity, which has been enlarged a billionfold since that revolution. A false overunity created by paying only a part of all the energy humans put into the labour process, read: Creating an energy imbalance by giving less energy back to humans than they put into creating products. Already more than 150 years ago Karl Marx (1818 - 1883) pointed to this unjust situation. This created artificial and false overunity is, what capitalism thrives on and which creates its profits. It may be clear from this, why the middle and higher caste have such an overwhelming hatred for marxism, communism and socialism. They will do anything to ensure that an economy based on equal and honest exchange of Human Energy will never be used. And this has led to many, maybe even all of our energy problems today.

## THIS CREATED ARTIFICIAL AND FALSE OVERUNITY IS, WHAT CAPITALISM THRIVES ON AND WHICH CREATES ITS PROFITS

Some information from the Wikipedia: *(Marx's) philosophy was original in its emphasis on the creativity of human labour and behaviour in general. Marx "turns Hegel around" by seeing human activity as the motor of history, and not vice versa.*

*According to Marx Alienation (Entfremdung or Entäuberung) emerges, when the product of labour is not one's own, in economic terms: labour is sold in capitalism as a commodity, after which the product is expropriated by the capitalist, who cashes the **added value** (emphasis by me) as profit or reinvests it. Such labour no longer gives satisfaction, no idea of control over matter. The Alienation expresses itself in the worshipping of a*

*self-created power outside of humans, be it in the form of worship (as with Feuerbach; the "opium of the people") or as commodity fetishism.*

*In later years Marx would choose for more precise and politically more effective terms like "exploitation".<sup>12</sup>*

*(F)rom Capital Vol. 2:*

*"Apologetic economists... say:... [the worker's] labour-power, then, represents his capital in commodity-form, which yields him a continuous revenue. Labour-power is indeed his property (ever self-renewing, reproductive), not his capital. It is the only commodity which he can and must sell continually in order to live, and which acts as capital (variable) (emphasis by me) only in the hands of the buyer, the capitalist. The fact that a man is continually compelled to sell his labour-power, i.e., himself, to another man proves, according to those economists, that he is a capitalist, because he constantly has "commodities" (himself) for sale. In that sense a slave is also a capitalist, although he is sold by another once and for all as a commodity; for it is in the nature of this commodity, a labouring slave, that its buyer does not only make it work anew every day, but also provides it with the means of subsistence that enable it to work ever anew." - Marx, Capital Vol. 2, Chapter 20 section 10"*

*The distinction Marx introduces between labour and labour-power was intended to solve a problem which David Ricardo failed to solve - the problem of explaining how **surplus value** (emphasis by me) could arise out of the exchange between capital and labour.<sup>13</sup>*

Added value or surplus value, in energy terms simply a form of created false overunity, is based almost entirely on the energy humans put into their labour, which is simply not returned with the same amount of energy. Depending on the oligarchical society the 99% lives in, from dictatorships and zero-tolerance societies to so-called "gedoog-" or tolerance democracies, this amount of falsely created overunity differs, is variable according to the whims and necessities of the capitalist. And it also differs on basis of the situation of failure the capitalistic economy finds itself in. The larger the failure, the less energy the 99% gets back, while being forced to put their Human Energy into keeping this economy going, by for instance pushing as many humans as possible into so-called unpaid "obligatory volunteer" work or simply banning them from it.

### **It should not be "live long and prosper", it should be "live long and pleasurable"**

Can we put an amount on how much energy a human needs for every day of his life, to ensure he can live as long and as pleasurable life as possible? This is the question, we have to answer, to come to a worldwide or planetary ethics, in which every human is really being treated equal to every other human. We are trying to do this, but mostly again from a capitalistic and not really positive standpoint and way of reasoning. Since a long time it is figured out what the mean Carbon Footprint<sup>14</sup> and the mean Ecological Footprint of each individual



human are approximately. From the English Wikipedia:

*The ecological footprint is a measure of human demand on the Earth's ecosystems. It is a standardized measure of demand for natural capital that may be contrasted with the planet's ecological capacity to regenerate. It represents the amount of biologically productive land and sea area necessary to supply the resources a human population consumes, and to assimilate associated waste. Using this assessment, it is possible to estimate how much of the Earth (or how many planet Earths) it would take to support humanity if everybody followed a given lifestyle.<sup>15</sup>*

All this should be read with energy in mind and on a worldwide scale, not the scale of the own nation. This last leads very easily not only to favouritism of the own nation, but also to reasoning such as what is known as the *Netherlands Fallacy*<sup>16</sup>:

*The Netherlands fallacy refers to an error in assuming that the environmental impacts of the Netherlands and other rich nations are contained within their national borders.*

*Ecologists since the late 20th century have analyzed the ecological sink status and sink capacities of poor nations. As polluting industries migrate from rich to poor nations, the national ecological footprint of rich nations shrinks, whereas the international ecological footprint may increase or also decrease. The nature of the fallacy is to ignore increasing environmental damage in many developing nations and in international waters attributable to the imported goods or changes in the economy of such nations directly due to developed nations.*

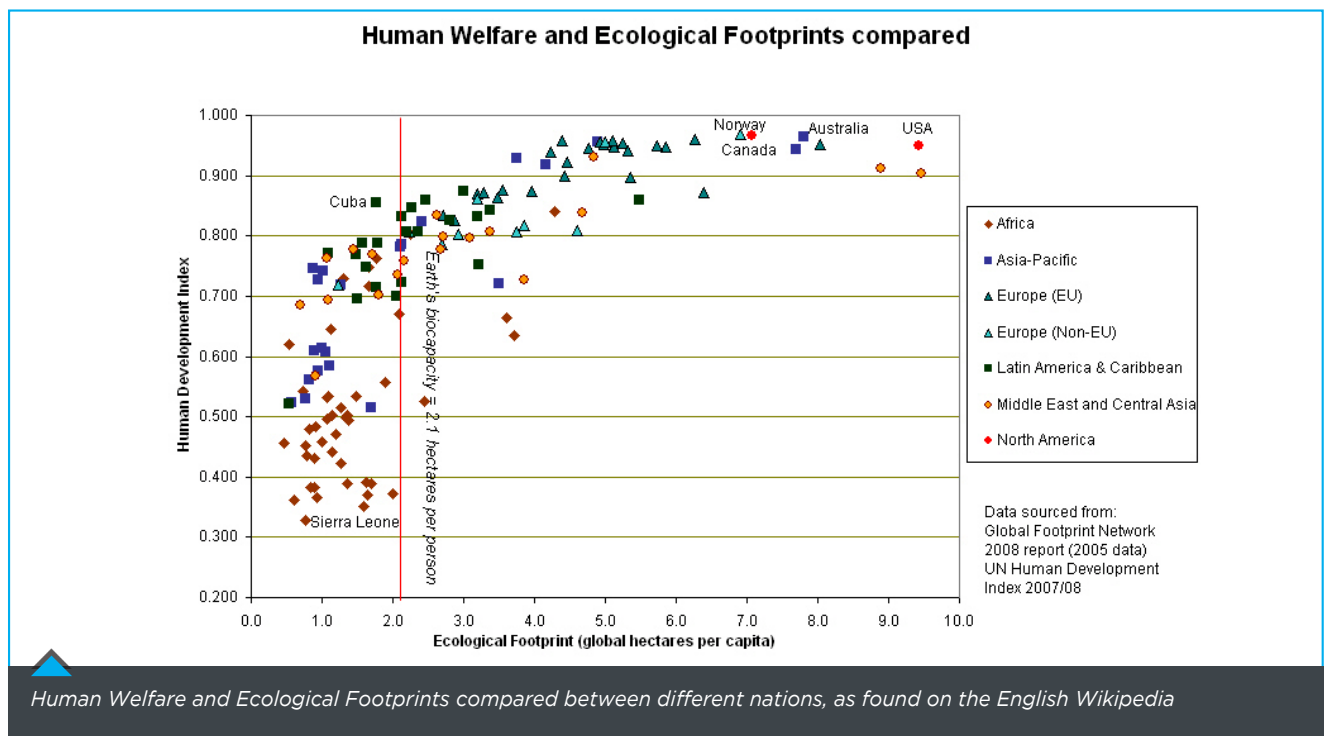
*Such an approach may lead to incorrect assertions such as the environmental impact of a particular developed*

*country is reducing, when a holistic, international approach suggests the opposite. This may in turn support over-optimistic predictions toward the improvement of global environmental conditions.*

Both the carbon and the ecological footprint, though, only talk about and look at the consequences of humanity on its environment. What we also need to look at is human himself. What are the consequences of too little energy to live on? What are the consequences of too much energy to live on? And what is the minimally necessary amount of energy for each and every human to live an as long and as pleasurable life as possible? How much energy does a human need daily to reach and maintain that goal?

It can be stated that the minimal amount of energy needed, is the amount necessary to ensure the General Daily Necessities of one human. These General Daily Necessities should not be based on national boundaries, but should be exactly the same for each and every human, wherever he or she lives on our planet Earth. They include: Healthy food, healthy drinking water, safe housing, education, health care, work and free time (both so humans can develop themselves in the way they want to). The best way to achieve this, is through a Worldwide Unconditional Basic Income (W.U.B.I.). An income for each human from birth till death, that ensures the minimal energy requirements for each human to live an as long and as pleasurable life as possible, which should be the first goal and main objective of a planetary ethics. It is time the famous and very indoctrinating farewell greeting by ExtraTerrestrial Spock, from the television series Star Trek is changed from "live long and prosper" to "live long and pleasurable".

It has been proven by more than one experiment already, in for instance Canada and India, that an unconditional basic income leads to much less energy being wasted



on worrying how to make ends meet, to a lot less work related stress and diseases caused by this, to a better school attendance, to less criminality and so on. With that, it leads also to a lot less energy needed for measures to combat crime and for health care. By taking away the pressures of constantly being obligated to compete with other humans, from “business is business”-nonsense to all-out wars, huge amounts of energy are saved. Energy which in part can be used for further research in and solving of the remaining problems.

### In conclusion

In this article I have used some ideas of three humans with regard to energy and especially with regard to Human Energy and the way humans use it and could use it. Tesla wrote about it mostly from the viewpoint of science. De Chardin wrote from the viewpoint of science as well as from a deep belief in the worship of the christian one-male-god. And Karl Marx thought about it mostly from an economical and political orientated viewpoint. You don't have to agree with a lot of the more practical ideas of Nikola Tesla, Pierre Teilhard de Chardin and Karl Marx, I don't either, but their overall ideas and philosophies are not only basically the same, they are also

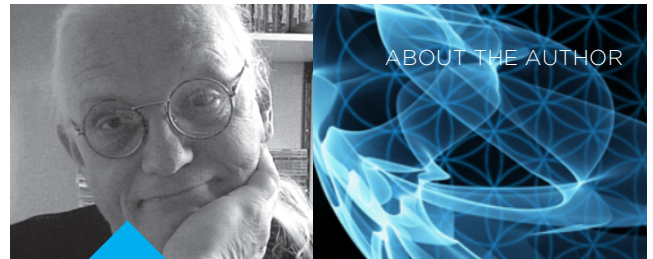
basically more sound, more safe and more human and environmentally friendly than those of capitalism.

Apart from their belief systems Marx, Tesla and De Chardin all say the same thing. If we do not start to use our energy wisely on an individual, a local, a national, an international and a worldwide level, we will constantly keep wasting incredible amounts of our energy resources, instead of actually using it for the progress of humanity. We can all do something about this. It only needs a breakthrough in how we use our own Human Energy. It only needs an energy breakthrough in our behaviour. A breakthrough which acknowledges the response-ability of every human. An ability which has been proven time and again by for instance the tinkers and inventors of so-called Small Science. We need an energy breakthrough in Human Energy, which not only starts supporting these tinkers and inventors, but each and every human on all levels of life. This starts with the realisation that it is not about money, but all the time only about energy. The energy of our environment and the energy of ourselves, our own Human Energy. ■

## IT ONLY NEEDS AN ENERGY BREAKTHROUGH IN OUR BEHAVIOUR

### Notes

1. See the article *Increasing Human Energy - Tesla's Philosophy of Energy and Humanity* in Pulse Magazine, issue no. 2, Spring 2014
2. The article *The problem of increasing Human Energy – with special references to the harnessing of the sun's energy* by Nikola Tesla, Century Illustrated Magazine, June 1900 can be found at: <http://www.tfcbooks.com/tesla/1900-06-00.htm>.
3. Dutch article *Ongelijkheid is slecht voor economische groei* (Inequality is bad for economic growth) on the website of OXFAM Novib: [http://www.oxfamnovib.nl/Ongelijkheid-is-slecht-voor-economische-groei.html?utm\\_source=nieuwsbrief&utm\\_medium=email&utm\\_campaign=fairtaxnovember#sthash.JU7Ezxl.dpuf](http://www.oxfamnovib.nl/Ongelijkheid-is-slecht-voor-economische-groei.html?utm_source=nieuwsbrief&utm_medium=email&utm_campaign=fairtaxnovember#sthash.JU7Ezxl.dpuf)
4. The English report entitled *Even it up, Time to end extreme inequality* can be found as an P.D.F. at: <http://www.oxfamnovib.nl/Redactie/Downloads/Rapporten/cr-even-it-up-extreme-inequality-301014-en.reviewed.pdf>
5. You can find the article *Big Science vs Small Science* by AlpCns on page 30
6. Page 227 of the book *Breakthrough Power - How quantum-leap new energy inventions can transform our world* by Jeane Manning and Joel Garbon, second printing May 2001, printed in Michigan, U.S.A., by Malloy, I.S.B.N.: 978-0-9810543-0-8
7. The most well-known quote from the book *Animal Farm: A Fairy Story* by George Orwell
8. English Wikipedia article *Pierre Teilhard de Chardin*: [http://en.wikipedia.org/wiki/Pierre\\_Teilhard\\_de\\_Chardin](http://en.wikipedia.org/wiki/Pierre_Teilhard_de_Chardin)
9. From page 115 of the book *Human Energy*, P.D.F. at: [https://ia600607.us.archive.org/23/items/HumanEnergy/Human\\_Energy\\_text.pdf](https://ia600607.us.archive.org/23/items/HumanEnergy/Human_Energy_text.pdf)
10. Ibid page 123-124
11. Ibid page 124-125
12. Dutch Wikipedia article *Karl Marx*: [http://nl.wikipedia.org/wiki/Karl\\_Marx](http://nl.wikipedia.org/wiki/Karl_Marx)
13. English Wikipedia article *Karl Marx*: [http://en.wikipedia.org/wiki/Labour\\_power](http://en.wikipedia.org/wiki/Labour_power)
14. English Wikipedia article *Carbon footprint*: [http://en.wikipedia.org/wiki/Carbon\\_footprint](http://en.wikipedia.org/wiki/Carbon_footprint)
15. English Wikipedia article *Ecological footprint*: [http://en.wikipedia.org/wiki/Ecological\\_footprint](http://en.wikipedia.org/wiki/Ecological_footprint)
16. English Wikipedia article *Netherlands fallacy*: [http://en.wikipedia.org/wiki/Netherlands\\_fallacy](http://en.wikipedia.org/wiki/Netherlands_fallacy)



ABOUT THE AUTHOR

## KEES DECKERS

### FREELANCE WRITER, LIVING IN THE NETHERLANDS

*Kees Deckers is interested in many subjects, but mainly in the subjects of “energy” and “globalisation on the basis of the principles of proportionality and equality, in which all human beings and nature develop themselves together on a planetary scale”. He has his own website:*

[www.worldwidebeingfreewebsite.com](http://www.worldwidebeingfreewebsite.com)

# JUST A MOMENT

- MORGAN/MIRJAM JANSE -

Dear energy consumers! How are you? Enjoying the shift? Quite intense times, right! And still the question remains ... what about free energy? Even now scientists proved the existence of unlimited amounts of energy being stored in matter...how do we get it out and put it to use for everyone? How come we are not living in the Promised Land yet?

Isn't it funny to realise there is no shortage of energy and still you live in a world reigned by power and greed. No, it's a sour and austere situation to be in...

Are the powers that be in need of controlling and restraining free will, the same powers that counteract the research into free energy and the development of the means to apply free energy? If so, where does that leave you? Those who speak up and voice their experiences as scientist, healer, drone pilot or abductee are often silenced and their statements drift like patches of fog on the internet.

Fighting the powers that be with the same means that gets them to run the show is doomed to fail, we dare to state.

Let's step back a bit. The energy we observe on earth is labelled positive or negative. It has to be opposites to create a state of imbalance. The state of imbalance in turn creates a pull or a push and consequently a flow from positive towards negative and the other way round. This pushing and pulling creates a flow with a certain direction and a certain frequency. This flow can be called creation. It creates light and dense matter, it generates sensations and feelings, it inspires, allows growth and decline, and it stops one situation to create another.

In short the flow of energy keeps any given situation in a constant state of change. We live in a world of constant change inside a vehicle, a human body that consists of flowing energies as well. How amazing is that!

Can it be that those in need of power and control attempt to immobilize this flow. Hm...

Guess what, accepting everything is in a continuous state of flow is your way out! Not only in a scientific way, in every way. There has never been this abundant presence of inspiration in the cosmos. It means there has never been such a stimulating sting to become aware of the actual state things are in. You can now step into any given situation and at the same time perceive that situation in a far more profound way than ever before!

You can be the participant in that situation and be the observer becoming aware of all the frequencies involved. This implicates an instant awareness of the

connectedness of everything and a simultaneous analysis of the particulars of energies involved. Thanks to the effort of those who woke up in 2012! So get your feet on the ground, your head in the air, breath and open your senses.

The shift is just that. You have entered a state of awareness that accepts higher frequencies into the auric field. How? By allowing it. Every cell of your body now knows by divine inspiration how to sense and recognize these higher frequencies. It is not something you do, it is being done.

By affecting your physical body, your emotional, spiritual and etheric body your weaknesses and traumas on every level will pop up with a speed that knocks your socks off. Welcome it! Embrace the pain, the letdown, the grief. Love it and transform it. And then relax.

By internalizing the higher frequencies, sense and observe the process of internalization, you become the participating observer you were meant to be. You will get beyond the love and light phase, through doors of perception into the field of universal awareness. Alongside love and light there will be an inner knowing of how to connect heaven and earth. You are back in the driver's seat.

The energy stored in every cell and most of all in every non-space outside time space will then flow by intent. Awareness of the connectedness of all, means there can be no abuse of any kind. Energy will go where needed.

This world is in a wonderful state of perpetual motion. ■



ABOUT THE AUTHOR

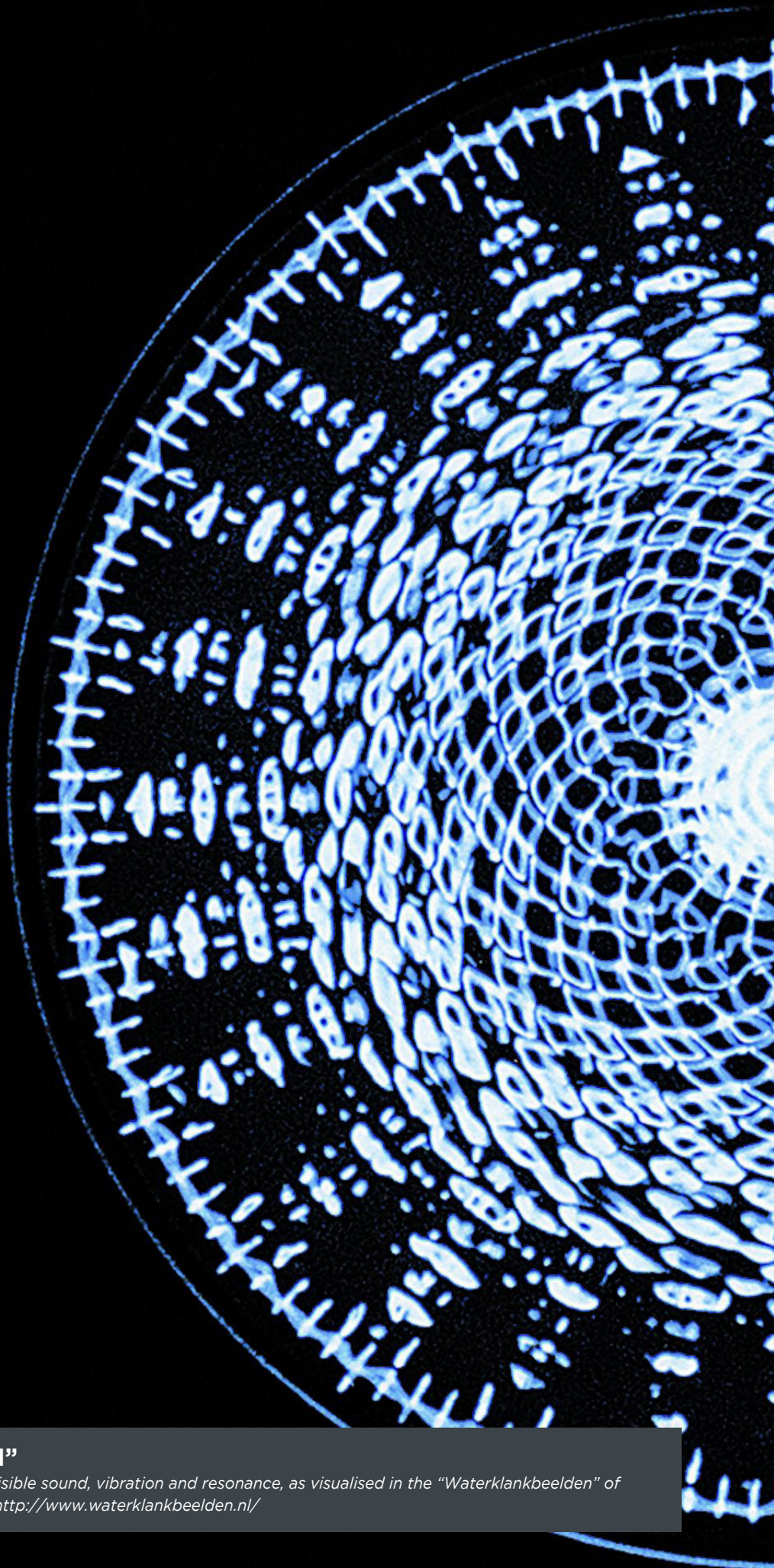
MORGAN/MIRJAM JANSE

**HEALER, CLAIRVOYANT, VISUAL  
ARTIST, AUTHOR**

*Lives and works in Amsterdam. Morgan is the name of Mirjam when she channels information. Her website can be found at:*

[www.mirjamjanse.nl](http://www.mirjamjanse.nl)

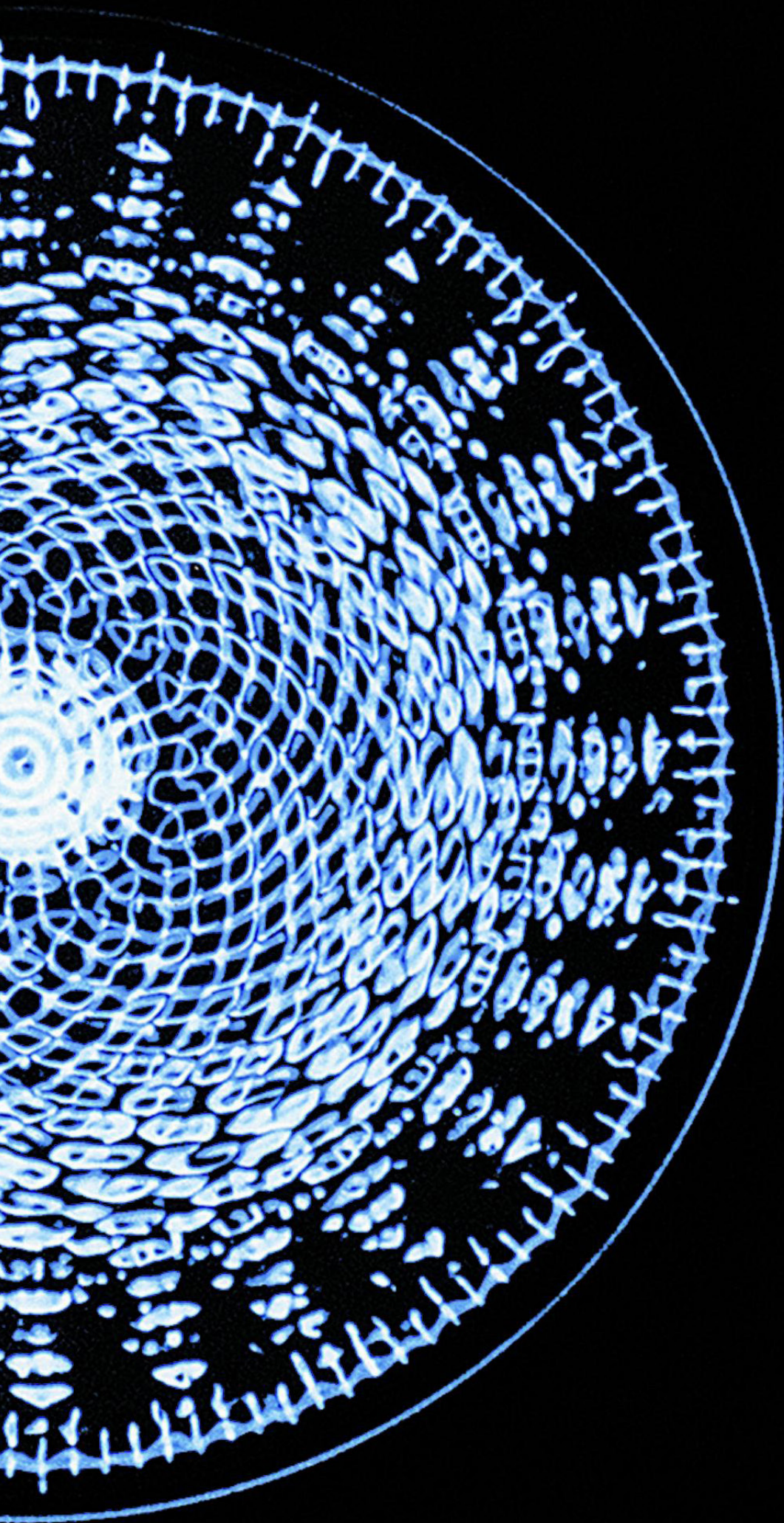




### “WATERKLANKBEELDEN”

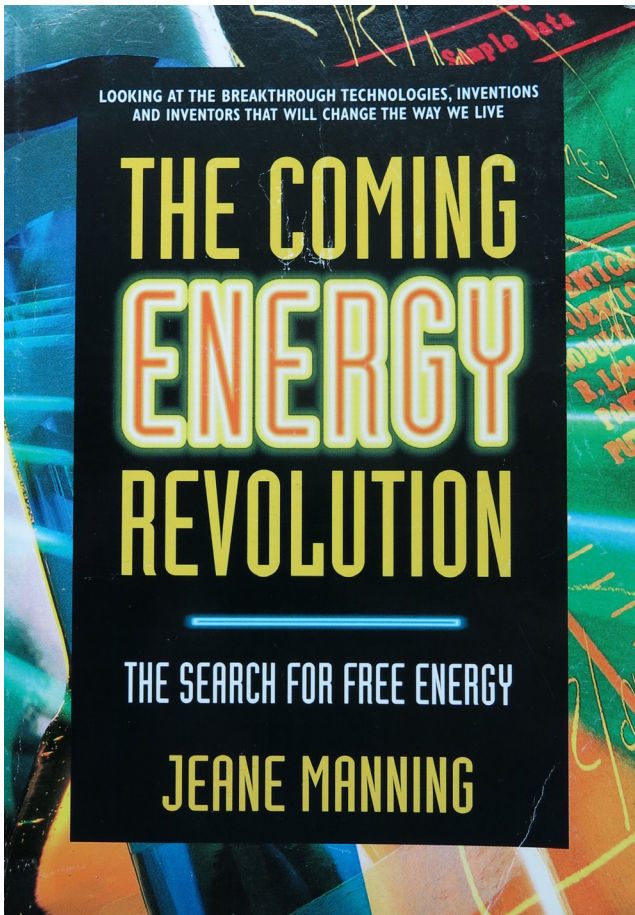
*Cymatics, and the wonderful world of visible sound, vibration and resonance, as visualised in the “Waterklankbeelden” of Robert Boerman. See also his website: <http://www.waterklankbeelden.nl/>*







# THE COMING ENERGY REVOLUTION: THE SEARCH FOR FREE ENERGY



In 1996 the book *The Coming Energy Revolution: The Search for Free Energy* saw the light. It was translated into German with the title *Freie Energie - Die Revolution des 21. Jahrhunderts* in 1997, followed by a second printing in 1998 and in 1997 it was also published in French as *Énergie Libre et Technologies*.

With a foreword by Brian O'Leary, Ph.D. physicist and former astronaut, Jeane Manning tells in this book about a new and exciting revolution that is coming. It will dramatically change our landscape, our environment, our economy, and our lives. And it will provide each and every one of us with a truly unique sense of independence. It will mark the end of oil-influenced politics, and the beginning of a bright new millennium - a time in which we all will have our own unlimited sources of nonpolluting energy.

In *The Coming Energy Revolution* Manning introduces

us to some of the inventors, both past and present, who have insisted that we are surrounded by a sea of energy that we can tap, once we have learned nature's secrets. Conventional science says that space is cold and still, and that what energy does exist cannot be put to useful work. The New Energy innovators say that conventional science is wrong, and that New Energy research is being suppressed by a combination of scientific inertia and corporate self-interest. But the suppression cannot last, as this book shows - there are simply too many inventors who are close to New Energy breakthroughs.

The book also examines technologies on which these inventors are working. Like magnets that can redirect the energy of space. Like a gentler form of nuclear energy that can take place on a table top. And like a hydrogen, a clean, abundant fuel that can be produced wherever needed. And there are other forms of New Energy. The *Coming Energy Revolution* looks at them all, and at the kinds of changes that will be needed to overcome the roadblocks between our Old Energy present and our New Energy future.

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## THE COMING ENERGY REVOLUTION LOOKS AT HOW TO OVERCOME THE ROADBLOCKS BETWEEN OUR OLD ENERGY PRESENT AND OUR NEW ENERGY FUTURE

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In the book Manning looks at the pitfalls and possibilities of a changeover to New Energy. She looks at the forces of opposition, and how they may be overcome. She looks at what a transition period may look like. At the implications of New Energy, like the costs of the changeover and the logical move towards a New Energy economy. She points out that the power for such a changeover is in our own hands and she gives suggestions on how to achieve it. She looks at what will be required of us "to move toward a life after oil". And she looks at what our societies may look like after the transition:



## The Implications of New Energy

*What would a New Energy world look like? Think of the possibilities: Instead of fighting oil wars or financially supporting nuclear power plants, governments convert the plants to run on non-polluting energy technologies and carry out large-scale cleanup projects. But most power is generated by privately owned devices, varying in size from a backyard generator to a plant big enough to light a city.*

*Oceans, rivers, and forests are freed from the threat of further contamination by radioactive waste, oil spills, or acid rain.*

*On highways and city streets, traffic hums along quietly without the roar of internal combustion engines. Even downtown, the breeze smells fresh and pure. Alongside the freeway, joggers can breathe in lung-fulls of sparkling clean air.*

*As fewer pollutants spew out of power-plant smokestacks, soils everywhere are cleansed and restored to health. This restoration is helped by the lack of heavy-metal fallout from gas and diesel engine exhaust. As a result, fruits, nuts, and vegetables grow any-where, from greenbelts to inner-city backyards. Anyone with a rooftop can build a small greenhouse, heated in winter by fuel-less devices.*

*Jet aircraft are converted to fly on water fuel with a technology that at the same time, breaks up the existing chemical oxides that now contaminate the air. Thus, aircraft renew ozone in the upper atmosphere instead of devouring it. This, in turn, reduces a host of problems, ranging from skin cancer among people to die-off among plants.*

*A great number of constructive jobs emerge from*

*a combination of abundant, low-cost energy and a gradual changeover to technologies that are in harmony with nature.*

*The increased vitality of people who breathe oxygen-rich air, drink unpolluted water, and eat healthy food can result in an upward-spiraling surge of hope, creativity, and determination to solve humanity's problems.*

What does New Energy mean? According to Manning it means:

*Freedom from slavery to the narrow worldview of materialistic science. Freedom from the deeply grooved path of outmoded thinking. Freedom to find a way of tapping into that background energy out of which everything is created.*

*Will it happen? We decide.*

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## WILL THE ENERGY REVOLUTION HAPPEN? WE DECIDE

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For a small inside look at the book, see page 46 which tells the story of Moray B. King and zero-point energy. Added to it, is an update on what King is working on today. And on page 33 You can find King's advice on How to deal with Career Skeptics.

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## The Coming Energy Revolution: The Search for Free Energy

**Jeane Manning**

**Publisher: Avery (April 1996)**

**Languages: English, German, French**

**Number of Pages: 230**

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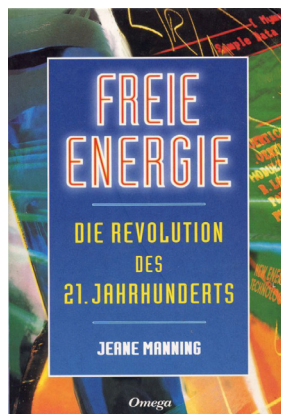
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## Freie Energie - Die Revolution des 21. Jahrhunderts

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**(first edition 1997,**  
**second edition 1998**  
**(still in print)**

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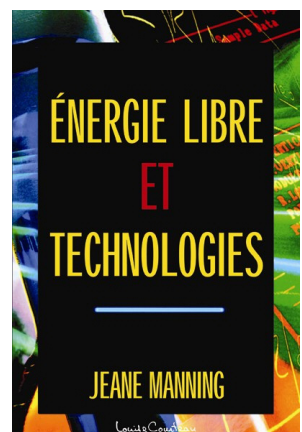
## Énergie Libre et Technologies

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# BIG SCIENCE VERSUS SMALL SCIENCE

## (STANDING ON THE SHOULDERS OF GIANTS)<sup>1</sup>

- ALPCNS -

Often attributed to Sir Isaac Newton, the great physicist and mathematician, usage of the term “standing on the shoulders of giants” - when referring to scientific advances - can actually be traced back to many centuries prior; perhaps even the 12th century and (far) earlier Greek mythology.

It is good to realize that there isn't (and shouldn't be) any difference between “Big Science” and “Small Science”, as long as proper scientific method is followed. Scientific discoveries, copious high-quality data and documentation can these days be produced by both. The latter, the “Small Science”, often done by “amateurs”, is sometimes more than somewhat frowned and looked down upon. That is a great folly, as “amateurs” often have accomplished much - at least on par with and sometimes even surpassing the “Big Science” professionals.

In many ways, science itself has its roots in the achievements of amateur scientists of centuries past. Although they often lacked formal scientific training, they accomplished much: They discovered and deciphered the basic laws of physics, and principles of chemistry, for example. They invented, designed and perfected useful instruments. And they discovered, documented, sketched, and painted planets, comets, fossils, and species - to name just a few things.

### Haughty

Although we rightfully should have massive respect and no doubt owe a great debt of gratitude for the accomplishments and advancement of “Big Science”, it is this haughty attitude of the latter for “Small Science” that often keeps irritating. And that attitude is certainly not something new. One could be forgiven for sometimes getting the distinct impression that some academics entertain the foolish idea that everything there is to know has already been discovered, documented, and verified - and the rest is rabid nonsense from “tinkerers” - especially when it doesn't support their view. Which is, of course, absurd and completely unscientific. Oh yes, there is plenty absolute nonsense and completely unscientific cult-like idiocy, some of it even peddled as “science” or “suppressed knowledge”. I can

fully imagine that reputed scientists do not want to have anything to do with such nonsense, and “hide” in their Ivory Tower. But science is not about Ivory Towers from which laws, cast in stone, are proclaimed. Real science - the real science that is to be admired, generously funded and stimulated at every opportunity - is about curiosity; that rather special human quality that drives and stimulates research, exploration, discovery, and ultimately, genuine progress.

Having said all that, we shouldn't forget a few facts. All too often “the end to amateur science” has been proclaimed by even leading scientific journals and practitioners. “Modern science can no longer be done by gifted amateurs” is a statement far too often heard. On occasion this is accompanied by a mental picture of a well-meaning tinkerer who, unbeknownst only to himself, is re-inventing the wheel using rather primitive tools, magnifying glasses, copper wires, overheating rheostats and jars filled with suspect aqueous solutions, or, as is especially popular in motion pictures, preserved odd creatures and specimens.

### Yes, Small Science can be Big Science

It is true that modern science uses considerably more sophisticated methods and instruments than in the past. But then again, so do the amateurs. If they can not afford or find the newest scientific instruments, many design and subsequently build these instruments themselves. Or buy them on the surplus market, Ebay, and elsewhere. Sometimes the capabilities of the homebrew instruments rival or even exceed those of their professional counterparts.

Indeed, to many the term amateur can have a pejorative ring. I just love what some say about amateurs: “But in science it (the word “amateur”) retains the meaning of its French root amour, love, for amateurs do science because it's what they love to do.”

### Many contributions to science

The fact is that without remuneration or reward, enthusiastic amateurs survey birds, tag butterflies, measure sunlight, and study transient solar eclipse phenomena. Others count sunspots, discover comets, monitor

variable stars, and invent new or perfect existing instruments.

Many amateurs have contributed observations and data that have been incorporated into papers and books. Indeed, increasing numbers are accepted as colleagues by their professional counterparts. Untold numbers of amateurs devote their spare time to making observations, measurements, sketches, photographs, and reports without receiving direct recognition. They come from all walks of life: some are retired, others are taxi drivers, photographers, teachers, engineers, military, civil servants, pilots or missionaries, the latter group having an especially impressive record of achievement, odd as that may sound to some. There are student scientists, too - a surprising number does original work and not just the required learning assignments. An equally amazing number even make genuine discoveries, some go on to eventually become Nobel Laureates.

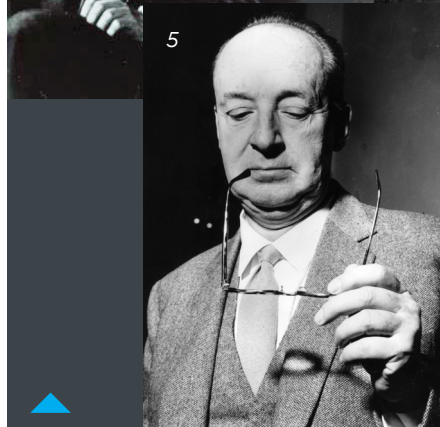
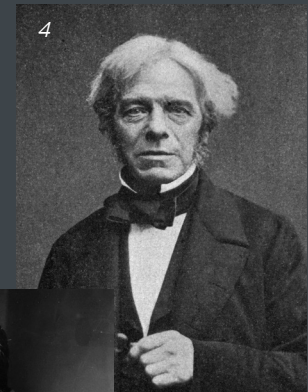
Sometimes amateur or student scientists are told by professionals that their idea or contraption cannot possibly work, which can be - for the truly curious ones, not the deluded ones - a stimulus to continue. Quite a few times with amazing success, contrary to the predictions.

Let us not forget that even very, very established and mainstream publications such as the journal *Science* itself was begun by a famous amateur scientist and inventor. Although his methods were sometimes ridiculed by some scholarly scientists, their names are long forgotten. I am sure that everybody recognizes the name Thomas Edison, who, after all, began *Science* as a private venture in 1880. Expelled from school at the age of seven for being "retarded," Edison was taught at home by his mother. His life changed forever when he found an old copy of Michael Faraday's *Experimental Researches in Electricity* and promptly built every project in the book. Thus the self-taught English amateur scientist, who was also schooled at home, successfully passed the torch to the young American.

Astronomy has always been one of the more fertile fields of research for serious amateurs, and an amazing array of significant discoveries has indeed resulted. Many serious amateur astronomers have worked closely with professionals, even coauthoring books and papers with them.

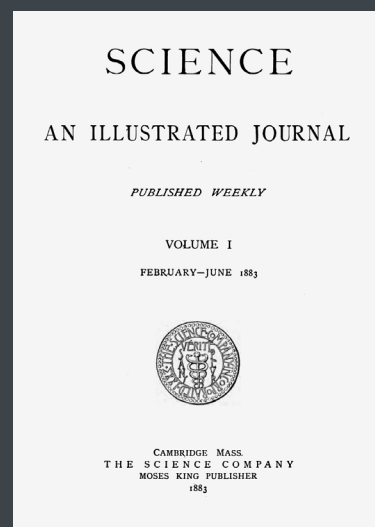
Then we have tens of thousands of amateur scientists making proper scientific observations right here on Earth, for the Weather Services or ornithology, for example. Others are (self-taught) entomologists. Some even work together with extremely highly regarded institutions such as N.A.S.A.

Despite all this, unfortunately there still are a few scientists who refuse to take the work of their amateur counterparts seriously. Paleontology and Archeology are fields where quite a few established professionals do not tolerate any new interpretations - no matter the quantity and quality of the evidence presented.



Portraits of a few famous amateur scientists

- 1 Caroline Herschel
- 2 Mary Anning
- 3 Srinivasa Ramanujan
- 4 Michael Faraday
- 5 Vladimir Nabokov



*Science*, an illustrated journal, issue from February-June 1883, started in 1880 with financial support from Thomas Edison<sup>2</sup>



Extremely unscientific, if you'd ask me, but then again, it shouldn't surprise anybody that those fields are all about fossils and therefore (mis)managed by, well, fossils.

No matter - thanks to the Great Equalizer, the future of amateur science has never looked better. Amateurs built some of the first home computers, and today many amateur scientists have access to systems that far outclass what was available to their professional colleagues only a few years ago. It no longer matters that one can't do a nonlinear regression with a calculator, because economical software does it automatically, and an inexpensive printer then produces plots as crisp as any published in Science.

Oh yes. Small Science can be Big Science, and can still yield the same or at least as useful results as Big Science. The driver - curiosity - works as well for professionals and amateurs alike, because it's the essence of all science.

### The great equalizer

Computers have greatly expanded the capabilities of professionals and amateurs alike, but the Internet has become the great equalizer. Several years ago a well-known "amateur scientist" measured record low ozone levels over central Texas, U.S.A. Thanks to modern communication, he quickly fired off an email to scientists at N.A.S.A., the National Oceanic and Atmospheric Administration, and the Environmental Protection Agency and then organized a quick paper for Eos with them as coauthors. No one asked if he had a degree in the field; all that mattered was the significance of the event and the quality of the data. Now that is progress. There are many examples like that. In this day and age, work - such as scientific observations - are more and more judged on their merits, not only on the academic credentials of the author. If the rationale, data and methodology is sound, why not?

So what's the morale of this story? Well, there is more than one, actually:

- "Show me the data" is the perfect attitude - the (quality of the) data tells the whole story, and that's what science is all about;
- The Internet - bad, even evil as it can be - is at the same time a great tool; it is the great equalizer;
- Small Science can very well be Big Science;
- All this represents tangible progress for everybody.

Finally, I dare say that standing on the shoulders of giants - even if one is an amateur and a dwarf - represents the opposite of reinventing the wheel. ■

### Notes

1. This article is in part based on an article by Forrest M. Mims III, "amateur" scientist. *Science*, 2 April 1999: Vol. 284 no. 5411 pp. 55-56
2. See English Wikipedia article Science (journal): [http://en.wikipedia.org/wiki/Science\\_%28journal%29](http://en.wikipedia.org/wiki/Science_%28journal%29)



ABOUT THE AUTHOR

## ALPCNS

### EXPERIENCED EDUCATOR, TRAINER AND AUTHOR

*AlpCns was born in Amsterdam, The Netherlands. Leaving the Royal Dutch Air Force (Klu) as a computer- and radar specialist, he studied Computer Technology and Operating Systems at the University of Nijmegen, as well as Computer Sciences at the University of Liverpool, United Kingdom, for his Master of Science degree. He has been working in the Philippines for the past 10 years, and has been engaged in assignments and projects all over the Asia/Pacific region. He met and married his Filipina wife in the Philippines and currently lives in Makati City, Manila.*

*With well over 30 years of I.T. experience as a consultant and senior project manager, AlpCns has driven many largescale hardware and software implementations, both hands-on and hands-off, from both a "technical" and "management" perspective. He has been responsible for complex implementations as well as development and consultancy projects for large companies and government bodies, amongst which K.P.N., N.S., GABA, C.M.S. Derks Star Busmann Hanotiau, P.T.T. Telecom, Hewlett Packard, DEC, I.B.M., Sun, A.B.N./AMRO, Deutsche Bank, J.P. Morgan Chase and N.A.S.A. He is a highly experienced project manager and infrastructure architect responsible for multi-million projects, one of the largest projects under his direct control comprising over 381 million guilders (approximately US \$200 million) for the Dutch Ministry of Foreign Affairs.*

*He is also an experienced educator, trainer and author and teaches parttime at a University. He has published in several leading magazines and periodicals in the field.*

*AlpCns is also involved in energy research and works for the website Revolution-Green. He calls himself: A dour old barnacle with a passion for paleolithic electronics and technology, photography, computers, and service management frameworks. You can find more articles by him at Revolution-Green:*

<http://revolution-green.com>

# HOW TO DEAL WITH CAREER SKEPTICS

- JEANE MANNING -

Moray King's remarks, during a *Paradigm Shifts* presentation last year, are meant for inventors, but also give newcomers to the breakthrough-energy scene a broad perspective on the scene and its challenges. A paradigm is a widely-accepted way of thinking, so it's created by influential people holding onto similar fundamental beliefs regarding what is real.

"We're in the midst of a paradigm war right now," says King. "What's starting to emerge from that is the true existence of a fourth dimension of space... Further out are new paradigms of what is consciousness."

In his online presentation King mentioned the various and conflicting belief systems held today by scientists and engineers:

- **Classical physics** is the standard paradigm for engineers. Its beliefs include a fixed background in space and time, one fixed future and all systems evolving like a perfect machine;
- Einstein's **Relativity** theory was the next paradigm, in the 20th century; it dismissed the concept of aether (an energy filling all space) because of a flawed experiment;
- **Quantum mechanics** brought in items such as "non-local entanglement" that would have Einstein rolling in his grave, and zero-point fluctuations;
- **Quantum Gravity vs. String/Brane Theory** is the current hot debate;
- **Consciousness Transformation** is where King hopes it's all leading.

Typically somebody from an earlier paradigm - such as classical physics or relativity - looks at someone who starts to believe in an advanced worldview, such as consciousness transformation, as a crazy or eccentric person. The so-called kook, on the other hand, looks back at those holding the older viewpoints and sees them as out-dated Flat-Landers who don't understand a higher dimension.

Since most engineers are in the standard, classical worldview, there's very little in today's technology designed to exploit more recent concepts. As a result of quantum mechanics we do have solid-state

technologies, but zero-point energy is typically not believed to be a reality for engineers so they don't design devices to tap into it.

Even among scientists who recognize the term "zero-point energy" there's disagreement about what it is. King listed current paradigm-choices regarding zero-point energy:

- It doesn't really exist; it's just a virtual, theoretical thing;
- It propagates throughout space like heat;
- It exists only in three-dimensional space and arises from nowhere. "When you're saying that, you're violating Conservation of Energy," King points out;
- "Or you can choose to interpret it that it enters from an actual, physically-real, higher dimension of space. This is where the paradigm of zero-point energy is leading us to, as we apply more advanced physics to what is going on..."

King counsels inventors on what they can do when critics of a disruptive experiment say: "It violates the laws of physics! It must be a fraud, it must be a mistake." He suggests asking the critic which paradigm they personally are on. Calmly recognizing that we hold different personal worldviews is more productive than having arguments, he points out.

Energy revolutionaries take comfort from the fact that the accepted "laws of physics" do change over time. Moray King cites Thomas Kuhn's classic, *The Structure of Scientific Revolutions*. The book shows that throughout history paradigms change after anomalies - discoveries that don't fit into the official theories of that time - have piled up so high, that the science establishment of that time is unable to hide them. Kuhn pointed to a strategy for science revolutionaries: Don't waste time

trying to convince the Old Guard - the establishment - to embrace an expanded worldview. The experts from the old paradigm will go to their graves denying that the new paradigm could be true. So focus on educating the open-minded and younger generation and let the old worldview just die off naturally.

It appears that physics might need rebuilding, from a new foundation.

Transmutation of chemical elements is one of the anomalies that mainstream Western physics tries to ignore, but that too could change. In laboratories scattered across the globe, scientists are seeing transmutation happen. Mark LeClair in the United States is one of those doing paradigm-busting work and seeing transmutation. He sees the new isotopes (versions of elements) accumulate on a plate and later he sends the substances to an independent laboratory to be analyzed. It turns out that his company NanoSpire's process created rare isotopes that don't occur in nature.

### Transmuting the Paradigm

Another example is the work of Yasuhiro Iwamura of the Advanced Technology Research Center at Mitsubishi Heavy Industries of Japan. He made a groundbreaking announcement last year at a conference at the Massachusetts Institute of Technology: His process transmuted radioactive cesium into praseodymium. Praseodymium is a useful rare-earth element; for instance it helps make high-strength metal for aircraft engines.

The most paradigm-shattering results seen in some laboratories are labeled nucleosynthesis. Nucleosynthesis (creating new atomic nuclei from pre-existing protons and neutrons) is a real anomaly to scientists, King reports. It's not just moving one atom over to its

neighbor in the Periodic Table of Elements. Instead, elements from all over the periodic table suddenly appear.

In Russia, recognition of the reality of transmutation has changed the physics paradigm. Every year, Russian salaried professors have a conference on such topics and try to come up with new theories of the nucleus to explain the effects seen. The meetings are titled Cold Nuclear Transmutation and Ball Lightning. "This is completely accepted in Russia," King reports. But in the West, Nobel prizes are given for a certain theory about the atomic nucleus, and any experiment that violates the accepted theory is treated as if it can not exist. "Western science completely ignores transmutation. And we understand why - paradigm shifts are too disturbing emotionally."

With his eye on what the world needs - low-cost non-polluting energy - King is dismayed to watch the quantum-gravity people fighting wars with the string-theory people and treating each other like angry monkeys would. Further, "It's this thing of 'if you're right then I'm wrong, and I can't be wrong. I've got to know it all'...that's the source of the emotion behind it. Personal paradigm change is an emotional event."

Why do genius-level physicists get so emotional over whether to allow zero-point fluctuations from a higher dimension to enter their quantum gravity theories. Is it just their needing to know-it-all? There's a more practical reason. King explains that they're tied to using the "computational machinery" that takes so many years to learn. In other words, it's about the mathematics! Acknowledging the energetic fluctuations in space makes it impossible to do the calculations, that physicists are trained to do. They can't handle "infinite".

Other physicists also have a problem. Whether they admit it or not, theorists who describe vacuum fluctuations popping in and out, but don't describe a model of where those fluctuations come from, have violated the physics law of Conservation of Energy.

### Why the professors don't want new physics

Quantum mechanics have removed the vacuum fluctuations by a trick called "renormalization" - a way to eradicate those troublesome "higher-order terms that would be infinities" in mathematics. If the vacuum fluctuations are allowed, King points out, physics would have to start over.

"This is the primary objection, why we can't allow the vacuum fluctuations to enter the system. It would cause basically a paradigm shift."

Paradigm wars get vicious. When the results of someone's experiment violates "accepted laws," the community that believed in the violated paradigm throws out the scientific method, notes King. "Instead, scientists act like people, human beings. The new claim is ignored, ridiculed and rejected. They will not change their minds." Eventually the resistance literally dies out and



Moray B. King



a new generation takes over, just as Kuhn saw happen repeatedly throughout the history of science. Before that changeover happens, however, pioneers of a new paradigm face ridicule and often are accused of fraud.

Accusations of fraud can smash a person's reputation. It's a serious matter. King categorized types of so-called fraud:

- Type 1 - An intentional scam;
- Type 2 - Mistaken measurements;
- Type 3 - A true energetic anomaly was measured, but (a) the person has poor business practices, typical with what King calls an esoteric inventor, who lacks enough money to complete the invention. Or (b) the explanation could be incorrect. "Of course you're going to have a wrong explanation, because when you have this energy anomaly, *nobody* understands where it's coming from."

King has advice for participants in online chat rooms:

- - When you call someone a fraud, name the *type* of fraud you think they're perpetrating.
- - Understand the paradigm you're in, so when you say "disobeyed the laws of physics" you know which paradigm those laws are in.

"That'll create mutual understanding as to where everybody's coming from, and allow us to be open-minded to each other's ideas, because we're not busy defending ourselves or feeling threatened by an idea that's coming from a different paradigm."

Moray King is serving in the "Paradigm Wars" as a peacemaker. ■



## JEANE MANNING

### "TRACKING THE NEWS OF THE COMING ENERGY REVOLUTION" COLUMNIST

*Relentless curiosity, love of Earth's children and hope for a more civilized future motivate Jeane Manning to learn about energy breakthroughs. She was a newspaper journalist in Canada when she encountered the scene in 1981 and began traveling internationally to interview scientists and inventors. She attended more than 30 energy conferences.*

*Jeane authored *The Coming Energy Revolution* (Avery, NY, 1996); and *Freie Energie* (Omega Verlag, Germany, 2000). Omega Verlag's *Freie Energie*, the translation of her first book is still in print and so is the French edition, *Énergie Libre et Technologies* (Louise Courteau editrice).*

*She co-authored several other energy books, including *Breakthrough Power* with Joel Garbon. Her books are published in seven countries, and the 2011 edition of award-winning *Breakthrough Power* is being translated into more languages. Most recent is *Revolutionerande Energiteknik*, from Anarchos of Sweden.*

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afbeelding?

# ENERGY PHENOMENA OF THE BOSNIAN PYRAMIDS - NATURE OR CULTURE? -

- DEBBIE WEST AND KEES DECKERS -

This is the second article about the Bosnian Pyramids. In the first we looked at some of the evidence of the ongoing exploration, excavations and scientific investigations at the site of The Archaeology Park: Bosnian Pyramid of the Sun Foundation. We looked at the carbon dating evidence, the evidence of human-made concrete construction material and the evidence, that seems to suggest that the ancient humans, who built these pyramids, knew the secrets of frequency and energy.

This article looks at some of the information presented during the Hidden History Tour & Conference 2014<sup>1</sup>, which took place from August 31 to September 7, 2014 in Bosnia. And specifically at some of the energy phenomena which have been discovered and are being investigated.

This year, 2015, is the 10th year of the explorations and investigations taking place at a pyramid and underground labyrinth complex, discovered in 2005 by Dr. Sam Semir Osmanagich<sup>2</sup> in Visoko, Bosnia-Herzegovina.

Or as the discoverer states it himself:

*The Bosnian Pyramid of the Sun is the Mother pyramid of them all, the oldest and the largest. In order to understand how she works, we have to view this discovery through four realms: scientific, energy, spiritual and healing. The oldest pyramids in China, Egypt and Bosnia are at the same time the biggest and most superior. So, there is no doubt that knowledge has been brought. The question is: by who and why?*

*Dr. Sam Semir Osmanagich, Ph.D.,  
Director of the Center for Archaeology  
at the American University in Bosnia*

Today almost a decade of research has taken place at the site. And much fascinating finds have been done by both professionals and volunteers. Findings which are presented each year at the Hidden History Tour & Conference held at Visoko.

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## WE HAVE TO VIEW THIS DISCOVERY THROUGH FOUR REALMS: SCIENTIFIC, ENERGY, SPIRITUAL AND HEALING

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On September 6, 2014 the Bosnian Pyramid Press Conference took place. Panelists at the Press conference included: Valery Uvarov (Russia), Timothy Moon (New Zealand), Klaus Dona (Austria), Paul LaViolette (U.S.A.), Sam Osmanagich (Bosnia), Michael Tellinger (South Africa), Goran Marjanovic (Serbia) and Stéphane Cavé (France).<sup>3</sup> These eight panelists gave a summary of their findings and ideas, about which they had given a presentation during the 8 days Hidden History Tour & Conference.

Stéphane Cavé stated for instance:

*This is a complex system of sacred codes provided*





From left to right: Dr. Sam Osmanagich, Klaus Dona, Michael Tellinger and Valery Uvarov



Goran Marjanovic speaking at the 2014 Press Conference



Stéphane Cavé at the 2014 Press Conference

to us through a higher intelligence and encoded at a higher frequency of light. Our goal is to access this higher state of consciousness, so we can utilize this advanced energy grid system, that is both organic and mathematical in nature. We are now at the threshold of advancing society into a level of planetary consciousness, that involves a dimensional shift.

And Goran Marjanovic stated:

*I am an engineer of telecommunications and I am dealing with Tesla technologies. I am convinced we are dealing with Tesla technologies. We are certain that the technology of ancient civilizations was far more advanced than what we are using today. And investigating these technologies can assist us on many levels.*

*Both economic, scientific and spiritual advancements are available through the open investigations, we are conducting at this site.*

So much is being investigated and so much information is gathered by so many different disciplines of science, that it is impossible as yet to give even a consistent and clear overall view of for instance the story behind all the discovered energy phenomena above as well as under the ground. We will therefore confine ourselves to some of the information, related by Paul LaViolette and by Timothy Moon.

### **The article on the Bosnian Pyramids by Dr. Paul LaViolette**

Dr. Paul LaViolette, Ph.D., is author of, amongst others, "Genesis of the Cosmos", "Secrets of Antigravity Propulsion", "Subquantum Kinetics" and "Galactic Superwaves and their Impact on the Earth". He is editor of "A Systems View of Man". And he has published many original papers in physics, astronomy, climatology, systems theory, ancient technology and psychology.

The following is taken from his article, entitled: The Bosnian Pyramid Complex: *Signs of Technically Advanced Ice Age Civilization.*<sup>4</sup>

#### **The energy beams**

*An electromagnetic energy beam issues vertically from the peak of the Pyramid of the Sun. It usually has a diameter of about 28 feet, but varies in size and can sometimes reach a diameter of 100 feet. Its position is also observed to move around in a radius of about 50 feet. It has a frequency of around 28 kilohertz, and is found to vary in intensity with its voltage amplitude ranging from 40 millivolts to 4 volts. Its signal may even be absent for some periods. This was found to be accompanied by an ultrasonic wave beam of similar frequency that was observed to have a diameter of 5 to 6 meters, to similarly move around the pyramid in a radius of 15 to 20 meters, and to vary in intensity and even shut off entirely for periods of 10 minutes or so. Weather was observed to affect the intensity of the ultrasound beam.*

*The anomalous character of the beam is strengthened by the observation that its signal intensity is found to increase with increasing distance above the vertex of the pyramid. The beam has been detected as high as 30 meters above the pyramid using a drone, and airplane flights are planned to see if the beam can be detected at even higher altitudes. As one possibility, one might imagine that the beam may have a source above the pyramid (i.e., in space). But this would require the presence of a geostationary satellite which if present should be known to most superpower defense departments which raises questions as to who would have placed such a probe aimed down at this particular pyramid and why the military allows its homing signal to be broadcast.*

*(...) Hills or mountains are not normally observed to*

spontaneously radiate directed energy beams from their tops. So, if anything, the presence of such beams coming from the top of the Pyramid of the Sun should indicate that its outer soil deposits are covering something that is quite unusual and certainly not of natural origin. No one knows how the beams are generated. But it is highly unlikely that the electromagnetic beam is radiated by a radio antenna of the sort most are familiar with. To radiate a 28 kiloHertz radio signal, a quarter wavelength dipole antenna would need to have a length of at least 2.7 kilometers! This is far larger than the diameter of the radiation beam itself. Moreover such antennas normally radiate over a very wide angle; they do not confine their emission to a beam. (... One) possible explanation has been suggested by professor Mizdrak (...) (He suggested) ...that the source of the beam is located hundreds of meters beneath the center of the pyramid. In 2012, a team of 16 engineers, physicists and research assistants, led by Croatian electrical engineer and physicist Dr. Slobodan Mizdrak, conducted an experiment in which they fed a 40 watt signal ranging from 23 to 33 kiloHertz through a square antenna deployed along the top perimeter of the pyramid. The experiment attempted to create an interference between their applied signal and the signal beam that was naturally emerging from the top of the pyramid. The resulting interaction was picked up by a series of electromagnetic wave and ultrasound wave sensors placed at different locations around the pyramid. They acquired 39 hours of data, about 1 gigabyte, which was recorded by a series of electronic data loggers. Using the technique of triangulation, the data was then computer analyzed at an institution for statistics in Belgrade and at another institution in Vienna specializing in advanced mathematics.

The results implied that the pyramid's electromagnetic beam originates 2440 meters below the pyramid apex, just over 2 kilometers below its base. Interestingly, this is about the same distance as that separating the main pyramids (...) Also it was determined that the signal requires a power source of at least 10 kilowatts. Professor Mizdrak theorized that at this 2 kilometer depth there might be a large dish-shaped iron layer



Dr. Paul LaViolette at the 2014 Press Conference

whose center is displaced 410 meters away from the pyramid's central axis, about 10° off axis, and that is somehow being electrically energized to emit these electromagnetic waves and focus them toward the pyramid apex. This would explain why the signal increases in intensity as one moves upward from the top of the pyramid. That is, this subterranean antenna dish may be focusing at a point some tens of meters above the pyramid which would result in the signal strength increasing as this point of convergence is approached. But this dish would need to have a radius of 2.7 kilometers to properly emit this wave.

A power source that has continued to function for 34,000 years? The thought begins to give one the chills. If it were indeed encapsulated at the time of the pyramid's construction, this would imply the existence of a high tech fuel-less generator that has been functioning for over 30,000 years. The existence of advanced technology in the ice age era does not come as that much of a surprise when we understand that highly advanced scientific concepts are encoded in ancient star lore and preserved in ancient Egyptian, Greek, and Babylonian creation myths; e.g., see the books *Earth Under Fire* and *Genesis of the Cosmos*. But as we shall see shortly, there may be a more practical explanation (...)

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## A POWER SOURCE THAT HAS CONTINUED TO FUNCTION FOR 34,000 YEARS?

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A similar 28 kHz energy beam has been detected emanating from the top of the Bosnian Pyramid of the Moon. Except in this case the primary beam is found to be modulated with a beam of slightly higher frequency of around 42 kHz. This is 1.5 times higher in frequency. In effect, the 28 and 42 kHz signals would be like second and third harmonics of a 14 kHz signal. So, there is a definite indication that a resonance phenomenon is taking place within the pyramids.

(...) What was the purpose of these signals? Valery Uvarov at the 2014 conference in Sarajevo suggested that they might be spacecraft homing beam markers. Airports use the same concept. They transmit an electromagnetic homing beam that airplanes use for landing while on autopilot. Another possibility that has been suggested is that it might be some sort of communication beam. When the ultrasonic beam of the Pyramid of the Sun is electronically converted to bring its sound down to the audible frequency range, its modulations sound to some people as though it is conveying some sort of information. One other idea to throw into the works is that perhaps the builders of the pyramid did this to call attention to their pyramid structure so that future generations might be notified of its presence

and not think that it is merely a mountain, as many archaeologists persist in believing. Perhaps they knew that one day it would be covered by flood deposits and needed to incorporate a marker beacon.

### **Is quartzite the cause of the beams?**

Now here is some further food for thought to throw into the mill as another possible explanation for how these energy beams are generated. The Pyramid of the Sun is underlain by a conglomerate rock layer that also extends for kilometers into the surrounding land area where it is found to be permeated by a labyrinth of tunnels dug in prehistoric times. It is found that this conglomerate material contains quartzite as one of its main rock components. Quartzite is a diamagnetic metamorphic rock formed when quartz-rich sandstone or chert has been exposed to high temperatures. Like quartz, it is piezoelectric, meaning that it will generate electric fields if vibrationally excited. This principle is used to keep the second hand accurately ticking in your wrist watch. Now quartzite grains or rocks have natural resonant frequencies that range from a few kilohertz up to many megahertz depending on their size, the larger the rock, the lower its resonant frequency. For example, in the case of a quartz crystal, a crystal having a thickness of 10 centimeters (4 inches) will naturally resonate at 28 kilohertz. Interestingly, if we take the speed of sound in concrete we find that it is 3,400 meters per second, about 10 times the speed of sound in air. Now an ultrasound wave manifesting a frequency of 28 kilohertz in concrete will necessarily have a wavelength of 10 centimeters! Just a coincidence? This means that ultrasonic vibrations generated by the quartzite will produce sound waves whose wavelength matches the dimensions of the quartzite rocks that are resonating at this frequency and hence will sympathetically reinforce their vibration causing self-amplification of the resonant vibration!

This makes one wonder whether the ancient architectural plan to construct a pyramid encased in concrete made of embedded quartzite may have been purposefully done as a way of amplifying a resonance that was naturally present in quartzite rocks of the proper dimension. Moreover because these quartzite rocks are piezoelectric, they will be producing an oscillating electromagnetic field of the same or similar frequency. Of course, quartzite will have somewhat different resonant frequency than the example given above for quartz, and this will depend on the impurities present in the rock. But, in general the resonance will have a wavelength size that will center around quartzite rock inclusions of about the size that are found in the concrete and conglomerate layers.

If the quartzite conglomerate making up the concrete encasement of the pyramid and also the underlying naturally present quartzite conglomerate layer are radiating ultrasonic and E.M. waves at this particular frequency, then it is conceivable that the resulting electromagnetic wave component could be focused by the iron dish-shaped reflecting layer that Dr. Mizdrak

has theorized might underlie the pyramid, and thereby be directed upward toward the pyramid apex. So actually the observed electromagnetic energy beam may be deriving its energy ultimately from the pyramid's ultrasonic energy waves and their resonance with the quartzite in the rock conglomerate.

### **Intriguing resonance and sound phenomena**

An ultrasonic wave components have been discovered coming from the Tumulus in Vratnica where it was found to be much more discontinuous than that coming from the Pyramid of the Sun. Also its sound emissions were found to be emitted far off from the center of the tumulus. The signals have also been measured in the tunnel labyrinth system adjacent to the Pyramid of the Sun but the ultrasound component there was very weak and present only deep within the tunnel system. Also an infrasound component was present there in the 7 to 10 Hertz range, hence in a range that corresponds to the frequency of the Schumann electromagnetic resonance. Hydrophone recordings conducted in water pools within the Ravne tunnels showed the presence of ultrasound oscillations at 24 kHz and one octave up at 48 kHz whose amplitudes changed in a rhythmic manner. A 38 kHz frequency also appeared erratically. Interestingly, this is 14 kHz higher than the 24 kHz frequency, a difference frequency that is half of the 28 kHz frequency reported coming from the Pyramid of the Sun. Researchers were getting too much environmental noise to get reasonable ultrasonic measurements for the Pyramid of the Moon. There are plans in the future to make hydrophone measurements there.

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## COULD THE PYRAMID BE ACTING AS A SEISMIC ENERGY ACCUMULATOR THAT DAMPENS EARTHQUAKE ACTIVITY IN ITS VICINITY?

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So what is the source of this vibrational energy of over 10 kilowatts that excites this quartzite resonance? One source might be natural seismic noise in the earth arising from movement of the Earth's tectonic plates and ongoing mini seismic events. Seismic studies have found that the region around the pyramids is unusually quiet. Could the pyramid be acting as a seismic energy accumulator that dampens earthquake activity in its vicinity? Intriguing! Or this energy may come from the 7.83 Hertz Schumann electromagnetic resonance that comes from all parts of the sky due to oscillation of the Earth's ionospheric layer. This frequency lies nowhere near the pyramid's 28 kilohertz resonance, but interestingly scientists have found it present in the EM signature observed coming from the Pyramid of the Sun. So likely it is somehow tied into the resonance phenomenon that takes place there.



*Of course, this theory is presently somewhat speculative being based on a paucity of information. Research needs to be carried out to measure the actual speed of sound in the pyramid's concrete slabs, the resonance characteristics of the quartzite found in the concrete and in the natural conglomerate layer. But for those of you who have any doubts about this theory, I encourage you to come up with a better explanation. It is indeed a mystery that needs explaining.*

### **The 2014 report by Timothy Moon**

Timothy Moon is the Archaeological Project Manager of the Bosnian Valley of the Pyramids Foundation.

In the introduction to his *MRAV 2014 Report to research, investigations and observations INTERNATIONAL summer camp prepared for Bosnian Valley of the Pyramids Foundation* he states that:

*In addition to the mountains of information supporting past existence of an advanced civilisation, colossal architectural structures and subterranean labyrinths, the Foundation has amassed in excess of 12,500 ceramic materials, several never previously decrypted glyphic texts, megaceramic stones, construction materials and more than 1,200 lithic artefacts ranging from stone tools to art objects and utility items. (...) The evidence is available for examination. A civilisation incredibly substantial in its footprint, spanning a great many years existed at this location in a distant epoch. So distant that it has been forgotten to history. So ancient the processes of geological time have applied their pressures absorbing much of the structures back into the landscape (...)*

*The commentary that follows is intended to share observations, investigations, understandings and ideas as to what occurred at this location, what is presenting both quantifiably and intangibly. The project presents a renaissance to investigation technique. No longer can we confine ourselves to the observation of purely material evidence, but we must venture further to adopt a wider concept of evidential capture; energy signatures, acoustic outputs, electromagnetism, atmospheric*



Timothy Moon at the 2014 Press Conference

*composition and observable phenomena contain elements of cultural expression complementary to physical artefacts and features. Just because we may not hold them in our hand, gaze upon them with our eyes, (we, red.) should not discount their value or existence.<sup>5</sup>*

What follows is taken from the 118 pages of the report and is only about one observed and investigated energy phenomenon, known as the R.E.P.

### **The R.E.P. - Ravne Energy Phenomenon<sup>6</sup>**

One of the energy phenomena observed in the Ravne tunnel labyrinth is what Timothy Moon calls R.E.P. - the Ravne Energy Phenomenon. In his report he tells that in the tunnel system, which has many anomalous characteristics like negatively charged air, an oxygenated atmosphere without any need of ventilation, ultra and infra sound, no radiation and more, through 2011 and 2012 both students and volunteers brought to the attention an only by way of their cameras and image capture devices observable something. An orb-like phenomenon, invisible to the naked eye, with an estimated moving speed of 250 m/s or 900 km/h. A series of tests was set up to attempt to confirm or dismiss the existence of this anomalous something. Of 135 examined photos 110 remained unexplained.

The conclusion after more research is that a consistent light phenomenon is occurring and asks for further investigation.

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## THE HEART STONE MIGHT POSSIBLY BE OUR ROSETTA STONE, LINKING CULTURE, TECHNOLOGY AND PHENOMENA

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### **The Heart Stone**

Then something else was discovered. A stone named: The Heart Stone. Moon tells:

*Now at this point we take a look at one of last year's great artefact discoveries - the Heart Stone. This just might possibly be our Rosetta Stone, in that it links Culture, Technology and Phenomena. By way of explanation - the Heart Stone projected an image for 4 days after recovery and return to the technical laboratory. Approx. 39 photographs were taken before the image disappeared. Note the structure of the image(s) at lower centre left - we have an outer perimeter circle, inner circle and a nucleus.*

Just like in the R.E.P. photographs.

The stone is being analysed in a Materials Laboratory in the U.S.A. Requested are amongst others analysis of



R.E.P. - an orb-like energy phenomenon in the Ravne tunnels



Another example of the R.E.P.



The Heart Stone while the image was still there

the construction material and presence of pigmentation or other means by which the image is fixed. And Moon explains that they have posited the following questions:

- 1 - Is this an art object?
- 2 - If it is an art object, then we have cultural evidence of the ancient civilisation's knowledge of the R.E.P.
- 3 - If this is not an art object, how was the image projected?
- 4 - Is the image stored energetically or by an other method?

### The water droplet phenomena

But the story of the R.E.P. does not end there:

*(...) still images of energy forming within a water droplet, post season analysis of a selection of moving images, has provided a glimpse to some most perplexing activity and as it would happen has formed the foundation to 2014's REP research programme. In this specific instance our 2013 research team identified a water droplet forming in side Ravne labyrinth. The camera focused in on the drop, approx. 1.2 mm wide, and captured the normal cycling of water - an attribute of water is it never stays still - what came into focus however was something forming within the droplet, a series of spherical objects displaying concentric circles consistent to those observed earlier in the seasons REP research. Initially one, then two and finally eight objects could be seen and are recorded.*

*This photographic research is important for a number of reasons. We are now tying many complex parts of a puzzle together. On the one hand we started this journey looking in to student and volunteer photographs, attempting to understand what they were capturing, then we move to an Artefact displaying a facsimile - the Heart Stone (refer MRV 2013) - here an art object or technology shows us that someone in the past saw REP and reproduced it for aesthetic, worship or technical reasons, establishing a relationship between culture, man and REP. Then we correlate to the water droplet in which we see again the same concentric circles, outer ring, internal ring, down to a nucleus - very interesting that all these parts are beginning to interlink. By extrapolation - are we seeing ancient knowledge? Are we witness to a forgotten and naturally forming technology? Or, is this all just coincidence? Coincidence is a too convenient dismissal for a phenomenon that spans time and space. The Heart Stone was recovered from a 20,100 BP deposit, the photographs were taken in 2013, the Water Droplet was filmed in 2014, REP Orbs 2012-2014 - something very interesting is at play and we suspect it is the product of natural energy emissions being influenced, focused, manipulated and encouraged through a complex interrelationship between engineerd architecture, geology (quartz), atmospheric conditioning and water, not forgetting these elements and the Ravne complex appear to radiate out from the Pyramid of the Sun.*

Meanwhile the R.E.P., the Heart Stone, the story of the



water droplet and the Ravne tunnel water are being investigated further. Other intriguing observations have already been made with regard to water droplets. Paul LaViolette says about the observations:

*The tunnel system somehow regenerates its air, always maintaining its oxygen level at 20% without any need of ventilation. Measurements indicate very high levels of beneficial negative ions in the tunnel atmosphere, 200 times higher than in the outside country air! One possibility is that the 28 kiloHertz ultrasonic vibration that permeates the tunnel somehow induces sonic dissociation of the water droplets, sonic cavitation effects perhaps splitting the water molecules into hydrogen and oxygen. Although this theory needs further testing, photomicrographs made of water droplets in the tunnel show that something excites their surface and causes microscopic water clusters to seed off from their surfaces. People say they feel energized after spending some time within the tunnels and claim to have had health ailments cured. I heard some testimonies first hand. So, many visitors to the Ravne tunnels come for health purposes, to "energize" themselves. It is reminiscent of healing that takes place at spiritual centers such as Lourdes. In fact, many people take home with them bottles of water taken from the Ravne tunnel which is believed to have healing properties, the energy vibrations within the tunnel system having imprinted themselves into the molecular structure of its water (...)*

And Timothy Moon states:

*It has been likened to a birth of energy, drawn from the water possibly by the unique composition of atmosphere present in the Ravne tunnels.*

### In conclusion

It may be clear from both the article by Dr. Paul LaViolette and the report by Timothy Moon that, while still keeping in mind the main question about all found artefacts, other materials and observed phenomena: Are they natural or cultural?, the research at the Bosnian Pyramids site is very open.

Whatever the causes of all the observed energy phenomena, they warrant such an open-minded scientific research beyond the established boundaries of archaeology. Or as Timothy Moon states it, it needs: "to move beyond the constraints of archaeology as a solely material study", it needs a "policy of 'wide conceptual capture'", which is an aspect of the Bosnian Valley of the Pyramids project. Such an open-minded attitude may very well lead to much more information about very ancient civilisations and their knowledge of energy. It may also lead to new knowledge of the possibilities of all kinds of energy phenomena, as yet undiscovered or not researched extensively enough.

Science starts with and is about curiosity. And if there is one phenomenon we need to be as openly curious about as possible, it is energy. Energy in all of its forms and phenomena, from material to spiritual. We, humans,

exist entirely of energy. Our entire universe exists of it. Literally everything exists of it. So, no stone should be left unturned to find out the truth at The Archaeology Park: Bosnian Pyramid of the Sun Foundation.

### Notes

1. Information about the *Hidden History Tour & Conference 2014* can be found here: <http://piramidasunca.ba/eng/latest-news/item/9478-hidden-history-tour-conference-2014-with-dr-sam-osmanagich-phd.html>
2. The personal website of Dr. Sam Semir Osmanagich can be found at: [www.samosmanagich.com](http://www.samosmanagich.com)
3. A video of the Bosnian Pyramid Press Conference, held on September 6 2014, can be found here: <http://vimeo.com/105741329>
4. The article *The Bosnian Pyramid Complex: Signs of Technically Advanced Ice Age Civilization* by Dr. Paul LaViolette can be read in its entirety at: <http://etheric.com/bosnian-pyramid-complex-signs-technically-advanced-ice-age-civilization/>
5. Page 1 and 2 of the *MRAV 2014 Report to research, investigations and observations INTERNATIONAL summer camp prepared for Bosnian Valley of the Pyramids Foundation* by Timothy Moon: [http://piramidasunca.ba/images/2015/0115/bosnian\\_pryamid\\_2014\\_report.pdf](http://piramidasunca.ba/images/2015/0115/bosnian_pryamid_2014_report.pdf)
6. Ibid, pages 41 through 54



## DEBORAH WEST

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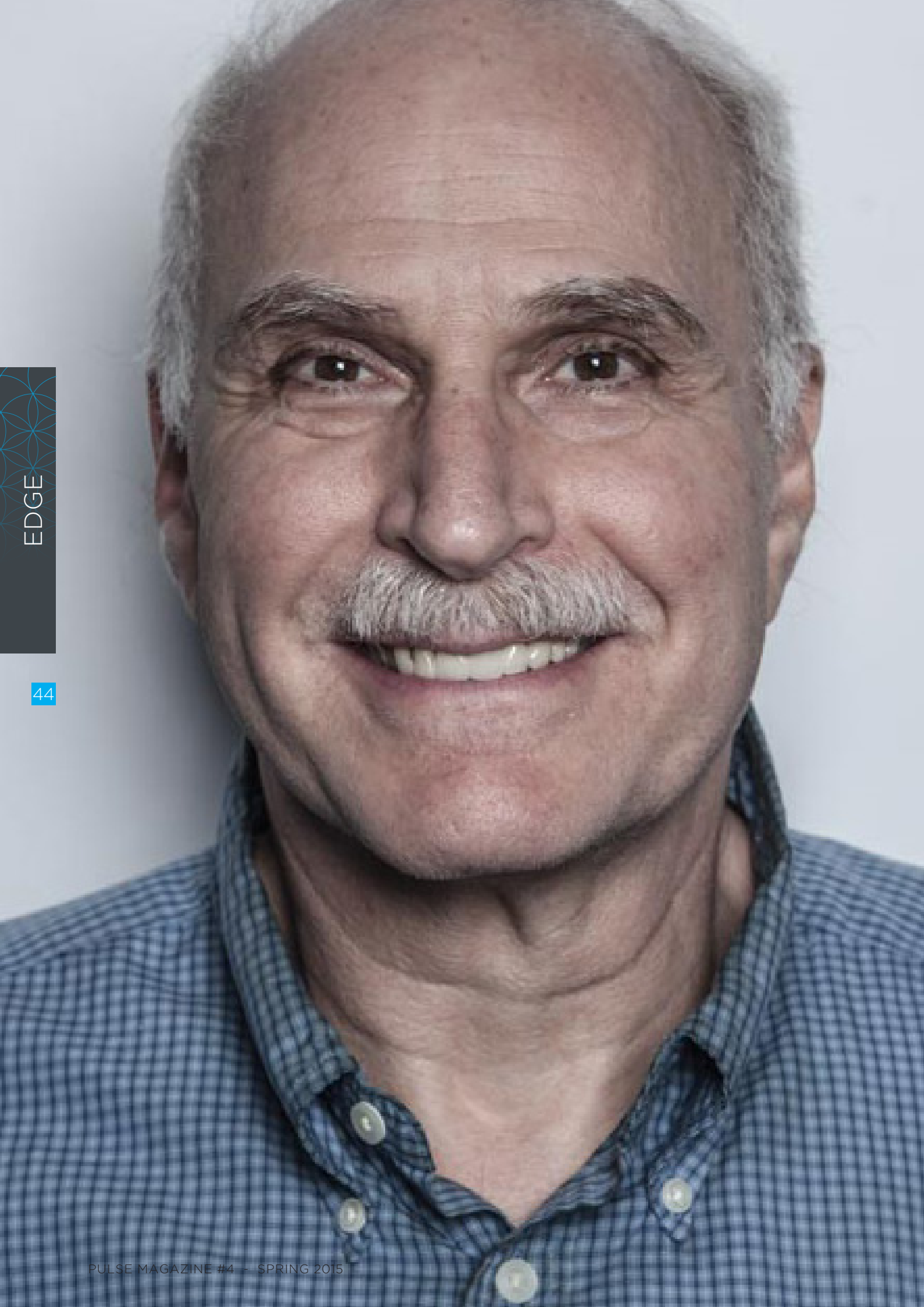
*Doing articles for N.A.S.A., B.A.E. Systems, healthcare and energy. She is currently a freelance journalist and has a weekly radio show called **Lost Knowledge** on Revolution Radio. Her columns are published on numerous sites including C.N.N. iReport, U.F.O. Digest, Waking Times, Alt Headlines, EXO News and The New Era Times.*

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# MORAY B. KING ON MICROSCOPIC BALL LIGHTNING AND VIBRATION

- JEANE MANNING -

Every year Moray B. King has more ideas on how to start a clean-energy revolution. Why is he now advising inventors to make tiny ball-lightning entities? And why “vibrate your electrolyzer”? He explained why, in our telephone interview recently. If you’re non-technical - a lay person - you may need to be introduced to the topics before I quote him at length, so I’ll ease into it.

First, here’s why King is widely respected in the breakthrough energy scene and elsewhere:

- If you read the three books he’s authored, you see that he’s relentlessly studied the “zero-point energy” references in peer-reviewed physics journals for more than 30 years. He knows physics and systems engineering and works at it in his day job;
- As he talks with experimenters around the world, who have proven aspects of tapping into a new energy source, King looks for similarities in their breakthroughs - clues to understanding how revolutionary inventions may work. Often he originates connections between science experimenters and ties together the threads of various discoveries;
- He “walks his talk” - maintains integrity and compassion and gives his knowledge away freely.

King proposes an open-source project - more about it later in this article - that I believe could inspire a retired electrical engineer or bright young self-trained hobbyist, for example, to successfully build a self-running electricity-generating system.

If even one person succeeds and publishes precise how-to details, and other builders replicate the system by the hundreds, then thousands, and perhaps a million times, that would ensure that the breakthrough will reach the people.

That scenario will be more likely if bright, skilled inventors believe it is possible to tap into the universal background energy that nature uses to create self-organizing systems.

## Nature works with plasma

Plasma-based energy research especially catches King’s attention. (Plasma is a gas that’s often called the fourth state of matter, in which many of its electrons wander around freely). He sees plasma discharge as the most promising field of inquiry for scientists who aren’t afraid of a new paradigm.

Unfortunately disbelief usually gets in the way. Try telling a highly educated scientist that an abrupt electrical discharge making vortex rings in a plasma could cause it to pull in abundant energy from the vacuum of space. And even if an everyday person working in his home garage wants to, he can’t do the extremely difficult work such as stabilizing ball lightning in plasma tubes. However, King sees an opening for revolutionary research.

Many garage-based tinkerers have tried to get more miles-per-gallon from their car, pickup truck or boat by adding hydrogen to the fuel mix. A scattering of those individuals may have accidentally created an influx of energy in plasma. Those lucky experimenters suddenly saw a dramatic result - a burst of extra power in their engines. They could only guess at what was going on in their vehicle’s fuel system. To grasp what Moray King wants to tell skilled experimenters about those projects, it helps to know a bit about plasmoids, which are coherent structures made of plasma and magnetic fields. Airline pilots sometimes see huge plasmoids in the upper atmosphere, eerie flashes of colored light up to 50 miles high above the tops of powerful thunderstorms. Scientists call those forms “sprites.” The Space Shuttle photographed those flashes as it passed over a

thunderstorm. As if seeking stability, a plasmoid forms into a torus, which is like a donut shape but can be fatter and look almost like a ball.

Ball lightning is more down-to-earth, but only in the sense of its location. The weird behaviour of these rare spheres of glowing gas have terrified individuals in isolated sightings throughout history.

Less widely known is that ball lightning isn't only floating spheres and earthquake lights; it also comes in an extremely tiny size. Every time you're zapped by static electricity when you touch a metal doorknob after shuffling across a carpet you've been hit by microscopic ball lightning.

### Power for the people

What can it do? King's friend the late Ken Shoulders, working independently for many years in his well-equipped laboratory, found out.

A very skilled and brilliant scientist, Shoulders opened a new frontier when he learned to create microscopic ball lightning on demand. It consisted of clusters of same-charge particles such as electrons or protons. Although "like charges" are supposed to repel each other, his clusters were relatively stable. And incredibly energetic. Shoulders called the microscopic entities E.V.'s, for Electrum Validum, and later changed the name to E.V.O. for Exotic Vacuum Objects. When they released their collective charge onto metal surfaces, his tiny E.V.O.'s dug craters.

Certain experiments made E.V.O.'s that were so powerful they destroyed any target they hit. Shoulders dropped that line of E.V.O. research; it seemed impossible to convert such destructive energy into a useful system of generating power for homes or industries. However, he maintained his interest in plasmoid power for propulsion.

Shoulders was conservative - low key in his announcements. When he said "propulsion" regarding his work he meant the unusual type of propulsion that he was seeing with the microscopic entities.

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## ZAPPED BY STATIC ELECTRICITY... YOU'VE BEEN HIT BY MICROSCOPIC BALL LIGHTNING

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King proposes experimentation to prove whether that type of propulsion can cause a piston to accelerate. If an abundance of microscopic ball lightning was made inside the chamber of an internal combustion engine, "all of a sudden you're propelling the piston by a

*The following is adapted and updated from a chapter of The Coming Energy Revolution by Jeane Manning (Avery Publishing Group NY 1996. The German edition Freie Energie is still in print from Omega Verlag).*

When he was a graduate student at the University of Pennsylvania in 1978, Moray B. King risked upsetting a committee of engineering professors with his proposal for a doctoral thesis topic - that energy could be tapped from space. The personable, good humored King had not set out to shock. In fact, as a dutiful Systems Engineering student, he had at first accepted the standard view that the vacuum of space is useless as an energy source.

However, King had become intrigued with a new idea a couple of summers before, after reading a book about U.F.O.'s. In his search through the physics literature for principles that would allow for anti-gravity, he ran across a concept that interested him even more - something called "zero-point energy". It not only allowed for anti-gravity, it also allowed for an abundant source of energy.

### What do the textbooks say?

Most scientists and engineers have been taught that the vacuum of space is completely empty and still in the absence of heat, light, and matter. Unless a student is studying quantum mechanics, his or her textbook never mentions zero-point energy.

The quantum mechanics student does learn that the fabric of space consists of random fluctuations of energy. He or she also learns that these fluctuations are collectively called zero-point energy because they represent the energy that is present even at a temperature of absolute zero, the temperature at which everything is completely cold. It is the energy that exists when all other sources of energy are taken away.

This energy is difficult to detect because it is everywhere. Expecting someone to sense it is like asking a fish to detect the ocean; the fish has no concept of a world that isn't an ocean. Similarly, the fluctuations of energy that make up space energy may be too tiny and too quick for us to sense them, either with our bodies or with standard detection equipment.

Why did Moray King's engineering professors fail to teach him about zero-point energy - what we refer to as breakthrough - or new - or vacuum energy? The reason is that scientists assume that these vacuum fluctuations simply even out. They call this the second law of thermodynamics, also known as the law of entropy. Under this law, everything is



different mechanism, a more powerful mechanism than simple hot air expansion.” He explains what could be happening inside the electrolyzers that become mysteriously super-productive. “In addition to hydrogen, you’re making some type of little bubble or water cluster or cloud particle - whatever makes thunder clouds. The microscopic - possibly nanoscopic - structure that’s making it acts like a template that, when subject to an abrupt electrical discharge, turns into microscopic ball lightning. And the ball lightning now exhibits excess energy, and unusual propulsion, like a flying saucer propulsion type of mechanism. It’s easy to do, compared to plasma research.”

As King studies old technical publications, he notices that in the late 1960’s and beyond the interesting papers on plasmoid research disappeared from scientific literature. Except for what he called the “tame” papers. Apparently in the mid 1960’s someone in the halls of power realized there were military applications to plasmoid discoveries. Then the research became classified. King speculates that government-funded laboratories have made progress with plasmoid-related discoveries, but on a need-to-know basis which means no sharing of knowledge with outsiders. Meanwhile people on the outside are deprived of such knowledge or have to stumble into it.

Accidental discoveries may have happened during the last financial downturn, when owners of small machine shops were hungry for work. The price of gasoline was high, and that’s when the popularity of experimenting with certain mileage-boosting devices exploded on the Internet.

### The HHO Games

“Garage guys” like to work on cars, so with the Internet and sharing of results of experiments there was a widespread burst of tinkering with hydrogen “boosters” that increase automobiles’ fuel mileage. As a result, in the past decade countless hobbyists experimented with what were called HHO generators - devices that use electricity to release a gas from water. The highly explosive gas was given names such as Brown’s Gas, oxyhydrogen, hydroxy or HHO. The hobbyists usually mixed it with regular fuel in the engine.

King credits George Wiseman with pioneering work involving that gas and with sharing information. Wiseman, a longtime inventor and author of how-to-save-fuel manuals, defined Brown’s Gas (HHO etc.) as the entire mixture of gasses evolving from an electrolyzer that splits water and is specifically designed to electrolyze water and not separate the resulting gasses. Also well known in the HHO community is, that the colorless clean-burning mixture has characteristics that seem to defy today’s chemistry teachings. It creates a flame that is cool - around 130 degrees F. - yet its beam is able to melt steel, brick and other metals. Seeking a practical way to use those qualities, Wiseman developed a very efficient welding tool called the Water Torch. He found that the gas it used seemed to even have health-enhancing properties. Another mystery.

Hobbyists who just wanted fuel economy weren’t as intense as Wiseman about trying to explain the anomalies around the gas. They believed they had the basics: In the HHO the hydrogen and oxygen don’t form into  $H_2$  and  $O_2$  molecules and instead the elements are in their monatomic (one atom per molecule) state. This is a valuable state because molecules don’t need to be broken into lone atoms; the gas is ready for combustion. Amateur experimenters expected that more energy will be returned when the hydrogen burns (combines with oxygen). Their electrolyzers directed the gas into a vehicle’s air intake system, where the enriched air could be mixed with less fuel in order to save fuel. The hydrogen story went viral occasionally when someone in the HHO network suddenly saw dramatic gains in miles-per-gallon. However these individuals couldn’t explain exactly how others could achieve those amazing results.

### Electrically-expanded water

Wiseman was a leading voice with a theory about the unusual high-energy gas that bubbled abundantly out of some of the electrolyzers. He called it electrically-expanded water. It had to be more than just a form of hydrogen and oxygen mixture, because it made a cool flame which somehow melted the most melt-resistant metal - tungsten.

A student at the University of Idaho heard about the excitement. Thanks to an open-minded female professor, student Chris Eckman gained access to sophisticated laboratory equipment for HHO/Brown’s Gas experiments. Eckman eventually had the mathematics to prove that the gas has unusual properties that mere hydrogen and oxygen mixtures don’t possess. However Eckman found that many professors wouldn’t listen to him “for more than ten seconds” when he wanted to talk about the anomalous results from his experiments. He silenced one of those skeptics by beaming his water torch’s cool flame at a metal object and quickly burning a hole through the metal.

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## GOOD VIBRATIONS IN JAPAN

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To be fair to the critics, the standard electrolysis process of separating hydrogen from oxygen does require more energy than would be gained from burning the hydrogen, so educated critics assume that HHO experimenters are ignorant of those facts.

Eckman didn’t give up; he wanted to know if the gas created in successful HHO experiments is merely hydrogen and oxygen. He noticed Wiseman’s description of



the gas as a new form of water. Eckman did tests such as atomic mass analysis, and concluded that the effect of the gas wasn't a chemical reaction, but was indeed an electrical reaction.

Meanwhile outside the university a few researchers who did have access to expensive test equipment claimed that they aimed a Brown's Gas torch at a metal and it resulted in elements transmuting. Others claimed to be neutralizing radioactive wastes!

### Good vibrations in Japan

News came out of Japan: "Mr. Ohmasa, president of Japan Techno, has devised a method of producing an unusual hydrogen-oxygen gas that could become an alternative fuel of the future, conceivably replacing gasoline, both due to its burning characteristics as well as its ease of storage and transport." As expected, water vapor is the only emission when the gas is burned. Ohmasa also said his product had unusual characteristics. For example, "Ohmasa gas doesn't explode under pressure, but only recombines when ignited."

When Moray King read Ohmasa's patent, details about vibrating electrodes caught his attention. "Little vibrating paddles jerk back and forth and Ohmasa says that's important," King noted.

Ohmasa revealed that he uses low-frequency vibrations to circulate water in his system before electrolysis. In the water, bubbles form that are not visible because they are so tiny - on the nano scale. King consulted the expert on cavitation, American research engineer Mark LeClair of NanoSpire Inc.\* He and King were speakers at the Global Breakthrough Energy Movement conference in 2013. LeClair via satellite announced that he could create transmutation effects with collapsing bubbles of water.

LeClair said yes, the rapid snapping effect from those blades, so quickly changing direction, would make cavitation bubbles, behind the snap motion. Cavitation - an imploding bubble - happens in a liquid when a swiftly moving solid body (as a propeller or other blade), or a high-intensity sound wave, suddenly forms partial vacuums and those bubbles collapse.

King and LeClair pondered the patent and its details that relate to LeClair's work. "He has holes in his electrolyzer plates for the reentrant jets to enter." It didn't appear that Ohmasa realized that he could be tapping into a huge source of energy, or that he even knows about the work of LeClair or the speculations in King's public presentations. Ohmasa wrote about mixing the unusual gas into ordinary fuel.

As far as the English-language researcher can discover, Ohmasa's presence on the web has not been updated since around 2012.

### Why do they hide?

All too often, soon after some experimenter announces

*continue of page 46 >>* doomed to increasing disorder, until all comes to a dead rest. This means that, according to traditional science, vacuum energy cannot be put to any practical purpose because its randomness cannot be made into an organized system. It would be as if a pile of threads suddenly organized themselves into a shirt.

### A new energy physics: Making the impossible possible?

King had found the most impressive reference to zero-point energy in a book called *Geometro-dynamics*. The author, noted physicist John Archibald Wheeler, said that this energy foaming within the fabric of space is enormously powerful. If formed into an object, it would put out more energy than a bright star. That's a lot of power.

Does this source of incredible power really interact with our world? King found that there, too, the physics literature held good news.

Quantum mechanics - the branch of science that deals with protons, electrons, and other basic particles of matter - teaches that super-high-frequency energy does interact with physical matter all the time.

A difference between standard quantum mechanics and the ideas of Wheeler and other scientists is that the latter believed basic particles such as protons and electrons were not only mixed with the energy of space, they were actually made out of that energy. As King continued to read through books on the subject, he began to see energy as a flow, a river from another dimension of space, and basic particles as tiny whirlpools in that river. If the river ceased to flow, the basic particles - the building blocks of all matter - would disappear. So would everyone and everything.

Filled with a sense of awe, King began to see beyond the standard view of background energy as a random jittering of basic particles. He found that his newfound ideas were confirmed by the work of Timothy Boyer, Ph.D., a physicist and teacher. Boyer said - contrary to traditional scientific belief - that space energy did influence matter, the physical world around us, and that it wasn't always random and meaningless.

Eventually, King realized that if engineers could get only a small part of those random energetic movements in space to line up with each other, they could tap into a tremendous source of power for our everyday world.

### Coming up with a new combination of theories

King wondered: Why was no one asking if all that power could be harnessed and put to work? The answer seemed to lie in specialization. The people

success in making an electrolyzer genset system (an electrolyzer connected to an electrical generator) self-running, the experimenter goes silent. No more public statements. Maybe financial investors asked Ohsama to become secretive, but other instances hint at suppression of the inventions.

King had highest hopes for Steven Eaton, Ph.D., a nuclear physicist who had worked for the National Science Foundation for decades. Eaton's many accomplishments in physics included inventing the early-warning nuclear detection devices used worldwide in power plants. Reading what Eaton put into his patents, King was impressed with the quality of Eaton's work as well as his qualifications. While Eaton was discovering how to build what reportedly became a self-looped system with excess energy produced in the process, HHO entrepreneurs were at the height of building businesses. (A few years later state governments passed extra laws in the United States to shut down this activity. The laws make it illegal to alter the engine of a vehicle).

One entrepreneur, Jeff Sokol, had started a company called HybridTech and was selling hydrogen boosters to enhance the burn of diesel semi-trucks, so truckers could save fuel and pass emissions tests. The business was thriving, so HybridTech started designing systems for agriculture and other heavy equipment including units for locomotives and ships.

When Steve Eaton apparently decided that his own invention was ready to be considered for mass production, he contacted HybridTech. On November 13, 2009, HybridTech told the world about Eaton's success.

HybridTech announced that they would be open-sourcing (releasing to the world) plans for building a water fuel cell that produces enough hydroxy gas from water to run an electric generator that keeps the electrolysis cell going, while producing extra electricity for other uses. The water fuel cell that they announced went far beyond mere boosting of fuel efficiency. It only needed enough gasoline or diesel to warm the engine, Sokol told an inquiring journalist. After the engine was warmed it was said to run completely on hydroxy (HHO, Brown's) gas.

The experimental system had self-run with water as fuel for 20 minutes, until a bench grinder was added to its load of light bulbs. It needed further improvement to handle a larger load of extra tasks. HybridTech prepared to run an eight-hour videotaped bench test the next day and then post it on YouTube.

Energy revolutionaries such as King were excited and hopeful. That didn't last long. Almost immediately after Sokol sent out the announcement and a draft of the plans, his company website came under attack. Soon something mysterious, much worse than the malware episode, happened; it caused Eaton to order Sokol to take all the information off the Internet immediately and cease contact with him. King later spoke with Sokol but he too didn't know what had caused Eaton to cut off contact.

The HHO community recalled stories of researchers, who have also disappeared from public view after achieving success, and confided to friends that they had been threatened with dire consequences if they



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didn't stop their electrolysis research. They also wonder what happened to the research team known online as Oliver and Valentin of Germany. The pair openly posted information online, during the many months that it took them to develop a self-running system. They intended to open-source the information to the world when they got it to self-loop - power itself. Oliver and Valentin had apparently succeeded by December of 2010, when they posted a celebratory video showing a hydroxy-powered genset on a cart self-running for eight minutes. They wheeled their genset down a hall and into an elevator to show there were no hidden connections to an electrical grid. The camera continued photographing while the elevator descended four floors, then they were shown wheeling it out into a courtyard. While self-running all that time, it also generated extra electricity to power a 400-watt light. Their online community never expected that project to disappear from the Web, but it did.

"I think what's happened over the years is that these inventors stumbled onto that vibrational trick unwittingly," King says.

The only inventor who publicly talked about intentional vibration of the electrodes in his HHO device made the mistake of going into business and risking destruction of his reputation. He said he was sending out products in the mail but someone or some agency sabotaged his effort - customers didn't receive products they'd paid for. Customers spread the word: "Fraud!" An unrelated inventor was meticulous about details, with much business help from his wife. They wrapped packages carefully. Yet when he shipped plexiglass kits for people who wanted to build super-efficient electrolyzers, he experienced an unexplainably large percentage of his products arriving in a smashed condition.

These incidents and others made King conclude "there must be something here" if some interest group was afraid to allow this line of research to prosper. If it was only standard electrolysis and standard feeble hydrogen production, the HHO scene would have withered under the heat of ridicule long before it was legislated away in North America, King says. (Laws passed in recent years forbid tampering with a car's computer or with the technology of wastefully burning gasoline inside catalytic converters).

#### **King's message to experimenters:**

"Make the microscopic form of ball lightning, like clouds do. A vibrating electrolyzer tends to make cloud particles. That's why I picked electrolyzers (for a proposed open-source project). You want the easiest way to make lots of ball lightning, and that's making it for the genset." (Genset is defined as an engine-generator, a machine used to generate electricity).

"The other theme I'm harping on this year, based on Ohmasa's work, is 'vibrate your electrolyzer!' Find the mechanical resonance where it makes the most fog coming off. Just like Ohmasa did. You can easily make a vibrator where you can shift the mechanical frequency

*continue of page 48 >>* who make machinery and generators to move and heat and power things - the engineers - don't necessarily study quantum mechanics. The people who do study quantum mechanics, the ones who come up with the equations and the formulas - the physicists - don't build machinery.

Even if the majority of neither the engineers nor the physicists were interested in this topic, King was. He still wanted to find out if there was a way to allow for the use of the energy in space. So the young student set a task for himself. He would stick to the standard physics literature and look for concepts that could be put together to form a body of knowledge - a combined theory about the feasibility of tapping into that abundant energy. He searched through the respected journals and found articles that, taken together, made a case for doing what his professors had said was impossible.

Academia was not particularly interested in zero-point energy, but a growing audience, mostly outside of the ivy walls, snapped up the book that King eventually wrote. *Tapping the Zero-Point Energy*, first published in 1989, brought together published theories about the energy and theories about the way that natural systems organize themselves. This book laid the groundwork for the development of coherent theory behind a new source of energy.

#### **From Chaos To Order**

Russian-born scientist Ilya Prigogine won a Nobel Prize in 1977 for showing how certain systems can evolve from random behavior to orderly behavior. This means that entropy, which assumes that all systems become more and more disordered, is no longer the only game in the universe. It means that energy can indeed be seen as a creative force in space, instead of disorganized chaos. This behavior, the opposite of entropy, has since been called negentropy.

In the 1970's, before and after graduation, Moray King started keeping a foot in two worlds, one in the world of theoretical physics and one in the world of the practical tinkerers who in their home workshops were trying to capture a new source of energy. He was introduced to that second world by a longtime researcher who told King about T. Henry Moray and Moray's struggles to capture the unknown energy.

New-energy ideas hit King from all sides after that. At first, he wondered if he was being introduced to a bunch of kooks, but he soon came to appreciate these concepts. He kept asking questions, net-working and presenting papers at conferences on new-energy technologies, and encouraging inventors to come up with a reproducible experiment to prove that the energy present everywhere could be tapped.

of the vibrator. Just an off-centered flywheel will do it. Vibrate the thing.”

“...Those projects that claimed self-running with the gensets, they happened to mount their electrolyzer plates or tubes or - in Eaton’s case - cylinders, on the generator itself. So they were subject to the vibrations of the generator. In the case of Oliver and Valentin, everything was on the cart. The whole cart was vibrating with the motor. Whatever vibrational activity was happening was making more of this cluster gas, just like Ohmasa makes. That’s why they lucked into it. I don’t think they were aware that was an important thing to try - getting that thing mechanically vibrating. Which naturally happens when you’re in a car. But to find the best vibrational frequency...requires some experiments.”

If the experimenter encloses the apparatus in clear acrylic, for the trial-and-error tuning to the vibrational frequency where fog gas is made, the cool fog emerging from the electrolysis will be visible, King says.



## JEANE MANNING

### “TRACKING THE NEWS OF THE COMING ENERGY REVOLUTION” COLUMNIST

*Relentless curiosity, love of Earth’s children and hope for a more civilized future motivate Jeane Manning to learn about energy breakthroughs. She was a newspaper journalist in Canada when she encountered the scene in 1981 and began traveling internationally to interview scientists and inventors. She attended more than 30 energy conferences.*

*Jeane authored *The Coming Energy Revolution* (Avery, NY, 1996); and *Freie Energie* (Omega Verlag, Germany, 2000). Omega Verlag’s *Freie Energie*, the translation of her first book is still in print and so is the French edition, *Énergie Libre et Technologies* (Louise Courteau editrice). She co-authored several other energy books, including *Breakthrough Power* with Joel Garbon. Her books are published in seven countries, and the 2011 edition of award-winning *Breakthrough Power* is being translated into more languages. Most recent is *Revolutionerande Energiteknik*, from Anarchos of Sweden.*

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**[www.ChangingPower.net](http://www.ChangingPower.net)**

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By 1994, King had further refined his ideas.

At conferences, he explained to eager audiences how vortices - whirlpool- or tornado-like spirals found everywhere in nature - held a key to the energy lock. Give a sudden twist to the nucleus of an atom and all its neighbors and keep spinning them, King said, and you may pull some space energy into your electric-generating system. Rotate the spinning materials - a spin upon a spin - and you have a better chance of picking up some extra energy. Then build pairs of counter-rotating vortices into your system, and you would really have something.

*[Author Jeane Manning’s update: Other keys to “cohering the zero-point...” - unlocking that energy - came into Moray King’s view as you see in the accompanying article. He once said he felt his work had come full circle when he published his book **The Energy Machine of T. Henry Moray**. Perhaps the most important years of King’s mission still await him, at the podium of public conferences such as the Global Breakthrough Energy Movement’s, because as a speaker he not only entertains, educates and “works the crowd”, he also inspires.] ■*

King’s proposal for an open-sourced bench-top demonstration project, that could change the world, states in part, “...Only an experiment could prove that excessive energy is being produced.”

“The best demonstration would be a self-running system where a battery is used to kick-start the apparatus, and then it is removed. If the system continues to run itself indefinitely on just water (preferably re-circulated water from the exhaust), the proof of a new energy source would be dramatically demonstrated.”■

#### Note

\* See also the article *Water Alchemy: Harnessing the Power of Cavitation Reentrant Jets* by Mark LeClair in the first issue of PULSE Magazine, Summer 2013.

**“THE CONTROL OF ENERGY  
IS THE CONTROL OF  
HUMAN BEINGS. ONLY  
WHEN ENERGY IS FREE,  
HUMAN BEINGS  
WILL BE FREE”**

*Mark Passio*

“ Never doubt that a small group of thoughtful, committed citizens can change the world. Indeed, it is the only thing that ever has. ”

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