

ISSUE NO.6 • SPRING 2016

# PULSE

GLOBALBEM, BREAKTHROUGH ENERGY MOVEMENT

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# FROM THE EDITOR

In 1980, 35 years ago, I wrote my thesis for the degree in social work. The title read: "Een duidelijker grip op het begrip energie voor het welzijnswerk" (A more clear grip on the concept energy for social work).

The first two sentences of the introduction read: "Energy wastage, energy crisis, alternative sources of energy, energy saving and nuclear energy. All themes which find their way more and more urgently in everyday conversations; at international and governmental level and in the family circle." Today still, the same two sentences apply. The only difference is that the situation is even more urgent, or better, even more dire than at that time.

What has humanity achieved in those 35 years with regard to its energy sources? In fact, what has it achieved in more than 100 years? We still are mainly dependent on Coal, Oil and Gas (and by the way also on wind, the movements of water and the heat and light of the Sun, which have been used for ages already). And today still MainStream scientists, industrialists and politicians focus their attention almost solely on trying to get just a bit more energy and a bit less wastage out of these same sources of energy, spending large amounts of money in the process. The only relatively new energy source is hot nuclear energy, the most polluting and dangerous of all.

It is time, as Mirjam Janse says in her column. It is time to find and free other sources of energy for the benefit of all of humanity. It is time to find our way out of the small box of energy source-thinking, we keep living in.

So, when do we start?

Kees Deckers  
Editor

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# UNDERSTANDING THE COVER UP OF FREE ENERGY



Free energy technology was created perhaps as long  
as a century ago and this same free energy technol-  
ogy has been suppressed, sabotaged and stolen from  
the inventors and groups that have tried to develop  
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that same suppression. There is little appreciation of  
some of the more subtle ways in which the suppres-  
sion takes place.



# ORGONISE AFRICA - THE ONGOING QUEST FOR PARADISE



Friederike and Georg Ritschl have founded Organise Africa  
in 2002 based on their first successful experiments with an  
organite cloudbuster based on Don Croft's design. Since  
then they have undertaken countless expeditions in Africa  
and other continents. The goal of these expeditions was and  
is to counter the destructive energetic influence of cell-  
phone towers, radar installations and more sinister weather  
modifying technologies on our environment and thereby  
end droughts and restore vitality and abundance to the  
areas so treated.



## COLD FUSION - AN IMPOSSIBLE INVENTION

What if there were an energy source that could provide clean water to Planet Earth, zero-emission vehicles with unlimited mileage, a solution to the climate crisis and much more, but that it was blocked, not by Big Oil but by the scientific community. Would that make sense? Much indicates that this is the case with the phenomenon known as Cold Fusion or L.E.N.R. - Low Energy Nuclear Reactions and with Andrea Rossi's Impossible Invention.



## VIBRATING ELECTROLYZERS

It just might be that the popular water electrolyzers can be improved to produce extraordinary energy. The excess energy is not from hydrogen combustion, but is instead sourced from the zero-point vacuum energy. A new perspective on water electrolyzers is offered, which shows why physically vibrating the equipment could dramatically augment energy output. Also a new perspective on the energy dynamics of thunderclouds will be proposed.

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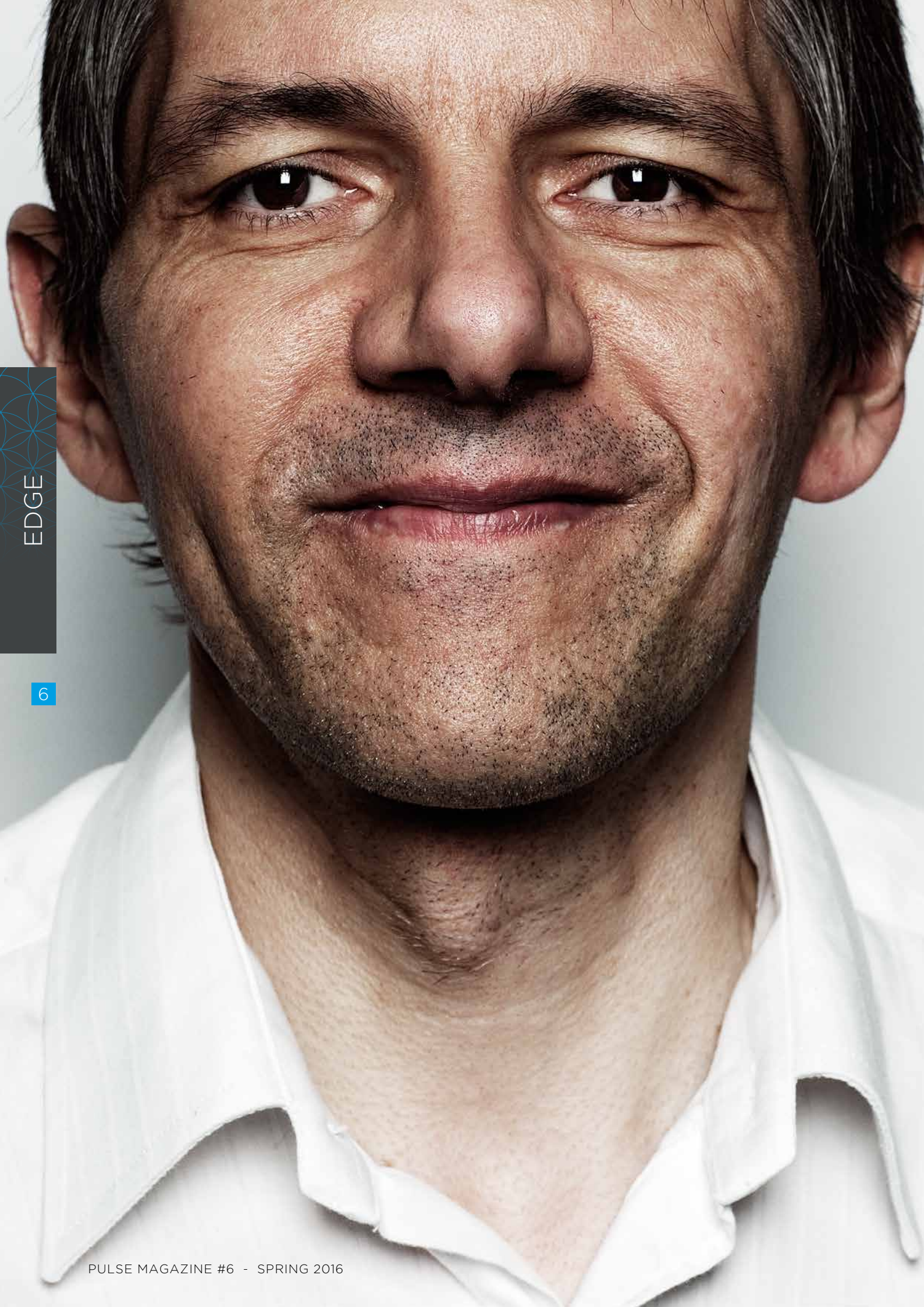
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“ANY BOUNDARY YOU  
FIND IN NATURE IS,  
WITHOUT EXCEPTION,  
A CONSTRUCT OF YOUR  
OWN MIND. LET’S BREAK  
THROUGH.”

*Robert Dupper*

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# UNDERSTANDING THE COVER UP OF FREE ENERGY

- ANDREW JOHNSON -

In November 2012, I was honoured to be invited to speak at the Global Breakthrough Energy Movement Conference in Hilversum. Around the same time, I also wrote a short article for the conference magazine. In that article I asked the question "Do We Have the Energy to Change the World?"<sup>1</sup> The short answer to that question currently appears to be "no," though many look forward to the time when we can answer that question "yes." If we could answer this question in the affirmative, then we would have indeed achieved a global breakthrough in the way energy can be generated. We would have free or very cheap pollution free and fuel-less forms of energy in daily use...

The 2012 conference included many presentations on various energy-related topics which in totality showed that (A) free energy technology was created perhaps as long as a century ago (Nikola Tesla, Nathan Stubblefield etc.) and (B) this same free energy technology has been suppressed, sabotaged and stolen from the inventors and groups that have tried to develop and promote its usage.

## **Growth in Usage of Conventional Technologies**

Since then, there seem to have been some apparently positive developments in the commercial world – such as Elon Musk's Tesla One car<sup>2</sup> and the related battery system (called Power Wall)<sup>3</sup> and certainly in the U.K., we continue to see more and more solar panels appearing on the roofs of houses. Of course, these developments are all based on conventional and rather inefficient technologies (solar panels and batteries are not particularly efficient ways of generating or storing energy). Both these examples are also expensive in terms of the amount of energy they can generate or store per dollar and they require sophisticated techniques and expensive materials in their manufacture. Similarly, in the U.K. and other parts of Europe, we have seen an enormous increase in the number of wind farms in use, which present certain problems of their own. These 3 examples, therefore, are not technologies which I would describe as being "breakthrough energy" technologies.

## **Ongoing Suppression**

I think it can be argued that there seems to have been little change in the wider public understanding of what technologies have been suppressed, but neither has there been much change in the general understanding

within the "alternative knowledge research community" about the extent of that same suppression. There is little appreciation of some of the more subtle ways in which the suppression takes place. Part of this problem is psychological – it is difficult for us to accept that a few of those people who appear to be promoting the use of free energy technologies might also be involved in suppressing or obfuscating certain important knowledge about certain uses of this technology. Further difficulties arise when people like me write about the actions of other individuals (and I also name them) as a way of documenting how the suppression works. However, I just ask the reader to consider the evidence, and what is at stake.

## **Know Thine Enemy**

There is an old saying, "Know thine enemy." And we do have an enemy – we can't be sure exactly who that enemy is. However, it is clear what the enemy does – they suppress, sabotage and attack the work and reputation of those who want to bring forward breakthrough energy technologies. I would argue that not enough research has been done about the way this enemy operates and there is some confusion over who the enemy is able to influence and control (it has become clear to me that the enemy can influence and control certain people in disturbing ways).

The problem comes when one tries to name individuals being influenced and document their actions. One can be accused of "infighting" or perhaps of being "too negative." Nevertheless, if one does not understand the way one's enemy operates then it is far more difficult to develop strategies to defeat that enemy.

There are various methods of suppression, of course. One obvious method is simply to not talk about a topic. You simply pretend it doesn't exist or pretend that the topic has no relevance to what you yourself have been talking about. Another method of suppression is to talk about the topic, but talk about it inaccurately – you misreport certain details, or you change certain terminology about the topic to make it seem less important or less relevant. It is this sort of activity that I have been studying and documenting for several years, now. In discussing some of my findings below, I will be naming certain individuals – though it might sound like some kind of personal attack or "ad hominem," this is not



what I intend – my intention is to suggest where suppression appears to be taking place, so that it can be studied more closely.

### Black Programmes and the Military-Industrial Complex

In the article I wrote in 2012<sup>4</sup>, I highlighted and quoted the words of President Dwight D. Eisenhower in 1961. He warned of the power and influence of the military-industrial complex – and his warning is just as relevant now as it was when he uttered those words in his leaving address, just before President John F. Kennedy was sworn in, over 50 years ago. However, it seems that his warning is one of the topics which is often ignored in relation to the free energy issue. To put this bluntly, if a number of inventors have been tinkering around with equipment and they have been coming up with highly significant inventions for the last 100 years, what has been achieved by groups with nine-digit budgets working in secret, with possible access to what we might call “foreign” technology? For me, that question was answered after I’d studied the events of 911, as revealed by the research of Dr. Judy Wood. It is this set of events and this person which are still largely ignored in the study and discussion of free energy technology. Speaking plainly, it is clear to me that the military-industrial complex knows all about free energy technology, ether physics and what can be achieved with it – indeed they have been working on it for decades and know so much about it, that they have been able to develop it into a working and powerful weapon system. This weapon system was deployed, in a highly precise manner, on 911. This is not speculation, nor is it a theory nor is it a hypothesis – it is the truth. It is this truth that few will talk about and in not doing so they are slowing down, limiting or even preventing the “breakthrough” that is required if we are ever to defeat our enemy. The enemy

uses those ignorant of this truth to further their agenda and maintain their power base. Careers and livelihoods depend on this ignorance and so it is an ignorance which is *not* easy to overcome.

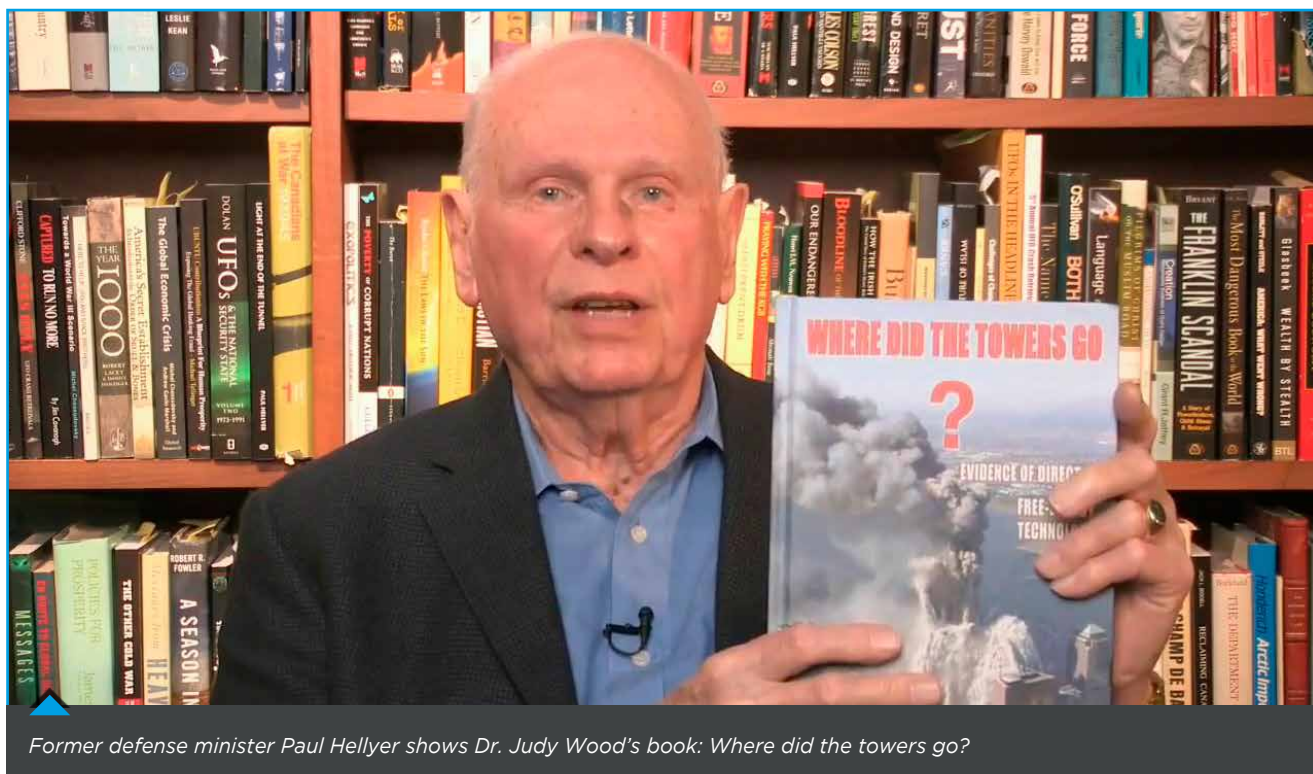
### Talking about the Full Picture

I would define the “Full Picture” here to be the one which includes discussion of weaponised free energy technology, as catalogued in Dr. Judy Wood’s book and on her website. Before I discuss a few of those people who are not talking about the full picture, let me first discuss one person who has attempted to talk about the full picture. That person was also present at the GlobalBEM 2012 conference – the Right Honourable Paul Hellyer<sup>5</sup> – a former defence minister of Canada.

On 18 March 2015, David Whitehead posted a video address by Hellyer<sup>6</sup> entitled *Full Disclosure*. I have been following Mr. Hellyer since late 2005 when he “went public” with his statements about the U.F.O./E.T. cover up<sup>7</sup>, having read Col. Philip J. Corso’s book, *The Day After Roswell*.<sup>8</sup> In his 2015 address, although Hellyer incorrectly states that “some of the W.T.C. buildings had been rigged for controlled demolition,” he goes on to say, at 16:50 into his 2015 address:

*A new weapon of mass destruction was used to reduce the concrete and steel to dust before it reached the ground, if you have any doubts about this, get a copy of Dr. Judy Wood’s book entitled Where Did the Towers Go? – 500 pages of meticulous evidence.*

Out of the many books seen, in the background, in this video, this is the only one that Hellyer holds up to the viewer. I would suggest this is a measure of the book’s importance.



Former defense minister Paul Hellyer shows Dr. Judy Wood’s book: *Where did the towers go?*



Another GlobalBEM speaker that has recognised and understood the weaponisation of free energy technology on 911 is Michael Tellingier. In a talk he gave, he also showed the book to the audience.

### Not Talking about the Full Picture

The previous section in this article entitled “Talking about the Full Picture” is mainly copied from an article I posted in May 2015 entitled *Paul Hellyer Begins to Break the Taboo Of Disclosure*.<sup>9</sup> In this same article, I discuss statements not made by several researchers who are well known in the “alternative knowledge” community. Almost two years ago, in June 2014, another conference took place in San Mateo California. This conference featured presentations by Richard Dolan, Joseph P. Farrell, Mark McCandlish, Michael Schratt and others. One of the areas covered was secret technology (though this wasn’t specifically in relation to free energy, it seems churlish to deny the link between secret technology and “free energy” technology – which to me, at least, was amply documented in Steven Greer’s “Disclosure Project” almost 15 years ago). Despite several opportunities, none of the main speakers discussed what happened to the World Trade Center on 911 and they made no reference to the Secret Technology which has been weaponised and was used on that day. This was particularly odd in the case of Joseph P. Farrell, because his presentation did discuss Cold Fusion – which Dr. Judy Wood also discusses in her book: *Where Did the Towers Go?*.

### Tritium and Cold Fusion

I would like to talk a little more about an energy phenomenon that became incorrectly known as “Cold Fusion.” It was a highly significant discovery in the 1980’s where, in a fairly simple chemical cell, anomalous or “excess” heat was repeatedly generated in significant quantities (the anomalous energy output was not seen in every experimental “run”). It was initially posited that the energy came from a “room temperature” fusion reaction. In common with many “free energy” discoverers and or inventors, the two chemists, Stanley Pons and Martin Fleischmann did not experience “positive career development” following their revelations in 1989. They did not coin the term “cold fusion,” indeed, they did not even like this term. They preferred a term such as “Low Energy Nuclear Reactions” (L.E.N.R.) or “Chemically Assisted Nuclear Reactions” (C.A.N.R.). The term “Cold Fusion” was coined by none other than Steven E. Jones and his colleague Paul Palmer. It is important to note that Dr. Steven E. Jones also published research (later shown to be disingenuous)<sup>10</sup> relating to the destruction of the W.T.C. on 911 – indeed, he even discussed this in 2005 with Dr. Judy Wood. I have written more about this important matter in an article called *9/11 and Cold Fusion – a Possible Attempt to Rewrite History?*<sup>11</sup> I mention this here specifically because Dr. Steven E. Jones was also a friend of another GlobalBEM speaker, who appeared at the 2012 conference (and the subsequent 2013 conference), namely Sterling D. Allan. If one watches Dr. Judy Wood’s 2012 presentation in full, one can witness Sterling Allan’s statements near the end,

with regard to his friendship with Dr. Steven E. Jones. Allan stated, with some concern, that he intended to discuss what he had seen in Dr. Wood’s presentation with Dr. Steven E. Jones.<sup>12</sup> He said:

*I wanted to make the point that Dr. Steven Jones lives in a neighbouring town of mine [in Utah]... I’ve got a very high connection with him... And what I’ve learned today and yesterday about Steven Jones is very troubling to me and basically that he plays the role of a decoy of... “don’t look here type of thing” and the reason that that’s important is because he has this evidence and he has not gone with it. To me it’s blatantly obvious. So I commit to you that I will sit down with my good friend Steven E. Jones... with this book in hand and say “Steven, why don’t you go with this story because it is very very obvious” and I will then report on my conversation and I will either explain where the “mental disconnect” is on his part that “he didn’t see this, now he does”... or that he is indeed the decoy and he is trying to divert attention, as a government plant to get us to look the other way and not see something that we should be seeing that she [Dr. Wood] pointed out.”*

It was of great interest to me, then, when I found out that Sterling Allan had made a new posting on his website<sup>13</sup> less than 1 week after the GlobalBEM 2012 conference. Allan’s posting included a letter from Dr. Steven E. Jones – about L.E.N.R./Cold Fusion (which Jones had given a presentation on in October 2012). In the letter, Jones repeats false statements about Pons and Fleischmann’s research. In Allan’s posting, there is no reference to his concern about the connection of “Cold Fusion” phenomena to the events of 911. Neither is there a reference to any conversation he had with Dr. Steven E. Jones about Dr. Judy Wood’s book or the 911 evidence contained therein. Indeed, Allan later became somewhat hostile towards Dr. Judy Wood in relation to these matters. I have written this up in more detail in an additional article entitled *Chilling Out about 9/11 With Sterling D Allan and Steven E Jones*.<sup>14</sup>

### Interlocking Deception

In the 2012 article that I wrote for the B.E.M. Conference magazine, I referenced the words of the (now deceased) free energy inventor Bruce DePalma in describing his encounter with alleged moon walker Dr. Edgar Mitchell. Mitchell was the founder of the Institute of Noetic Sciences (I.O.N.S.) – one of their interests being free energy technology.

Careful study of the evidence relating to the Apollo programme reveals a deception of enormous magnitude. Edgar Mitchell, perhaps unwillingly, or because of more complicated circumstances than may be immediately obvious, has played his part in this deception. In 2013, he appeared in the extended version of a B.B.C. documentary called *The Secret Life of Uri Geller* and he admitted that in the 1970’s, he worked for the C.I.A. It seems that immediate members of his family were aware of this. At the end of a different interview filmed some years ago by Bart Sibrel, after Sibrel had

confronted Mitchell with some of the evidence of the Apollo deception, Sibrel is almost “ejected” from Mitchell’s house and then makes a hasty retreat to his car. As Sibrel is leaving, we can hear that Mitchell still has on the radio microphone with the camera still rolling. Mitchell is heard to say to his son (who has joined in the exchange):

*You want to get a gun Adam and we can shoot at him before he leaves ...*

As Sibrel and his cameraman are getting into their car, the radio microphone is still recording and Mitchell’s son is heard to say:

*Want to call the C.I.A. and have them waxed?*

It seems very clear to me that a very dark side of Mitchell’s background is revealed in this brief and disturbing clip. Again, I have written more about Dr. Mitchell in yet another article called *Will The Real Edgar Mitchell Please Step Forward?*<sup>15</sup>

### Accentuate The Positive?

For approximately the last 9 years, I have been documenting how various people have been acting to keep certain truths covered up. Some have argued that this documentation process is a “negative” sort of activity – it is easy to see why such a view is held. However, as I wrote above, it is important to “know thine enemy.” I have to point out that making false statements and misrepresentations about, or minimising the importance of, the research and expertise of other people is not conducive to finding the truth about such things as free energy technology. Understanding that key people in the so-called “free energy movement” have either been doing just this, or they have been adopting a “limited hangout” position, has helped me to see one important reason why we don’t have general usage of free energy technology. Perhaps some people feel that it is too negative to talk about the weaponisation of free energy technology and they would rather “accentuate the positive” and raise people’s hopes of cheap, free and clean forms of power. However, it is quite clear that the enemy has the ability and resources to restrict all access to such technology, and one way that they do this is by infiltrating those groups that are promoting knowledge of these technologies. In the last 12 years, I have seen repeated statements suggesting that “general usage” of free energy technology is “just around the corner.” The reality is that the group that suppresses this technology is still powerful – because it is rarely studied and its weaponry and strategies are therefore poorly understood. The enemy remains very well hidden. My hope, therefore, is that by revealing one or two of the suppression techniques and strategies used by this hidden group – as well as pointing out the capabilities of the weaponry they possess, their powers of deception will be weakened in some small way and we will be “psychologically stronger” and more quickly able to make an unstoppable “global breakthrough”, some time in the future.

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11. [http://www.checktheevidence.com/cms/index.php?option=com\\_content&task=view&id=389&Itemid=60](http://www.checktheevidence.com/cms/index.php?option=com_content&task=view&id=389&Itemid=60)
12. <https://www.youtube.com/watch?v=TwFhdqdMqo&t=2h11m40s>
13. [http://pesn.com/2012/11/19/9602225\\_Steven\\_Jones\\_replica--Pons\\_and\\_Fleischmann\\_XS\\_Heat\\_not\\_from\\_fusion/](http://pesn.com/2012/11/19/9602225_Steven_Jones_replica--Pons_and_Fleischmann_XS_Heat_not_from_fusion/)
14. [http://www.checktheevidence.com/cms/index.php?option=com\\_content&task=view&id=382&Itemid=60](http://www.checktheevidence.com/cms/index.php?option=com_content&task=view&id=382&Itemid=60)
15. [http://www.checktheevidence.com/cms/index.php?option=com\\_content&task=view&id=413&Itemid=63](http://www.checktheevidence.com/cms/index.php?option=com_content&task=view&id=413&Itemid=63)



## ANDREW JOHNSON

*grew up in Yorkshire, England and graduated from Lancaster University in 1986 with a degree in Computer Science and Physics. He has mainly worked in Software Engineering and Software Development, for most of the last 20 years. He has also worked full and part time in lecturing and tutoring (in Adult Education). Now he works for the Open University (part time) tutoring and assessing students, whilst occasionally working freelance on various small software development projects.*

*He became interested in “alternative knowledge” in 2003, soon after discovering Dr. Steven Greer’s Disclosure Project. He has written a book about the research of Dr. Judy Wood called 911 Finding The Truth. An electronic version of this book is available free from his website at:*

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



# ORGONISE AFRICA – THE ONGOING QUEST FOR PARADISE

- GEORG RITSCHL -

## Introduction



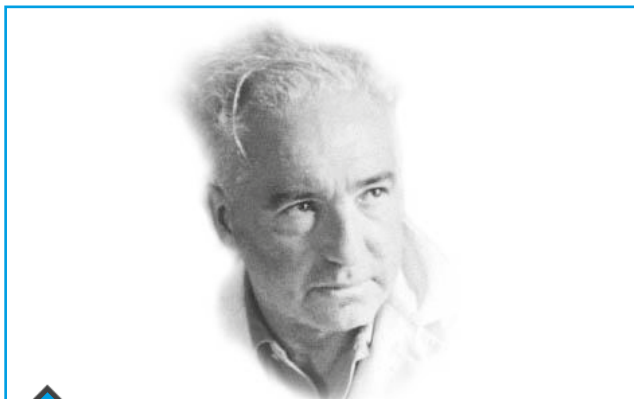
*Friederike and Georg in Botswana 2012*

Friederike and Georg Ritschl have founded Orgonise Africa in 2002 based on their first successful experiments with an orgonite cloudbuster based on Don Croft's design. Since then they have undertaken countless expeditions in Africa and other continents.

The goal of these expeditions was and is to counter the destructive energetic influence of cellphone towers, radar installations and more sinister weather modifying technologies on our environment and thereby end droughts and restore vitality and abundance to the areas so treated.

## What is orgone?

Orgone is the name, Dr. Wilhelm Reich gave to the all pervasive life energy that he surmised to be the foundation of the visible world, similar to the more ancient concepts of the ether that are presently resurgent in the scientific debate as well (Nobel prizes are won these days with new ether theories).



*Dr. Wilhelm Reich*

The concept of orgone as a "living ether" is closely connected to the possibility of what is commonly called "free energy". Orgone is an an-entropic, creative force. It is the explanation why life is possible.

Conventional science, on which essentially our whole civilisation is engineered, understands only entropic processes, i.e. processes where complex matter is destroyed in order to liberate energy while reducing the complexity of the "fuel". Our burning of fossil fuels is the prime example of this. Life operates in the opposite direction "through some unknown force" (orgone) assimilating primary building blocks like minerals, oxygen, water and others into the most complex and amazing living beings. In short: Entropy is the process of reducing order in the universe to liberate energy (=destructive) while disentropy increases order. That's the process of life. Both are inherent in the natural order as expressed in the Chinese concept of Yin and Yang, the eternal cycle of birth, life, death, decomposition and assimilation into new life.

True to George Orwell's *1984*, where the author demonstrates how by restriction of language, thought can be limited, the language of descriptive mathematics used in engineering only allows the engineers to quantify entropic processes. Hence only machines that destroy energy can be conceived.

That may be the reason why most "free energy" inventions have been stumbled upon by intuitive tinkers or practical hands-on engineers, not by highly trained scientists.

Scientists are severely limited by the common understanding of the "second law of thermodynamics" which seems to prohibit any kind of "perpetuum mobile". In their view, the universe was started by some mysterious "big bang" that provided the initial force for an ever expanding universe. However, in the entropic universe, all movement must eventually come to a halt when all energy is dissipated and all life and motion has ended. This is a severely depressive thought that already troubled me in high school when the idea was first introduced in physical science classes.

The adherents of this depressing world view have so far failed to reveal where the initial energy for the big bang came from, which is probably the most fundamental flaw of this hypothesis. While pretending to be all rational and coldly scientific, they introduce major mysticism at this point.

### An obsolete belief system

In general, it turns out that much of modern science is just as much a belief system as many that went before. Let's call it "scientism", or the belief in the absence of a conscious, creative energy, or if you want to call it that way, the absence of a realm of the divine.

It has served us well for a while in order to develop our material civilisation, but its inherent flaws-of-thought are also responsible for the destructive aspects of our civilisation that are so aptly felt these days by a growing number of people on this planet.

Nowadays people in the scientific community who do not adhere to this tyrannical belief system are not burnt on the stake but subjected to the ridicule and censorship of their peers.

Suddenly all avenues of career advancement close, funding dries up, nobody wants to talk to them any more. Ask Prof. Dr. Turtur about it, if you have any doubt that this type of censorship against challenges to the official "scientist" belief system really exists in the 21st century.

As a result of this, the revolution is happening outside the highly funded world of academia. It is happening here, where we are. For example at Global B.E.M. conferences or in this very magazine.

### The History of Orgone: Wilhelm Reich

Dr. Wilhelm Reich was born in 1897 in Austria. After the First World War he studied medicine in Vienna and soon gravitated towards the new and then revolutionary psychoanalysis of Sigmund Freud. He became a close collaborator with Freud and a member of Freud's inner circle that attended regular meetings in Freud's house to discuss the latest theories. At that time, in the early 1920's, he was one of the pre-eminent members of the young psychoanalytical association. Soon though, the development of his thought led to a growing alienation between himself and Freud and the more orthodox psychoanalysts.

While Freud, like Wilhelm Reich, was looking for the origin of neurotic behaviour and psychosis in early childhood trauma and the suppression of sexuality, this remained mostly abstract in Freudian therapy. For Reich, it became more and more evident from his clinical work with patients that this blocked memory of traumatic stress had its somatic expression in permanent "habitual" muscular tension that was strangling the life energy of the neurotic person. He called this virtual shell of permanently tensioned musculature "the body armour" and started to work on it directly in his therapy sessions with patients, using direct physical manipulation of the patient and breathing techniques. Whenever he achieved a breakthrough in loosening a part of the armour, he observed that the traumatic memory contained in the respective muscular spasm was set free as well.

Reich observed that only a healthy and unarmoured person can experience a full orgasm, the ultimate mobilisation and release of life energy in any living organism. These observations of what I'd like to call the "psychological Reich" were most prominently developed in his

two books *Character Analysis*<sup>1</sup> and the *The Function of the Orgasm*.<sup>2</sup> The restoration of a person to full orgasmic potency became Reich's therapeutic aim in the 1920's and 30's, thereby picking up the thread that Freud had woven, but not followed to the end. This gave the somatic foundation of the psyche concrete meaning, where Freud had become evasive and finally fled into the mystical concept of "Eros and Thanatos", Freud's poetic sublimation of what Reich was later to name POR and DOR.

Wilhelm Reich had sought to understand the genesis of neurosis and what he called the "pestilential character" of fully armoured man in the context of an oppressive and exploitative society. This led him to a very leftist political position in the 1920's and 30's. He was for a long time a member of the German Communist Party. However, orthodox Communism did not really reciprocate his embrace and in the later American years he was to see international communism as the red fascism that it really was.

From this body-oriented work, his research, driven by an insatiable curiosity and a deep belief in the power of his mind to progress gradually towards an ever-better understanding of the true nature of the universe, arrived at the discovery of what he was to name orgone energy.

His research into cancer, which he consequently described as the result of energy blockages due to the permanent contraction of the muscular "armour", led to a groundbreaking discovery. He found that tissue cells of healthy patients had a faint blue radiance while those of cancer patients seemed to have a grey emanation. This was the threshold to the discovery of orgone.

An important step in the discovery of orgone energy was Reich's "bion" research, which started around 1939. Using very strong optical microscopes, he found "bubbles of energy" in sand and other "non-living" matter. It is noteworthy that around that time optical microscopy had reached an absolute peak in its development. The later advent of the electron microscope made that technology wither away. It is therefore no surprise that modern researchers have difficulty replicating Reich's findings, because an electron microscope can only be used to look at "dead" probes. Reich's findings were based on the observation of living organisms and the living energy he called orgone under extremely high optical resolutions of about 4,000x.

He had a lot of this documented on film but unfortunately, when his archive was raided by the infamous F.D.A. (Food and Drug Administration of the United States of America) in conjunction with other agencies, these invaluable documents were "lost".

These energy bubbles, or bions as he was to call them, behaved like primitive life forms: they pulsated, expanded and contracted and moved about like single-celled organisms.

When pouring a sterilised infusion of hay, he found that primitive life forms, amoebae and protozoa were forming from this organic yet totally sterile solution.

Wilhelm Reich had discovered nothing less than the genesis of life.



Modern theories speak of morphogenetic fields as energy fields that have form-building power. His experiments were successfully replicated and verified by the then very well known researcher Roger du Theil at the Sorbonne University in Paris, France, and his team.

This monumental discovery alone would warrant more than a book to be written about, but unfortunately I can only mention it in passing, and encourage you to read about it in Reich's original publications, as far as they are still accessible.

The way Reich observed it, orgone is omnipresent, and the basis of all life processes. He observed the same principle in the forming of galaxies, as on a cellular or macro-biological level.

His earlier research into psychological disorders had shown him that when this energy is blocked by traumatic memories, manifesting in constant muscular tension (he called that armouring), this energy becomes Deadly Orgone or DOR.

As the environmentally threatened world, we have created, over the last few hundred years, is only a mirror of our upset and unbalanced collective psyche, the same principle applies environmentally. One could say the growing deserts on this planet are an expression of the "deserts in our heart".

Wilhelm Reich, who also deserves credit for inventing the first cloudbuster (C.B.), demonstrated the working of DOR in the forming of deserts and developed a method to disperse DOR concentrations by grounding them into sufficiently large water bodies.

Whenever the atmosphere feels stale, oppressive or dead and when you observe a particular blackness in cloud formation you are in fact experiencing a high and unhealthy DOR concentration.

Reich successfully experimented with orgone accumulators to cure cancer patients, as he observed cancer to be a biopathy, resulting from the blocked life energy in a highly DOR infested body.

He observed that the accumulation of orgone was stimulated by a layered combination of organic and metallic material.

Reich used some type of soft board and sheet metal to build man-sized boxes, into which the patient would go. While the results were quite staggering, Reich's devices had one decisive shortfall: They accumulated whatever energy type (DOR or OR) was present in the environment. This was all fine in the remote part of the U.S. where Reich had his Orgone Institute in the 1940's and 50s', but in an even more DOR polluted environment such as we have today, this may be outright dangerous. All Reich's contraptions always had to be handled with care.

By saying this, I'm not trying to diminish Reich's pioneering research or his integrity as a scientist. The opposite would be true. Orgonite has certain qualities that Dr. Reich did not foresee and a lot of fear that's being



*Deserts of the heart - deserts of the planet*



*The classic: Wilhelm Reich with one of his cloudbusters some time in the 1940's*



*Reich style orgone accumulator (Orac) and orgone shooter*

generated by more orthodox followers of Reich, does not take these empirical findings into account. It seems that every great man or woman inevitably and unwillingly creates their own orthodoxy, almost as if it was a systemic reaction to slowly grind down the revolutionary impulse that has been generated by such people.

### **Orgone science brought to street fighting level: Don Croft and the Orgonite gifting network**

Don Croft is an independent researcher and inventor who lives in Idaho, U.S.A. Among many other inspirational deeds, he can take credit for having made the step from orgone accumulator to orgone generator. Based on the findings of inventor Karl Welz, who found out about the potential of a matrix of metal filings suspended in polyester resin to convert negative DOR into POR, he started experimenting with a new type of "cloudbuster".

Karl Welz is most probably the inventor of orgonite; at least he has used the name first. His website at the time of this writing is [www.orgone.net](http://www.orgone.net). His interest was mostly in radionic machines, that is intent-amplifying apparatuses. His machines are apparently quite powerful. It was Don's innovation to start using this mixture for environmental healing tools that would positively affect large areas.

Wilhelm Reich's cloudbuster (C.B.) had relied entirely on the resonant cavity effect, whereby the stagnant energy would be drawn into an array of large parallel pipes, directed at the sky and then preferably grounded into a large water body. In order to achieve a revitalisation of a DOR-infested sky, the operator had to skilfully sweep the sky, to create movement in the stagnant fields of dead energy. Because of the amount of negative energy that could be attracted to the Reichian C.B., operating it could be hazardous for humans and great care had to be exercised. The Don Croft orgonite-C.B., on the other hand, is much smaller, hence cheaper to build and the main innovation is that the pipes, preferably made of copper, are inserted into a base of orgonite, which automatically starts converting the DOR to POR as soon as the C.B. is put together. Based on this revolutionary observation, a whole range of other devices were developed by Don and other members of the growing network of experimenters, such as the compact conical orgone converter, called the "Holy Hand Grenade", the disk shaped "Tower Buster" for neutralising the ubiquitous microwave transmitters that are a main source of DOR in our environment (more about those later), and a host of other tools derived from these basic ones.

The addition of quartz crystals allowed the energy thus created to be projected at an even much wider field. It is important to note one big difference between the orgonite based devices à la Don Croft and the classical orgone technology of Wilhelm Reich.

The difference is that the Croft technology is absolutely foolproof and always positive in outcome. A lot of people who have gained a bit of knowledge in the classical Wilhelm Reich research and technology are not aware of these important differences and create needless fear. Orgonite has been used by thousands of people

worldwide, who have reported positive and lasting changes in their environment.

### **The gifting network and the basic tools of the orgonite gifter**

From Don's research and experimentation emerged what we would like to call in his words "the informal orgonite gifting network" (he doesn't want to call it a movement because that smacks too much of a cult with a leader etc..) which is centered around the website [www.ethericwarriors.com](http://www.ethericwarriors.com)

Members of this informal and unorganised network are working on various levels and with different intensity to help turn around the etheric state of our planet. That is done by neutralising the negative, stagnant energies emanating from cellphone towers and other technical sources of hard radiation (military and civil) as well as placing orgonite at places of human suffering through mass murder, human sacrifice or other negative occult dealings. In the last years placing orgonite in large water bodies (oceans, rivers) has emerged as an efficient way to infuse large regions with positive energy.

The result: General revitalisation of nature, return of natural rainfall patterns, unfathomable consciousness effects. Anecdotal evidence points to the fact that orgonite promotes a cooperative, constructive atmosphere among people. That's why we keep gifting military and government institutions, religious sites, corporate headquarters and various other places with an impact on the direction human society takes. You can make no mistakes there. Orgonite does not take sides, it uplifts general energy levels, regardless of people's political or religious persuasions.

### **These are the 3 basic tools for environmental healing work:**

#### *1. Tower Buster*

The Tower Buster (T.B.) is the standard ammo for all applications in the life of an "orgone guerrilla". It can be used in any place where negative energies need to be revitalised.

Originally devised for neutralising cellphone towers, it is great for water gifting, busting of Masonic halls, police stations, prisons, ritual murder sites, soiled natural



Typical Tower Buster



energy vortices, battlefields, concentration camps, cemeteries, churches, radio and T.V. stations and other places where daily indoctrination and mind control take place. Put a few around your house and garden as well as on your T.V. screen, computer monitor, electrical and water inlets.

The Tower Buster shown here is made in simple muffin form and weighs approx. 3-4 oz. (100-120g).

Plastic cups can also be used, or almost anything else that will hold a bunch of metal shavings and some resin until it is set.

The crystals used here can be of low grade and breakage is absolutely fine. We also put amethyst and often pyrite dust inside, as that makes the energy stronger.

One or 2 T.B.'s hidden near a normal microwave tower will normally be enough to neutralise it with visible and instantly noticeable effects.

Either dig it in with a small garden shovel or find a nice undisturbed hiding place. The environment will say "Thank You".

It is really a universal tool! We have probably distributed more than 20,000 of them on our various expeditions all over Africa alone. The effects are just amazing

## 2. The Holy Hand Grenade



The Holy Hand Grenade (H.H.G.)

The somewhat warlike name, "Holy Hand Grenade" (H.H.G.), is borrowed from *Monty Python and the holy grail*. An H.H.G. is the perfect, personal orgone generator for house and garden, but can also be used to revitalise natural vortices or neutralise strong DOR emitters in the environment.

It is made from an orgonite cone, and has 5 crystals to draw in and diffuse energy.

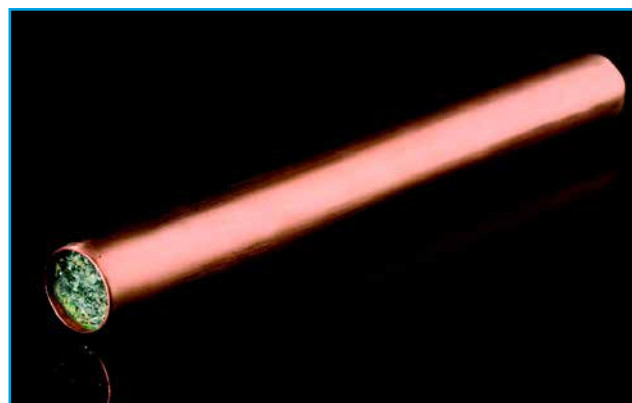
Four crystals are placed in a cross formation at the bottom (tips pointing outward, if single terminated), and one in the top, pointing upward. Originally the H.H.G. was designed to neutralise microwave towers as well, but it was soon found that for most simple microwave towers, much less is needed and since there are so many of these towers, we have to use our resources sparingly.

A Holy Hand Grenade is very powerful. We have had strong visible effects by placing 2 of them at more than a 2 kilometre distance from an inaccessible mountain top array in Uganda.

## 3. Earth Pipes

Earth Pipes are a more recent addition to the arsenal. Their main purpose is the neutralisation of threats from underground. Whether you believe in aliens or not is up to you, but there's a lot of DOR already coming out of the underground military installations of your own government.

The Earth Pipe is a hollow copper pipe, approx. 13" with a 5" orgonite plug. A single terminated quartz crystal with a special coil is inserted, pointing from the plug towards the hollow end.



Earth pipe from Orgonise Africa

The pipe is driven into the soil with the hollow end pointing downward.

Wherever you notice particularly nasty energies and there is no visible source for that above ground, caution demands hammering a few Earth Pipes into the ground. They are ideal for infusing geopathic stress lines with positive energy.

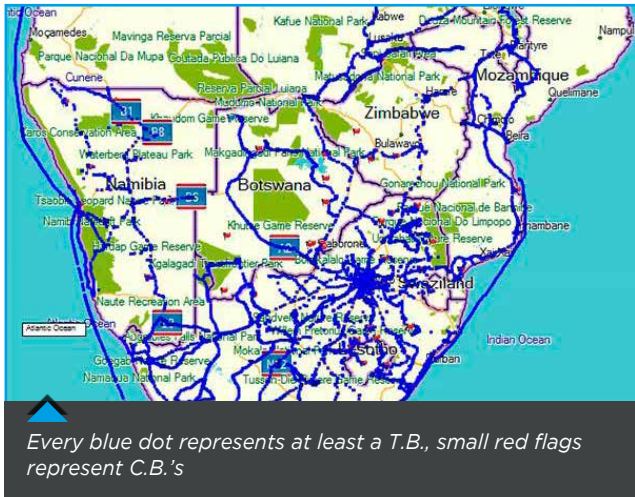
### Orgonise Africa's gifting work in Africa

Orgonise Africa has raised the art of massive gifting of large areas to a new level, by systematically covering large parts of Southern Africa with orgonite by land air and water. We therefore present the sum of our experiences as the body of evidence for orgonite's efficacy.

Over the last 13 years we have systematically placed more than 20,000 small orgonite devices (Tower Busters, Earth Pipes and others) and approximately 60 orgonite Cloud Busters in Southern Africa.

**"THE UNIVERSE IS  
INVITING US TO BECOME  
BREAKTHROUGH ENERGY  
HUMANS WITH THE  
CAPACITY TO ALCHEMIZE  
THE DARK VACUUM INTO  
STARLIGHT"**

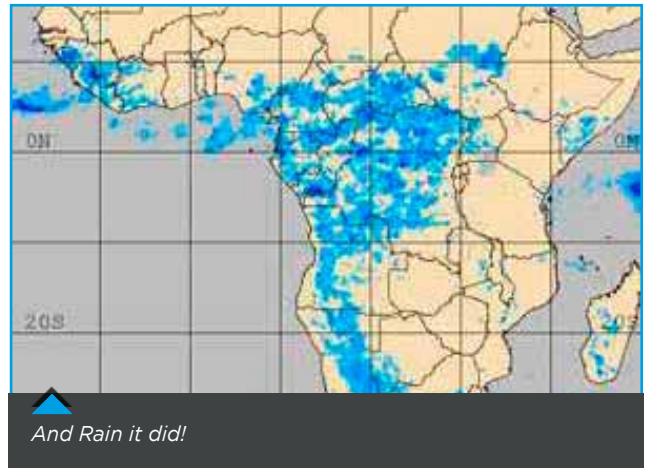
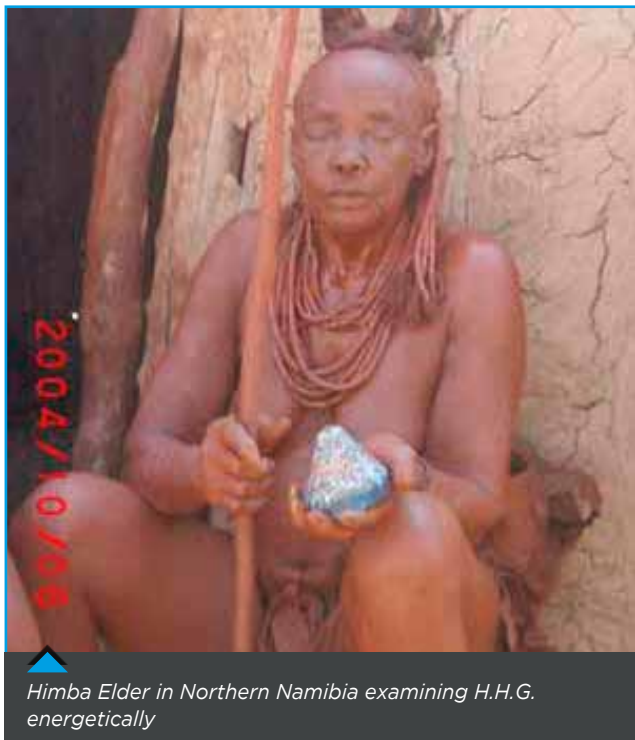
*Fernando Vossa*



### A classic example: Operation Desert Rain - Namibia Sept/Oct 2004



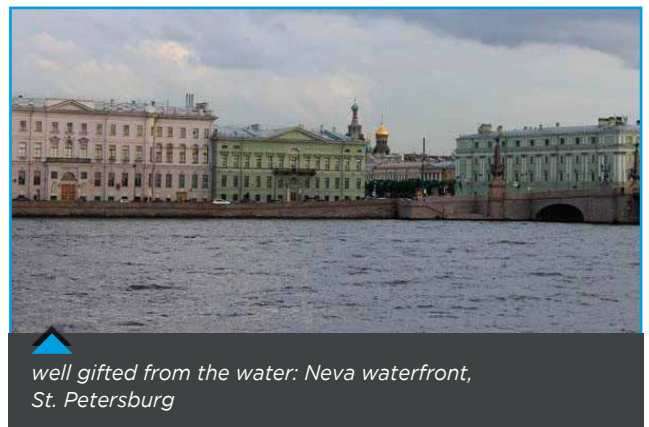
The few harmless looking blue dots are the result of an excruciating 11,800 km expedition in September 2004, where we placed about 1,100 T.B.'s several H.H.G.'s, etheric sticks and 5 C.B.'s all over Namibia.<sup>3</sup>



And rain fell over Namibia after our Expedition

### Latest Exploits: To Russia with Love!

As a reaction to the growing tension between U.S. led N.A.T.O. states and the Russian Federation, we have undertaken a cruise on the Baltic Sea end of July 2015 in order to heavily gift this important water body, the connection between Russia and Europe. Orgonite works on a consciousness level as much as on a biological vitality level. These realms are closely connected. Embarking on a commercial cruise of the Baltic allowed us to deploy some 300 T.B.'s in comfort, connecting the Cities of Kiel, Tallinn, St. Petersburg, Helsinki and Stockholm with a string of Orgonite. The above cities also got their share of strategic gifts as much as the short duration of visits allowed.







H.A.A.R.P. over Helsinki

### Immediate confirmation:

Just days after we did our gifting of the Baltic Sea with approximately 300 T.B.'s from Kiel to St. Petersburg, a group of Bottlenose Dolphins entered the Baltic.



Map of dolphin sightings

Apparently they entered the Baltic Sea on 30 July when we were on our way back from St. Petersburg, near Stockholm. They were then seen near the bay of Gdansk and caused quite a stir in Poland.

Countless times before and by many other gifters it

has been observed how energy sensitive and conscious dolphins are. They just love orgonite and what it does to their marine environment.

And can you believe it, this is the first time dolphins have been seen in these waters since the 19th century, more than 115 years ago!

We shall not be astonished about sudden and surprising shifts in perceptions and the relation between Russia and the West. More work along those lines will need to be done. Orgonite can play a major role in ending the various conflicts on this planet. Our Kenyan and Ugandan friends have demonstrated that in Southern Sudan, Eastern Congo and Somalia.

### Resources for further reading:

- More expedition reports: <https://www.orgoniseafrica.com/orgonite-gifting-safaris>
- Orgonite proof in pictures: <https://www.orgoniseafrica.com/orgonite-proof>
- Orgonite proof through plant growth experiment: <https://www.orgoniseafrica.com/orgonite-plant-growth>
- Information hub of the orgonite gifting network: <http://www.ethericwarriors.com>

### Notes

1. Reich, Wilhelm, Charakteranalyse - Technik und Grundlagen, originally written in German, translated into English, publisher: Farrar, Straus and Giroux, 1933.
2. Reich, Wilhelm, The Function of the Orgasm (1942). Deutsches Original: Die Funktion des Orgasmus (completely different from the same book title in 1927), Kiepenheuer & Witsch, Köln 1969.
3. For the full article, see: <https://www.orgoniseafrica.com/desert-rain-namibia>.



## ABOUT THE AUTHOR

### GEORG RITSCHL

#### FOUNDER OF ORGONISE AFRICA LARGE SCALE ORGONE ENERGY HEALING PROJECT

*Dipl. Ing. Architect Georg Ritschl is the founder of the large scale energy healing project Orgonise Africa. ([www.orgoniseafrica.com](http://www.orgoniseafrica.com)) based in South Africa. He has done his orgone work in more than 10 African (and some European) countries with often stunning results. Reversal of droughts, greening of deserts, increased rainfall, plantgrowth and human and animal health are the results of this work undertaken by Ritschl, his wife Friederike and a group of friends and associates. Ritschl also explores the connections between the idea of orgone energy and the new emerging scientific paradigm underlying our emerging understanding of the NEW PHYSICS, as well as the effects of Orgonite on consciousness and human behaviour, thereby putting his work in the wider context of the Breakthrough Energy Movement. Ritschl sees himself as part of a world wide network of loosely connected activists and experimentors from all over the globe sharing in the exploration of a simple but effective technology that has always been kept "open source", allowing it to be adopted all over the world.*

**Website: [www.orgoniseafrica.com](http://www.orgoniseafrica.com)**



## INFORM AND STAY INFORMED WITH PULSE MAGAZINE

Having organized two conferences, one in Hilversum, The Netherlands, in 2012 and one in Boulder, Colorado, in the U.S. in 2013, the non-profit organization GlobalBEM, Breakthrough Energy Movement, keeps working on its primary goal: Building a platform to facilitate the widespread awareness and use of Breakthrough Energies and Breakthrough Energy Technologies.

PULSE Magazine is a frontier science publication. It is a medium for scientists, researchers, academics, activists and anyone interested in Breakthrough Energy. The magazine informs its readers about the latest news, ideas, and any important developments concerning the development of B.E. devices. Other topics discussed in the magazine are the social, political, economical, educational and spiritual impact of these new technologies. The magazine offers a free space to bring inventions, theories and ideas on the subject of Breakthrough Energies. It gives the public the opportunity to get informed about new energy possibilities and their implications for our future, as well as the opportunity to discuss and comment on them.

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2. **Humanity and his energetic field (medical, health, communications);**
3. **Social changes that will (or should) result from adapting these new B.E. Technologies;**
4. **The history of Breakthrough Energy, highlighting old - and maybe partly or completely - lost technologies and promoting rediscovery;**
5. **Exposing fraud, bogus claims and disinformation related to Breakthrough Energy;**
6. **News and topics (what's hot);**
7. **Artwork in the field of B.E.**

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# GOOD TIMING

- MORGAN/MIRJAM JANSE -

It is time to lengthen your nose and stick it into matters that never caught your attention before! It is time to let the fluids in your brain run from left to right and back, just to refresh your sense of timing and allow yourself to be inspired in an unexpected way. It is time to create the turning point, instead of sitting tight and wait for the turning point to happen.

The world needs those who did the research on energy to step out and talk about the possibilities of working with self-generated energy. Others, too, long to be urged, be fueled and be alighted to do something creative. They will hear you when you speak out!

Now is a good moment to move beyond the boundaries your ego set in the first place. And secondly, to move beyond the insane restrictions you have been forced to submit to by governmental regulations, since the last world war. It is time to focus on building bridges, instead of continuing the production of goods that only demonstrate your ingenuity.

It is time to let the true meaning of free energy be your device, your motto. And it is time to let the ones that have never heard of free energy know what it means, what it generates. Get to know the full meaning of space, of time. Know that self-indulgence is not the way to go, if, in the near future, you want your children to be well educated, healthy, wise and have trustworthy friends. It is time to let go of the mere fact that you can build devices that produce more energy than you put into them, it is NOT what the future is about.

We know there is much to be said for a good story on free energy, but, as we stated before, there is no "free" energy. For there is no "space". There is only substance of a certain frequency that resonates with substance of another frequency and so causes a current from one to the other. Too simple? Maybe. Maybe not.

Trading goods has always been a good way to get to know other cultures, people, ways of living. Interestingly enough, trading goods changed into trading information. As a result, the trader lost the natural ambition to enhance the value of his products. Remember you can heighten the value of goods with awareness or empathy for the ones receiving? Trading has become equivalent to making money out of empty promises. What got lost is the intangible value that came with trading goods and services in person.

Yes, you can still find places, where the added values of a product are held in high regard. The teacher who teaches math, and also educates a child how to be respectful and feel responsible for the well-being of others. The craftsman, who sells a chair only when his passion for his work shines through. The cook who prepares food with full regard and an eye for the sustainability of natural sources.

We are under pressure and time is running out it seems.

It is time to bridge the gap between the producers and the researchers, the individual and the masses and the presentation of devices at a friendly and groundbreaking conference and the newspaper sold on Saturday morning, to be read in bed on Sunday. "Time is on my side", sang Mick Jagger in 1964. Is it still? Round about the same year Bob Dylan sang: "Times are a changin'", and he might have expressed something he saw coming. Are we about to let the tipping point slip out of reach?

How about your sense of timing in life? Do you feel you are where you want to be? How relevant is what you say, what you do, in connection with the quality of living in this world, with the quality of living for others?

It is time to bring your inner compass to the table and deal with the consequences of the choices you made in the last few years. Since you are a reader of Pulse, and consequently a pioneer or just nosy, stepping out of the arena isn't an option anymore. Step up and show off! It is time to bridge the gap between the fear that war could ravage our life on Earth and the courage to do the best you can with no certainty about the outcome. You might be the one, people are waiting for. Your time, your patience, your empathy, your creativity, are what can enhance goods and talks with an almost outmoded quality.

The trade market is polluted with greed, hidden agendas, and generations of bullying market makers, yes. So what! Sharing your experiences and ideas on a global scale happens when you dare to step away from envy and distrust. When you learn to balance your personal energy field and set boundaries to the spill of time and energy.

"Time is on my side", is a tattered flag. It is now.



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.com](http://www.mirjamjanse.com)**

# INNOVATIVE CONFERENCE SHOW

Bastrop/Austin Texas.— After two years without a conference GlobalBEM is back with an informative program that should interest all. Connecting the dots between technology, consciousness, health, the economy, the environment, grassroots activism and crowdfunding!

GlobalBEM, Breakthrough Energy Movement hosted their first conference in Holland 2012, where the organization featured world-renowned speakers and scientists presenting on topics like zero-point energy, low-energy nuclear reactions, magnetics, and quantum disentanglement. The second addition was in Boulder Colorado 2013 and they are now ramping up for the third event this Spring.

GlobalBEM hopes to ignite discussion and activism around breakthrough energy—which the group defines as an abundant energy source that produces zero emissions and is clean, safe, reliable, and affordable.

The conference will feature over 10 notable scientists, industry insiders, and creative thinkers focused on the science and future direction of breakthrough energy solutions. Presentations and discussion panels will cover emerging energy technologies like zero-point, magnetic, hydro, plasma, and cold fusion low-energy nuclear reactions. Prominent speakers, such as Patrick Wood, Reuben Langdon, Ken Rohla and others are scheduled to present.

GlobalBEM aims to provide a place for conference attendees to formulate strategies for research sharing, prototype development, and funding of large-scale breakthrough energy projects. Speakers will share resources for do-it-yourself breakthrough energy projects in an open-source format.

The conference will be held at the Bastrop Convention Center in Bastrop/Austin Texas on May 28&29. Single, multi-day, and student passes are available. Registration and more information can be found at [globalbem.com](http://globalbem.com)

GlobalBEM, Breakthrough Energy Movement is a non-profit, volunteer-driven organization based in the Netherlands. What began as a small group quickly evolved into a worldwide international network of scientists, researchers, academics, artists, business owners, and the general public. It is dedicated to supporting the development of breakthrough energy through hosting conferences, producing media, and act as a facilitator for a global community, a reunion of humanity calling for the new energy paradigm.

[globalbem.com](http://globalbem.com) [globalbem.com/program](http://globalbem.com/program) [info@globalbem.com](mailto:info@globalbem.com)

LIVESTREAM GLOBALBEM CONFERENCE 2016: [globalbem.com/livestream/](http://globalbem.com/livestream/)



# SHOWCASES FUTURE OF ENERGY

Day 1

## Sat, May 28



VERNON ROTH - EVENT HOST

**Opening**

08:45 - 09:00



GEOFFREY MILLER

**Breakthrough Energy 30 Years ago and Now**

09:00 - 10:15



JASON VERBELLI

**Our Inevitable & Limitless Future - A Magnetic Field of Dreams**

10:30 - 11:45



REUBEN LANGDON

**Breakthrough technologies and the suppression within mainstream media**

12:00 - 01:15

**Lunch break**

01:15 - 02:45



KEN ROHLA

**New Frontiers in Healing with ORMUS and Scalar Energy**

02:45 - 04:00



KAREN ELKINS

**Science to Sage - Take a Visual Journey into the Construct of the universe**

04:15 - 05:30

**Dinner break**

05:30 - 07:00



**Round Table Discussion**

07:00 - 09:00

Day 2

## Sun, May 29



VERNON ROTH - EVENT HOST

**Opening**

08:45 - 09:00



MARKO RODIN & RANDY POWELL

**Vortex Based Mathematics Updated**

09:00 - 10:15

Marko Rodin

Randy Powell



MIKE UPSTONE

**New Energy Organisation: the NEO Model**

10:30 - 11:45



SUSAN KORNACKI

**Getting Back to our Collective Natural Blueprint: Grassroots Breakthrough Energy**

12:00 - 01:15

**Lunch break**

01:15 - 02:45



PATRICK WOOD

**Energy Currency: The Road To Global Technocracy**

02:45 - 04:00



MIKE WATERS

**Open System Energy Breakthroughs, Technologies and Sources**

04:15 - 05:30

**Dinner break**

05:30 - 07:00



**Round Table Discussion**

07:00 - 09:00

# AN IMPOSSIBLE INVENTION

THE TRUE STORY OF THE ENERGY SOURCE THAT COULD  
CHANGE THE WORLD

EDGE

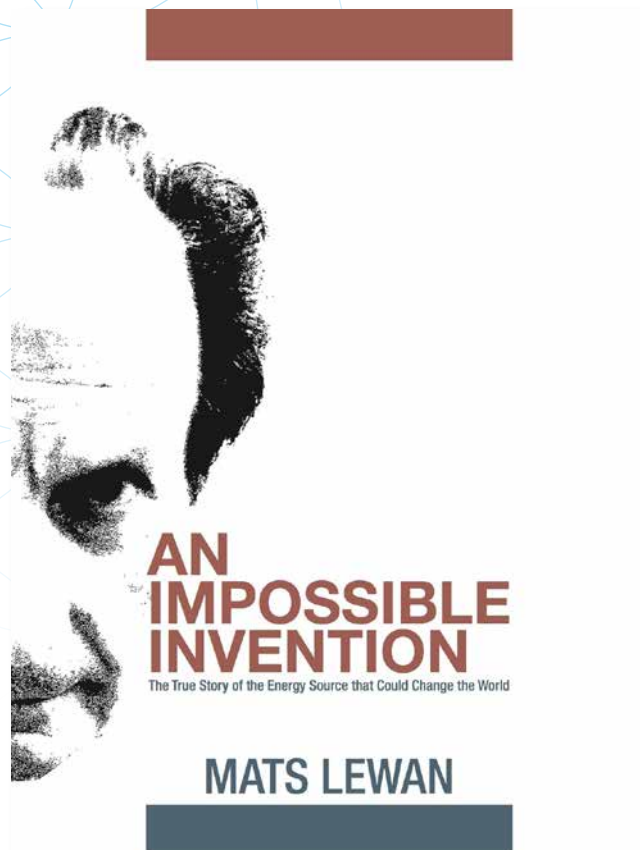
22

Cold fusion is an energy source that could provide clean water to Planet Earth, zero-emission vehicles with unlimited mileage, a solution to the climate crisis and much more. It is clean, compact, simple, inexhaustible and . . . physically impossible. At least that is what science has considered since an infamous and rejected scientific claim in 1989. But in January 2011 the Italian inventor Andrea Rossi demonstrated a sloppily-wrapped device that boiled water with heat emanating from something that seemed to be cold fusion. Too good to be true, some said. Fraud, according to others. Swedish technology journalist, Mats Lewan, was one of the few, who chose to take Rossi seriously. In *An Impossible Invention* we follow his search for the truth about Rossi and the strange device - the E-Cat. He shows that the impossible seems to be possible, that the world faces fundamental change.

Nobel Laureate Dr. Brian Josephson said the following about the book on Nature.com:

*The highlight of the week was the publication of Mats Lewan's book "An Impossible Invention", subtitled: "The true story of the energy source that could change the world". The author, a science and technology writer, has been investigating the controversial Rossi reactor or E-cat in depth in the 3 years since its initial presentation in Bologna in January 2011. The first part of the book covers Andrea Rossi's previous inventions, showing how life is not easy for an inventor whose inventions pose a threat to other enterprises. This is followed by what Lewan has been able to glean about the invention since the initial demonstration, purportedly of a fusion device creating some kW of heat. Besides following the course of developments in detail, Lewan gives much attention to the question of whether the device is genuine, or whether fraud is involved. One important event was a long-period investigation, published at arXiv:1305.3913, providing strong evidence of the production of anomalous heat.*

*Particularly interesting to me, in the light of my past dealings with arxiv, was the text of an accidentally leaked exchange between two moderators, wondering if they could find a rationale for blocking that report. In the course of his attempts to bring his device to a commercial conclusion, Rossi had problems with collaborators, being suspicious of their motives, but it seems he has found an (undisclosed) American firm*



*that he trusts, who has been licensed to develop the device. This fascinating book provides the answers to many questions about the E-cat, and should be read by all skeptics.*

The book was originally written in Swedish and has been translated into English and Italian. A French translation is under way.

The book can be bought at the following websites:  
[Animpossibleinvention.com](http://Animpossibleinvention.com)  
Amazon.com (and other Amazon websites)

For more on Rossi's E-Cat and Mats Lewan's book, see his article: Cold Fusion - An Impossible Invention on page 37 of this edition.





COLD FUSION IS AN ENERGY SOURCE THAT COULD PROVIDE CLEAN WATER TO PLANET EARTH, ZERO-EMISSION VEHICLES WITH UNLIMITED MILEAGE, A SOLUTION TO THE CLIMATE CRISIS AND MUCH MORE. IT IS CLEAN, COMPACT, SIMPLE AND INEXHAUSTIBLE.

**An Impossible Invention: The true story of the energy source that could change the world**

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# VIBRATING ELECTROLYZERS

- MORAY B. KING -

It just might be that the popular water electrolyzers can be improved to produce extraordinary energy. The excess energy is not from hydrogen combustion, but is instead sourced from the zero-point vacuum energy. A new perspective on water electrolyzers is offered, which shows why physically vibrating the equipment could dramatically augment energy output. Also a new perspective on the energy dynamics of thunderclouds will be proposed.

A new perspective on water electrolyzers could manifest a paradigm shift on what is the real energy... The paradigm shift could inspire the discovery of novel energy technologies. Surprisingly, it just might be simple to do.

Imagine grabbing a handful of thundercloud particles and stuffing them into the cylinder of an internal combustion engine. With the piston at top-dead-center, create a huge, abrupt electrical discharge from a powerful capacitive discharge sparkplug. What would happen? The piston would be propelled with a surprisingly large force. Why?

## How Can Fog Particles Be A Fuel?

The combustion chamber only contains fog and mist. How can fog particles be a fuel? After all, fog particles are nothing more than small droplets of water. When the droplet experiences an abrupt electrical discharge, it typically just blows apart. But, if the droplet is small enough, it can dimple into a torus shape that forms a symmetrical "template" that guides the plasma to become microscopic ball lightning.<sup>1</sup>

Ball lightning is a vortex ring of plasma called a "plasmoid." It was experimentally studied by Winston Bostick with numerous research papers published in the public scientific journals in the late 1950's through mid 1960's.<sup>2</sup> By the 1970's subsequent research was mostly classified and became part of the Strategic Defense Initiative.

The plasmoid can persist for surprisingly long times. Ball lightning has been observed to last for many seconds. The electrons and ions spiral around the vortex ring, and the force free vortex yields a natural stability. A vortex ring can be pictured as a slinky closing on itself.

## Ball Lightning Coheres Zero-Point Energy

Here is the big hypothesis: Ball lightning coheres the

zero-point energy, and the coupling manifests excess energy.

---

HERE IS THE BIG HYPOTHESIS: BALL LIGHTNING COHERES THE ZERO-POINT ENERGY, AND THE COUPLING MANIFESTS EXCESS ENERGY

---

John Wheeler, in his theory of Geometrodynamics<sup>3</sup>, models the zero-point energy like a virtual, turbulent plasma, called the "quantum foam." Here electric flux enters and leaves our three dimensional space through "mini holes" that act like mini virtual particles. These holes are sized at the Planck length,  $10^{-33}$  cm. That is twenty orders of magnitude smaller than the electron. The calculated energy density through them is enormous,  $10^{94}$  grams/cc. This model of the fabric of space is far more dynamic and energetic than the old hydrodynamic aether models of the 19th century.

In geometrodynamics the zero-point energy is modeled as a flux from a higher dimensional space (SLIDE 14). As the flux penetrates the flatland slot randomly, it manifests the background incoherent vacuum fluctuations. If there is a tilt to the flux as it enters our 3D-space, the vacuum is said to be polarized. If there is vorticity as the flux passes through our space, it manifests elementary particles. In this model the flux is like the flow of a stream, and the vortex "whirlpool" is like an elementary particle. Just as the constant flow of the stream is necessary to sustain the existence of the whirlpool, the zero-point flux is necessary to sustain the existence of



the elementary particle. Thus every elementary particle, and therefore all matter in the physical universe, is sustained by the zero-point flux.

The turbulence of the vacuum energy manifests self-organization. A churning production of electron-positron pairs appear and disappear on a rapid time scale in the turbulence of the vacuum fluctuations.<sup>4</sup> Quantum electrodynamics describe them as “virtual” particles because their lifetimes are so short. The activity is the foundation of quantum electrodynamics with all elementary particles intertwined with the vacuum fluctuations.

The vacuum polarization description of the atomic nucleus has steep lines of polarization converging onto the nucleus. Thus nuclei of plasmas are the key to activating coherent, large scale, Z.P.E. events.

Abrupt motion of plasma nuclei can bend the hyperspatial Z.P.E. flux so that more of it aligns in our 3D space. It typically manifests as excessive high voltage spikes in plasma. The more abruptly the plasma ions surge or jerk, the more the flux gets “ortho-rotated” or bent at right angles to align into our 3D-space (SLIDE 17). How can we harvest the energy? By trapping it into the ball lightning plasmoid! The natural precession (spin of a spin) of the plasma in the vortex ring ortho-rotates the flux, trapping it in the plasmoid. Simultaneously, it “warps” the space-time metric causing the plasmoid to exhibit an anomalous self-acceleration.

As we will shortly see, experimental studies of microscopic plasmoids have shown them to exhibit anomalous self-acceleration, excessive force, and excessive energy.

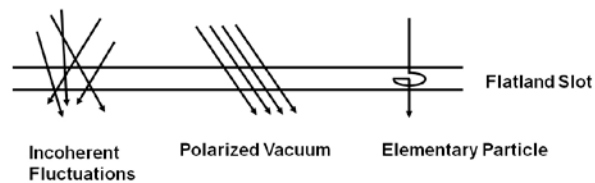
### Evidence in Nature

There is evidence in nature, but until recently, we have not been able to see it. The evidence comes from thunderclouds. It is exhibited on every lightning stroke. It finally was recorded by high speed photography. Every lightning stroke is preceded by a ball lightning precursor. The ball lightning ionizes the channel between the cloud and the earth, and the lightning stroke follows. There are many videos on the web showing this activity.

As impressive the lightning activity below the thundercloud is, the electrical activity above the cloud is far greater and far more spectacular. Associated with big lightning strikes are blue jets and sprites. Until this decade the scientific community refused to recognize this activity despite eyewitness accounts of blue jets seen by pilots. It was only after high speed photographic technology was improved that the events could be recorded. The sprite is the most spectacular. Associated with a single large lightning strike is a millisecond event that is physically huge: 30 miles wide and 50 miles high. The high speed photography shows the sprite originates from the halo above.<sup>5</sup>

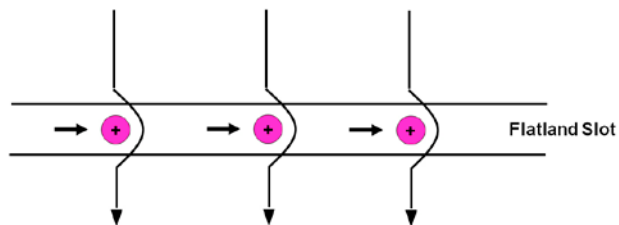
The fastest resolution photography has captured details

## ZPE from Hyperspace Flux



Slide 14

## Ion Surge (Jerk)



## Bends Zero-Point Energy Flux

Slide 17

of the sprite showing 10 meter or larger plasma balls launched from the halo and traveling downward at a tenth of the speed of light. From these events gamma rays and antimatter in the form of positrons have been detected.

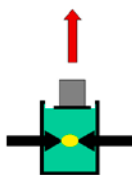
The antimatter was first detected by the Fermi Gamma-ray telescope satellite. The thundercloud activity manifested pair production of electron-positron pairs that followed the earth's magnetic field lines. When they struck the satellite, some positrons annihilated with the satellite's electrons to make the satellite itself a gamma ray source. The particles would reflect back from the earth's south pole and strike the satellite again yielding more events. Later studies revealed that the sprites were the source of the electron-positron pair production. The abrupt plasma activity of the sprite event cohered the vacuum's virtual pair production into full separation, where the particles spiral on the earth's magnetic field lines, keeping them apart. Thus the sprite exhibits coherent vacuum energy activation.

### Evidence in Experiments - Abrupt Electric Arcs in Water

The evidence from nature is only circumstantial. It

## Electrodynamic Explosions in Liquids

Peter Graneau

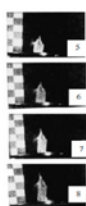


Abrupt Capacitor Discharge  
Propelled Weight Upward  
Measured Excess Force  
Blew Out Bolts  
**Photographed Plasmoid**

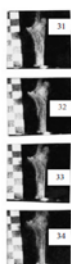
Appl. Phys. Lett. 46(5), 468 (1985)

Slide 34

## Micron Fog Particles



- High Speed Camera  
35000 frames/sec
- Cool
- Supersonic
- Excess Force



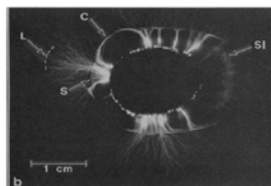
P. Graneau, N. Graneau, G. Hathaway, R.L. Hull  
*J. Plasma Physics* (2000), vol. 63, part 2, pp. 115-128.

Slide 37

## Corona Discharge Photography



David Faust



17 KV unipolar, 24 pulses, 0.5 sec  
40 usec rise-time

### Moisture Content Dominates Image

*Science* 15 October 1976: 263-270.  
<http://www.sciencemag.org/content/194/4262/263>

Slide 39

## Corona Discharge Video

David Faust, Drexel University 1978

- Pair of Low Light Video Cameras
- Single HV Pulse on Water Spray
- Pulsating Discharge, Persistent Event  
– **Ball Lightning?**
- Lasted over 1 minute



<http://www.altenergy.org/4/ine99/faust/faust.html>

Slide 40

does not prove there is a net energy gain sourced from vacuum energy. The proof must come from controlled experiments in the laboratory. Here there is evidence from years of study of abrupt electric discharges in water.

As early as 1907, Professor Trowbridge at Harvard University observed that spraying water mist into an electric arc yielded a much louder sound than the arc in air alone. He could not explain why.<sup>6</sup> During World War II, Professor Frungel in Germany observed that anomalous force occurred in abrupt electric arcs in water. He determined that the force was not caused by heat or steam. Later he applied the discovery to do under water pulse echo sounding to map the ocean floor.<sup>7</sup>

Water arc explosions are used for electrohydraulic metal forming. Here the shock wave from the abrupt arc symmetrically forces the metal sheet into the mold.

Electric arcs into water are used for rock fragmentation by blasting. There was a scientific investigation that measured the energy usage in the events. In one case excess energy was measured to be over unity at 156%. The result was disbelieved and simply dismissed as a measurement error.

Peter Graneau, a professor at M.I.T. in the 1980's, made a career at studying electric arcs in water. His work has yielded convincing experimental evidence that excessive force and energy are manifested in abrupt electric discharges in water<sup>8</sup> (SLIDES 34 and 37). The experiment involves discharging a capacitor into a small water chamber. The energy stored on the capacitor is known. When the discharge is sufficiently fast, an explosive event occurs that propels the weight upward. If the discharge is not abrupt enough, there is just underwater current and no mechanical motion. High speed photographs have recorded plasmoids associated with the explosive event. By measuring the height of the propelled weight, anomalous force was shown. There were some extreme events that blew out the bolts securing the water chamber. Thus the extent of the anomaly was not fully measured here.

## THE EXCESSIVE FORCE WAS DUE TO SUPERSONIC ACCELERATION OF SUB-MICRON FOG PARTICLES LAUNCHED FROM THE WATER

However, Gary Johnson, an electrical engineering professor at Kansas State University, replicated the experiments with an apparatus designed to measure all the force and energy from the explosive event. Johnson used a spherical water chamber designed to blow



apart and fly up guide wires.<sup>9</sup> By knowing the weight of the semi-spherical pieces and measuring how high they were propelled, Johnson's experiments confirmed that both excessive force and energy (exceeding what was stored on the capacitor) was consistently exhibited from abrupt electric discharges in water.

Today there are hobbyists exploring if the effect can be harnessed to drive an internal combustion engine. There are open source discussions on the web.<sup>10</sup>

Detailed studies via high speed photography by Graneau's team have yielded an important insight: The excessive force was due to supersonic acceleration of sub-micron fog particles launched from the water. By absorbing the fog into a balsa wood projectile and measuring its temperature, Graneau showed that the fog was cool and not steam.<sup>11</sup> During the explosive event, did those fog particles become microscopic ball lightning?

My colleague, David Faust,<sup>12</sup> was an electrical engineer and meticulous experimenter. He was able to make microscopic ball lightning from water repeatedly. In the 1970's, David Faust's expertise was corona discharge (Kirlian) photography. His team published a definitive study on the topic in Science magazine<sup>13</sup> (SLIDES 39 and 40). There were reports by other investigators that ball lightning events sometimes occurred from the apparatus. Faust was well equipped to investigate. By use of state of the art low light video cameras, he discovered that simply spraying water mist onto the photographic plate subjected to a single 17 KV pulse, he could create a ball-lightning-like event that sometimes persisted for over a minute.<sup>14</sup> Little did we know at the time, we were seeing the future discovery of another experimentalist, who most would agree, was the master investigator of microscopic ball lightning...

Ken Shoulders<sup>15</sup> dedicated his career to the study of microscopic plasmoids. It is his work that provides the best evidence that zero-point energy is cohered by ball lightning.

Ken Shoulders repeatedly launched a microscopic charge cluster plasmoid-like form with a relatively simple apparatus. An abrupt electric discharge from a capacitor through a sharp pointed electrode onto a dielectric surface creates the charge cluster. It appears to be a micron-sized form of ball lightning, which travels on the surface of the dielectric to the anode. It can punch a hole through the witness plate manifesting a crater that was made by an apparently high energy event. Shoulders' patent is well written and describes many possible applications of his discovery.

Shoulders originally named the charge cluster form "Electrum Validum" (E.V.), meaning "strong charge." Later he named it "Exotic Vacuum Object" (E.V.O.) (SLIDE 43), after he became convinced that the entity cohered and trapped zero-point vacuum energy. The E.V.O. contains the equivalent of about 100 billion

electrons and 100 thousand ions. It exhibits a charge to mass ratio similar to the electron, and it contains excessive energy exceeding the amount originally stored on the capacitor that launched it<sup>16</sup> (SLIDES 44 and 45).

Gennady Mesyats, president of the Russian Academy of Science, studied and experimentally researched Shoulders' discovery. He explained how the sharp pointed cathode (magnified here) emits the E.V. Just before the event, the tip surface melts yielding a tiny liquid metal protuberance extending into the surrounding glow plasma. The tip of the protuberance explodes off and the surrounding plasma circulates to form the vortex ring around the symmetrical micron size, dimpled blob of liquid metal.

In his investigations, Ken Shoulders sometimes measured positively charged E.V.'s.<sup>17</sup> They always exhibited the charge to mass ratio like the positron, but they were not comprised as a cluster of positrons because he never detected the characteristic gamma radiation of positron annihilation. Likewise, the negative E.V. lacked the corresponding number of electrons to account for all the manifested charge. Shoulders speculated that he was measuring something very fundamental about how the vacuum produces charge regardless of size: It always manifests it in the charge to mass ratio of the electron or positron.

Shoulders also photographed E.V. pair production: Both a positive and a negative E.V. circulating around each other.<sup>17</sup> This observation could inspire new self-organizational models of vacuum energy dynamics, and how it yields pair production of coherent forms at any scale. Such models might become the foundation of an engineering theory of the Z.P.E. for technology invention. He also measured dark E.V.'s that seemed to stop emitting light.<sup>17</sup> An electric pulse could reactivate them. David Faust may have been observing this form with his low-light video cameras. They could actually be occurring quite often in nature.

Ken Shoulders also discovered a powerful energetic event could be created by what he called a "cascade effect." First he would circulate a water vortex through a small bore hole. Then he would shoot an E.V. down the axis of the vortex. The resulting emitted plasma pulse was huge - it would damage anything it struck. He could not discover any way to harvest the energy from the event. He used the analogy, "It's like shooting a bullet at a windmill vane." The cascade effect appears to create an even bigger vacuum energy coherence by converting the water vortex into a plasma vortex.

### Evidence in Inventions

Inventors have often unwittingly utilized E.V. or microscopic ball lightning phenomena in their inventions, especially where pulsed plasma discharges occur.

Stanley Meyer is famous in the HHO community. Many believe he was murdered for his success that threatened to upset the fossil fuel industry. Stan Meyer is best

## Electrum Validum (EV) Exotic Vacuum Object (EVO)

$10^{11}$  Electrons

$10^6$  Ions

e/m Ratio like electron

Contains excessive energy

Ken Shoulders, <http://www.svn.net/krscfs>

Slide 43

## Liquid Metal Protuberance

Glow Plasma



Point Cathode

Mesyats, Proc. 17<sup>th</sup> Int. Sym. on Discharges and Electrical Insulation in Vacuum, 720 (1996)

Slide 44

## Explosive Emission

Glow Plasma



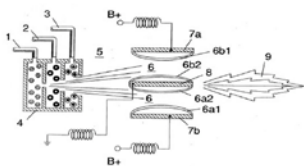
Liquid Metal Tip

Point Cathode

Slide 45

## Meyer Water Injector

- 1 Water
- 2 Ionized Air
- 3 Rare Gas (argon)



Canada Patent # 2,067,735

1991, 1992, 1998 (May 15)

<http://www.rexresearch.com/meyerhy/2067735.htm>

Slide 54

known for his dune buggy that he claimed would run solely on water.<sup>18</sup> His best invention was his last: The water fuel injector plug, which he felt was superior to the electrolyzer approach. The injector explodes a small amount of water into a plasma as it enters the internal combustion chamber.<sup>19</sup> He received a Canadian patent for the water injector, which is available on the web. Meyer fed a mixture of water, ionized air and inert gas (argon) into the reaction chamber where high voltage excitation caused the explosive emission. Use of argon was a surprise; it appeared to enhance the output energy (like it does for sonoluminescence)<sup>20</sup> (SLIDE 54).

Three concentric spray rings are used. Water mist comes through the inner ring, ionized air through the middle ring, and argon through the outer ring. Behind the injector plugs was a sophisticated feed system. The air was ionized by a laser priming stage. Meyer thought he could retro-fit automobiles to run on water for about \$1,500.- if the system were mass produced.

**DID OMASA ACTUALLY  
DISCOVER A NEW ENERGY  
SOURCE SO DISRUPTIVE  
THAT IT HAD TO BE  
SUPPRESSED?**

### Energetic Fog Gas from Water Electrolyzers

The popular water electrolyzers could offer an easy means to generate abundant water mist or fog in addition to hydrogen.

In the 1970's Yull Brown applied the gas to welding applications (SLIDE 58). Brown is credited with first observing the big anomalies of the welding gas, and perhaps it is fitting to name the gas after him. In his attempts to explain the energetic anomalies, Brown postulated that the electrolyzer was making atomic hydrogen and oxygen (HHO). Most researchers today call the gas HHO, despite the evidence that no atomic hydrogen has ever been measured. At normal ambient temperatures, a lone hydrogen atom typically combines with whatever it contacts.

George Wiseman has experimentally studied the gas for over thirty years. In 1996 he proposed the gas included (in addition to hydrogen and oxygen) a water cluster structure that he named "electrically expanded water." He sometimes observed an electric shock when a container of the gas spontaneously imploded back to water.

Ron Mitchell replicated Wiseman's electrolyzer and sometimes observed a cool fog or mist was emitted.

Other researchers have noticed turbulent mist activity just above the electrolyzer water bath. Here large



bubbles of mist break apart into smaller bubbles. This is a good clue. It is the tiny bubbles that are desired because they support microscopic ball lightning formation.

The use of an ultrasonic pond fogger within the water electrolyzer has been suggested and discussed on the web. This idea appears worth exploring.

Ryushin Omasa appears to have the best protocol to make extremely tiny bubbles with his electrolyzer. He uses vibrating vanes in the water bath, which affect the surface tension so that big bubbles cannot form. His protocol makes very little free hydrogen – it stays trapped in the stable microscopic or nanoscopic bubbles, which rise out of the water bath like tiny balloons. He was able to store the resulting gas under pressure for 2 years. When storing the gas under pressure, it is important that the containment system vents any residual hydrogen; otherwise the mixture can be explosive and dangerous. Omasa did not store free hydrogen. The gas is able to run a small engine without any extra air input (SLIDE 63).

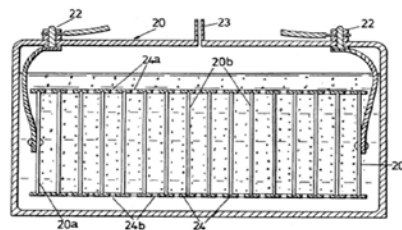
Ryushin Omasa invented an acronym to name the gas. Coincidentally it sounds just like his name!

In 2009 a video was released informing the world of his discovery.<sup>21</sup> The video has English subtitles and it summarizes Omasa's research. Here he proclaims "A new form of water has been birthed on earth. It is a fuel that will save the planet." In Japan, Ryushin Omasa is somewhat a hero. In 2011 there was a Japanese news special featuring his discovery. The video is only in Japanese.<sup>22</sup> The special described the name of the gas. It showed the vibrating vanes. It showed a scooter running on 100% OHMASA gas. It showed a car. However, it was running on only 50% OHMASA gas and 50% liquid petroleum gas. Why? The video featured running a generator on the gas. Here energy input and output could be measured. What does this graphic imply? Is it 5 kWh output from 2 kWh input (SLIDE 72)?

This was a surprising graphic. The generator was run on a mixture of 50% OHMASA gas and 50% propane. Why is he mixing in propane? This obscures the scientific discovery. Did he not proclaim a new fuel that would save the planet? He showed a scooter and small engine running entirely on OHMASA gas. Why not a generator? Has Omasa been suppressed? Why is there no longer any web activity regarding Ryushin Omasa after 2012? These questions are intriguing especially in view of the translation of the displayed graphic: It took 10 kWh of energy to make 20 kWh of OHMASA gas which is combined with 20 kWh of propane to yield 40 kWh of output energy from the generator. Did Omasa actually discover a new energy source so disruptive that it had to be suppressed? It implies that despite all the energy needed to run the vibrator and electrolysis to make the gas, it nonetheless yielded so much output power as to prove a new energy source has actually been discovered. Omasa's protocol might yield a paradigm shifting experiment. If others replicate his discovery, he could

## Yull Brown

### Welding – Proposed HHO



U.S. Patent 4,014,777 (1977)

Slide 58

## OHMASA Gas



Ryushin Omasa



Runs Engine  
No Air Input

Mechanical Vibration 100 Hz

Parallel Plate Electrolyzer

Stored gas under pressure, 2 years

[http://peswiki.com/index.php/Directory:Ohmasa\\_Gas\\_by\\_Japan\\_Techno\\_Co.,\\_Ltd](http://peswiki.com/index.php/Directory:Ohmasa_Gas_by_Japan_Techno_Co.,_Ltd)

Slide 63

## Omasa - Generator



[https://www.youtube.com/watch?v=pqY7VC6Vq\\_A](https://www.youtube.com/watch?v=pqY7VC6Vq_A)

Slide 72

be worthy of the Nobel prize.

Technical information regarding the details of Omasa's research is old. The last patent application was filed in 2009. The patent application filed in October of 2008 was a repeat of that filed in May 2002 with the claims enhanced. Omasa's expertise was mechanical mixing as evidenced by his 1994 patent. His mixer was designed to emulsify powders in liquid for a variety of applications, especially electroplating. It was in the early 2000's that he began experimenting with water electrolyzers resulting in the large patent filed in September 2002. The last application was filed in May 2009, just before his video was released, announcing his discovery





pounds per square inch. Here a new solid state of water forms, which Mark LeClair of Nanospire Inc. calls a "macro-ionic water crystal" (SLIDE 83).

## HERE A NEW SOLID STATE OF WATER FORMS... A "MACRO-IONIC WATER CRYSTAL"

Mark LeClair discovered the reentrant jet water crystal. He also discovered that at its leading tip is a plasma bow shock wave. LeClair suggests that here manifests a zero-point energy coherence because of the exhibited energy anomalies like carving trenches in high melting point ceramics (e.g. aluminum oxide). That plasma bow shock wave might be the same phenomenon as Ken Shoulders' E.V.O.

Mark LeClair has two patents that describe controlling the reentrant jet for nanometer scale cutting by directing it through a small hole. A laser strike forms the cavitation bubble directly over the hole. When the bubble collapses into a torus, the emitted reentrant jet targets the hole rather than striking the plate because that is the direction of local minimal ambient water pressure. After accelerating through the hole, it can then strike the desired target, typically for cutting purposes at nanometer precision (SLIDE 86).

So the payoff in Obama's patent for snapping the fluttering blade tip is to create cavitation bubbles (SLIDE 87). The snapping blade creates these bubbles, and reentrant jets from their collapse are launched away from the blade directly toward the holes of the electrolyzer plates because this is the direction of minimal ambient water pressure. The reentrant jets thus naturally enter the zone of electrolysis activity. This is the advantage of having holes in the electrolyzer plates. Omasa may not be aware that this phenomena is occurring in his vibrating electrolyzer.

Mark LeClair and Ryushin Omasa are not the only ones using reentrant jets from collapsing cavitation bubbles to their advantage. A small animal called the pistol shrimp knows how to use it too<sup>23</sup> (SLIDE 89).

Reentrant jets offer other surprising effects. LeClair has observed that elongated water crystals can sometimes close into loops. Here the positive head is attracted to the negative tail which combines to form a loop. Likewise colliding reentrant jets can sometimes form loops by mutually attaching head to tail (SLIDE 90). A small water crystal loop could be the seed for a water cluster gas. Abundant cavitation activity could yield "energized" water that contains many such clusters. LeClair suggests the ring might be stable under a half micron. A ring would be an ideal "template" to support creating a torus form.

### Pistol Shrimp

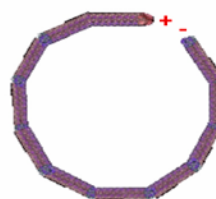


[Play](#)

<http://www.youtube.com/watch?v=eKPrGxB1Kzc>

Slide 89

### Reentrant Jets Can Form Loops



Positive Head Attaches to Negative Tail

Slide 90

### Omasa Patent Embodiments

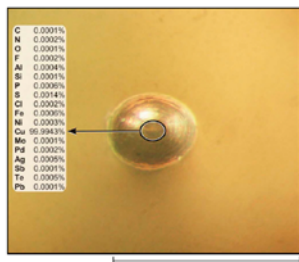
Omasa's patent describes embodiments that he used in his experiments. His experiments allowed him to gradually improve his apparatus. Most improvement was achieved by varying the excitation waveform for the electrolysis.

The specs for the best embodiment was described as shown. The electrolysis plates were expensive, and half the surface area consists of holes. For the electrolysis, he appeared to be using a 10 Hz square wave with 80% duty cycle. Because he had access to a sophisticated signal generator, it is possible there could have been a higher frequency modulation within the square wave that he did not disclose. He stated that his electrolysis current density was 5 amps per square decimeter of plate area. The actual plate size was not stated nor the total input current. Thus it was hard to compare his gas production efficiency to other HHO projects. However, if the gas quality is superior yielding abundant stable nano-bubbles, they could yield superior performance in an engine because they all convert to ball lightning to propel the piston. Thus less gas would be required compared to what is needed to propel the piston via hydrogen combustion.

### Surprises

There were some surprising experiments mentioned in the last patent application filed in 2009.

## Nucleosynthesis from Plasmoid Strikes

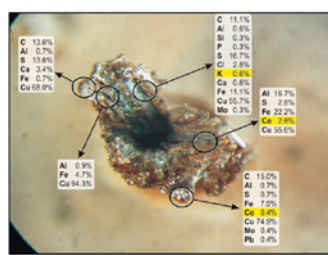


Adamenko, et al.

[http://www.proton21.com.ua/articles/Booklet\\_en.pdf](http://www.proton21.com.ua/articles/Booklet_en.pdf)

Slide 103

## Nucleosynthesis from Plasmoid Strikes



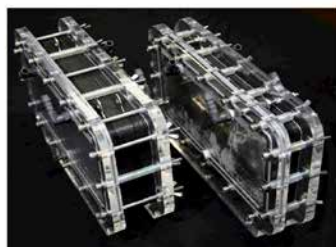
Adamenko, et al.

[http://www.proton21.com.ua/articles/Booklet\\_en.pdf](http://www.proton21.com.ua/articles/Booklet_en.pdf)

Slide 104

## Anton Cell

1 mm  
Gap

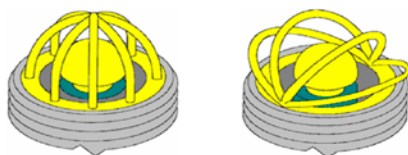


<http://anton-shop.com/>

Slide 110

## FireStorm Sparkplug

Robert Krupa



US 5,936,332 (1999)

US 6,060,822 (2000)

Patrick Kelly

<http://www.free-energy-info.com/Chapter10.pdf>

Slide 118

Omasa tried an extreme concentration of potassium hydroxide electrolyte. Such experiments are dangerous because the electrolyte is so caustic. The high conductivity allows each electric pulse from the electrolysis plates to manifest an effective underwater plasma discharge. The plasma discharge intermixed with the re-entrant jet activity would no doubt lead to some interesting physics. Omasa reported reasonable gas production in these experiments, but the approach appears to waste too much input power for practical usage.

Omasa stated that his electrolyzer yields 5 to 700 nanometer size bubbles. There are studies of water clusters on the scale of about 3 nanometers. If some hydrogen atoms were cocooned in the cluster, they could rise out of the water bath like miniature hydrogen balloons.

Omasa measured the temperature at where the gas would liquefy at various pressures ranging from 43 to 4,300 pounds per square inch (p.s.i.). When the liquid melted, it returned back to the same energetic gas that could vaporize tungsten as a torch.

Omasa was able to store the gas under pressure for long periods of time. In these experiments his storage containment was porous to hydrogen, and would leak any free residual hydrogen. A mixture of hydrogen and oxygen typical of Brown's gas can spontaneously explode at about 30 p.s.i. He even tried pressure experiments up to 200 atmospheres without explosion. Since extreme pressure experiments are so obviously dangerous, they were performed in a shielded area. Omasa had so little free hydrogen emitted from his water bath that a small spark above the bath did not ignite the gas. In contrast, hydrogen combustion would immediately occur in typical Brown's gas electrolyzers.

Perhaps the biggest surprise was that Omasa mentioned the possibility of element transmutation in his patent application. There was only one sentence. Why was this mentioned? Did he actually observe element transmutation events?

There are other researchers who flat out claim to have measured nucleosynthesis transmutation events, something considered impossible in today's paradigm of standard science. In 2012 Mark LeClair announced to have measured such events in his apparatus designed for extreme cavitation. Ken Shoulders quietly presented his transmutation measurements caused by E.V. strikes at the 12th International Conference on Cold Fusion poster session. By far, the most spectacular nucleosynthesis experiments are claimed by Stanislav Adamenko.

Adamenko lead The Proton-21 Laboratory in Kiev, Ukraine, where he repeatedly created transmutation using large, kilo-joule plasmoids.<sup>24</sup> Proton-21 is a laboratory employing professors from the local university to study the phenomena. Depicted in slides 103 and 104 is an extremely pure copper target they meticulously prepare that will be struck by the plasmoid.



After the target is smashed by the energetic plasmoid, it contains elements all over the periodic table. The Proton-21 Laboratory appears to be conducting the best research in the world regarding element transmutation. Their work is pretty much ignored by western scientists because of the egregious paradigm violations their experiments are exhibiting. Like Shoulders and LeClair have shown in their experiments, the input energy is not sufficient to produce nuclear level events, and thus the experiments strongly imply coherent Z.P.E. activation is occurring.

The research continues today where the Russians are enthusiastically replicating the experiments. There are annual conferences in Russia dedicated to studying cold nuclear transmutation from ball lightning. How does western academia respond to this research activity?

They ignore it!

### What Can We Do?

There is quite a bit of evidence of interesting energetic activity associated with water structure and plasma discharge into water mist or fog. How can the hobbyist inventor take advantage of this?

Remember, the goal is to transform typical bubbles or fog/mist droplets into extremely tiny stable bubbles. These form the basis for creating abundant microscopic ball lightning. This goal explains why narrow gap electrolyzers are helpful, especially if they result in water sputtering, turbulence and cavitation. The sputtering activity at the water bath surface breaks up larger bubbles into sub-micron bubbles or fog droplets that rise from the bath like tiny hydrogen balloons.

A good example is the Anton cell which has a narrow, one millimeter inter-electrode gap separated by thin gaskets (SLIDE 110). These cells were used in a spectacular experiment.

In his electrolyzer Steve Eaton used cylindrical electrodes with an extremely small gap. The electrodes were separated by a polystyrene monofilament line wrapped as a spiral on the inner electrode.<sup>25</sup> The spiral wrapped monofilament line forced sputtering water and gas to stay in the electrode gap as it spiraled all the way up the full length of the electrodes. He experimentally determined that when the electrode pipes were long enough, he would produce a far more powerful gas than when the pipes were short. He did not know why. A simple hydrogen hypothesis cannot explain this observation.

In November 2009 Steve Eaton and Jeff Sokol of Hybrid Tech released plans on the web where they described Eaton's electrolyzer claiming a closed loop system running a 3.25 KW Troy-Bilt generator.<sup>26</sup> The electrolyzer output 6 liters of uncompressed gas per minute and there was sufficient extra power to light some bulbs and run a power drill. The system was self-running for about 20 minutes. Steve Eaton tried

to go open source with this project. The website was immediately attacked. Shortly afterward, Steve Eaton demanded Jeff Sokol to remove all information from his e-book, and he has never communicated again. Was he suppressed?

German hobbyists, Oliver and Valentin, using the Anton electrolyzers were experimenting on a low budget on an open source project to make a closed loop self-running system.<sup>27</sup> They worked with a cheap small, Chinese generator where they changed the timing with external rigging in order to run on the gas emitted from their electrolyzer. They were participating in blogs and YouTubes during the course of their project.

In December 2010, Oliver and Valentin posted a YouTube video showing a successful self-running, closed-loop system on a cart that they took on an elevator ride.<sup>28</sup> Shortly after posting the demonstration, they abruptly quit all communication and no longer participated in any discussions. Were they suppressed?

Self-running a genset where the electrolyzer provides the gas for the engine in the generator, whose electricity solely drives the electrolyzer, is considered absolutely impossible when just hydrogen combustion is occurring. Not only does it take more energy to dissociate water into hydrogen and oxygen than is ever returned when the hydrogen combusts, but more importantly, internal combustion is extremely inefficient, perhaps 20% at best for a cheap generator. Most of the energy in internal combustion is wasted as heat. Thus any claim of a self-running genset is a spectacular claim. It implies that whatever is happening energetically has to be ~5X over unity to overcome the major losses (assuming combustion). It is no wonder that such claims are immediately dismissed as frauds.

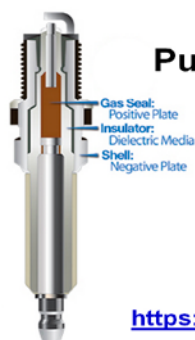
However, if the piston in the engine was actually driven by a completely different mechanism, ball lightning plasmoid propulsion, then a new possibility arises. The pulse plasmoid force has to indeed be spectacular to overcome the system losses. Here the quantity of gas needed might be surprisingly small if abundant microscopic ball lightning gets created with each plasma discharge. Simply idling a closed loop genset is proof that a new energy source is present. The proof must come from massive independent replication to insure that it is not fraud. Thus the discovery has to come from the open source community.

### Plasma Discharge Sparkplug

To make abundant microscopic ball lightning from fog or mist requires a large, abrupt plasma discharge. Thus the sparkplug becomes an important component to drive a genset as a pulse plasmoid engine.

The Firestorm sparkplug invented by Robert Krupa appears ideal because it is designed to emit a large spherical shaped plasma with each pulse (SLIDE 118). Patrick Kelly in his e-book (see Pulse Magazine edition 5) told the story of Krupa and his sparkplug.<sup>29</sup> The inventor just

## Capacitive Discharge



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

Slide 126

## Halo Emitter on Fog



Pulsed:  
75 KV  
10 mA  
41 KHz

[Play](#)

David Yurth, Nova Institute

Slide 127

## Water Arc Explosion Experiments



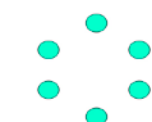
Anomalies from Sub-micron Fog Particles

Slide 139

## Vibrating Electrolyzer



Breaks Big Bubbles



Tiny Stable Bubbles

Any Means of Vibration Helps

Slide 140

could not get any traction with a manufacturer to mass produce the sparkplug, which was claimed to have an extremely long lifetime because the electrodes did not wear out. Over the years some simple prototypes have been created by researchers.

Krupa's patents illustrate a variety of electrode "cage" configurations, all designed to yield a uniform plasma discharge. Some electrodes had a dimpled configuration which yielded a superior abrupt plasma emission. The dimpled surface acts like a hollow cathode switch where glow plasma forms just before the sparkplug fires. Ken Shoulders had observed that abrupt discharge from glow plasma in a hollow cathode switch, can itself launch E.V./E.V.O. events. It is interesting that Krupa discovered the benefit empirically via his experiments.

There are commercial plasma sparkplugs available for sale. They are typically used to enhance racecar performance. The Pulstar sparkplug is notable. It touts capacitive discharge technology where the casing of the plug is designed to be a cylindrical capacitor<sup>30</sup> (SLIDE 126).

To maximize microscopic ball lightning formation in the combustion chamber, an abrupt capacitor discharge would ideally occur on each firing event timed with the piston top dead center. The timing must be controlled so as not to fire a "waste spark" during the exhaust cycle, since the valve is open to the gas input feed line when the timing is adjusted at top dead center. Thus to make a genset run as a pulse plasmoid engine requires controlling the pulse plasma event.

David Yurth lead a team to invent a novel sparkplug named the "Halo Emitter" (SLIDE 127). It was designed to ignite the fog gas from a novel electrolyzer. Yurth's team used counter rotating magnets to excite the water and gas in their electrolyzer.

The use of counter rotating magnets is an "archetype" idea that has inspired inventors over the years. The Russian torsion field theories support the idea with the view that organizing coherent vacuum energy phenomena must conserve angular momentum. Thus vacuum energy coherence always involves pairing counter-rotating spins. Yurth's team applied this idea to see if it would improve the gas yield from a water electrolyzer. They were encouraged because the electrolyzer did indeed emit abundant fog gas that seemed more energetic.

### Summary

Wrapping up...

Cloud particles are simply small droplets of water. If small enough they can dimple into a torus form when subjected to a pulse plasma event. The abrupt electric discharge plasma can form around the torus to make a microscopic plasmoid.

The plasmoid form can cohere the zero-point energy by ortho-rotating the underlying hyperspatial flux, trapping it within the plasmoid. The ortho-rotation "warps" the



space-time metric to manifest a self-acceleration of the plasmoid. If the plasmoid can interact with other vortex activity, the resulting coherence can cascade to manifest even bigger energetic events.

Thundercloud activity could be producing abundant plasmoids. High speed photography shows every lightning bolt has a ball lightning precursor. The huge energetic sprites above the thundercloud also manifest ball lightning activity. The creation of gamma rays and antimatter imply coherent Z.P.E. activation. The paradigm shifting hypothesis is that thundercloud energy is ultimately sourced from the zero-point energy itself.

The water arc experiments have shown that the anomalous force comes from the supersonic sub-micron fog particles; they were measured with high speed photography (SLIDE 139).

The point of vibrating the electrolyzer is to break up the bubbles into tiny stable bubbles. These will be basis for forming the microscopic ball lightning (SLIDE 140).

Any means of vibration helps. An off-balanced flywheel on an electric motor allows controlling the mechanical vibration frequency by simply adjusting the speed of the electric motor. The speed should be adjusted to maximize production of cool fog from the electrolyzer.

Omasa's fluttering blades were designed to create a snapping action. This would create cavitation bubbles that then would collapse to form reentrant jets. These in turn could support the formation of nano-bubble clusters in the water. Hydrogen trapped in the clusters could lift them from the water bath like microscopic hydrogen balloons. These could be ideal forms for creating microscopic ball lightning. Omasa may have discovered the best protocol for making the ideal gas (SLIDE 142).

To convert all the microscopic bubbles simultaneously into ball lightning, a maximal spherical plasma sparkplug should be used. The wider and more abrupt the plasma discharge, the better.

The microscopic ball lightning converts an internal combustion engine into a pulsed plasmoid engine. The huge anomalous force is sourced from the zero-point energy (SLIDE 143 and 145).

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**THUNDERCLOUDS TAP THE  
ZERO-POINT ENERGY. WE  
SHOULD TOO!**

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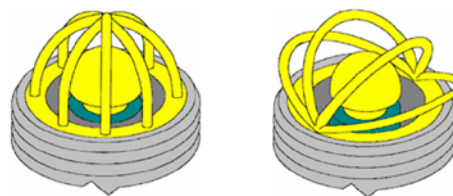
## Omasa Fluttering Blades



Makes Stable Nano-Bubbles

Slide 142

## Plasma Sparkplugs



Converts Nano-Droplets to Ball Lightning

Slide 143

## Thunder Clouds Tap the Zero-Point Energy



Slide 145

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31. David Yurth, Nova Institute of Technology



## ABOUT THE AUTHOR

## MORAY B. KING

*Moray B. King has written three books: Tapping the Zero-point Energy (1989), Quest for Zero-Point Energy (2001), and The Energy Machine of T. Henry Moray (2005). The December 2012 issue of Infinite Energy magazine featured his paper on this topic as the cover story. Paradigm Shifts is his discussion with Gary Hendershot on the implications of a zero-point energy technology. It focuses on what is really stopping humanity from making the breakthrough discovery. It can be found on YouTube as: "Paradigm Shifts" by Moray King (<https://www.youtube.com/watch?v=2gMY31DyaWo>).*

*All Power Point presentations by the author on this topic can be downloaded from the website PESWiki - Pure Energy Systems. The links are listed under Subsequent Materials ([http://peswiki.com/index.php/Video:Water\\_as\\_Fuel\\_%28via\\_ZPE%29#Subsequent\\_Material](http://peswiki.com/index.php/Video:Water_as_Fuel_%28via_ZPE%29#Subsequent_Material)). A presentation of this slide show can also be viewed on YouTube under the title: Vibrating Electrolyzers -- Moray King on keys to unlocking ZPE in hydroxy systems (<https://www.youtube.com/watch?v=cuv4nyvkyZI>)*

*Additional information about Moray B. King and his idea can be found in edition 4 of PULSE Magazine, in the articles: How to Deal with Career Skeptics and Moray B. King on Microscopic Ball Lightning and Vibration by Jeane Manning.*



# COLD FUSION AN IMPOSSIBLE INVENTION

- MATS LEWAN -

What if there were an energy source that could provide clean water to Planet Earth, zero-emission vehicles with unlimited mileage, a solution to the climate crisis and much more, but that it was blocked, not by Big Oil but by the scientific community. Would that make sense?

Much indicates that this is the case with the phenomenon known as Cold Fusion or L.E.N.R.—Low Energy Nuclear Reactions.

And little did I know, when I wrote a short news piece on Cold Fusion in January 2011 on the website of the Swedish technology magazine *Ny Teknik* where I worked as a staff writer, that this piece would throw me into a story full of scientific mystery and excitement, harsh discussions on fraud and pathological science, and hope for a world changing technology. And that now, five years later, the story would still not be settled. On the contrary – it probably just began.

The news piece I wrote had the title *Cold Fusion—now supposedly ready for production*. It was a report on a semipublic test of a table-top experiment with a heating

device, not looking very impressive, boiling the water that was being pumped into it continuously.

The test was performed by the Italian inventor Andrea Rossi in Bologna, Italy, and his device was called the E-Cat, short for Energy Catalyzer. The device was exceptional, if the claims were true, not only because it produced heat from minuscule amounts of fuel through a process that seemed to be in line with cold fusion, but also because it started every time and because the output power was in the range of kilowatts.

Ever since the two world-class electro chemists Martin Fleischmann and Stanley Pons surprised the world in 1989 with experimental results that they suggested were based on cold fusion, such claims had always been in the range of watts and extremely difficult to repeat. And because of the difficulty to reproduce Fleischmann and Pons' results, and also because the process was considered impossible, after only a few months the scientific community rejected the claims with aversion as measurements errors or pathological science—i.e. when scientists find results that are not true, only because they want to find them.

A device that, like the E-Cat, started every time and could produce kilowatts of heat, would therefore be nothing less than a scientific revolution and a world changing technology, even more so since it seemed close to being commercially available.

And when I and my colleagues noted that the news piece was getting close to 100,000 hits—several times more than any previous piece on the web site—I realized that I needed to dig further into the story.

Although there were immediately comments ranging from enthusiasm to indignation, what pleased me was that our readers, mostly engineers, chose a pragmatic approach to the climate and pollution crisis. Rather than only optimizing energy consumption and settling for known energy sources, they were more interested in solutions involving scientific discoveries leading to new unexpected energy sources.

And cold fusion would be just that. Most easily it could be described as a nuclear reaction without radiation, and with no radioactive fuel and no hazardous waste. Its most important aspect though is the high energy



Andrea Rossi with an early model of the E-Cat in April 2011. The one Rossi's is holding is insulated and ready to run, with a hydrogen inlet attached to the left and a temperature sensor inserted close to the vapour outlet. In the foreground, an E-Cat without insulation, with a chimney for the vapour sticking up at the right.

density. *Nuclear* reactions, like fusion (which is the process that powers the sun and the stars), or fission (that is at the core of nuclear power plants), involve the atomic nucleus, which has a mass thousands of times greater than that of the tiny electrons, which are involved in *chemical* reactions like combustion. The forces that keep the nucleus intact are also several orders of magnitude stronger than those keeping the electrons in their orbits. This is one way of understanding why nuclear reactions release about a million times more energy from the same amount of fuel, compared to chemical reactions, meaning that one gram of nuclear fuel corresponds to tons of oil or coal, and that with a nuclear energy source, the fuel of a car's lifetime would fit in the palm of your hand.

So far, however, nuclear reactions have had the significant inconvenience with deadly radiation and hazardous radioactive waste. Nuclear fusion, which has not even been achieved in a controlled form, despite decades of research and billions of funding, furthermore requires an operating temperature of a hundred million degrees. Cold fusion, on the other hand, operating at a temperature up to about 1,500 degrees Celsius, would provide nuclear energy that is easy to handle—a compact, cheap, clean, silent and carbon-free energy source, on-demand, that would literally change the world. The issue is that no one has yet been able to explain how cold fusion can occur, according to known laws of physics, since nuclear fusion normally requires millions of degrees and produces lots of radiation. But it's not necessarily the same case. 'Hot' fusion happens between free nuclei colliding with each other, while cold fusion would take place among atoms fixed in a lattice in solid-state matter, or possibly in a liquid, and it's not even sure that what we call cold fusion should be defined as fusion. What is clear, is that the signs of this unexplained nuclear process—heat far beyond what could be produced through a chemical reaction and changes in the atomic nuclei—have been observed hundreds of times in experiments published in peer-review journals. Even direct replications of Fleischmann and Pons' results have been produced, once the tricky necessary conditions for the experiment were sorted out.

But because the rejection from the scientific community in 1989 was so categorical, most of these results made by the small group of dedicated L.E.N.R. researchers spread over the world, have not even been noticed. To some people though, including me, they helped being open to the possibility that Rossi actually might have found something along these lines.

Most people, however, did not think he had, and many of them referred to Rossi's past activities with producing biofuel from organic waste and eventually ending up in prison, taking this as a clear indication that he was a fraudster. Since I knew Italy fairly well, being married with an Italian woman, I soon found out that this conclusion was a bit hasty, and that as usual in Italy, things were probably not what they seemed to be at a first look. Instead, I found reasonable explanations to Rossi's past troubles, and also some clues to his quite particular

character, which in turn could explain why he might have succeeded where many others had failed. Speaking Italian I got in touch with Rossi, which led to a series of encounters and other connections, and I eventually also started to write the book *'An Impossible Invention'* where I tell the story of everything I got to know behind the scenes. I introduced Rossi to two Swedish physicists—Prof. Sven Kullander, member of the Royal Swedish Academy of Sciences, which awards the Nobel Prizes in Chemistry and Physics, and Assistant Prof. Hanno Essén, at the time chairman of the Swedish Skeptics Society. Essén surprised me by immediately saying: *"This looks interesting"*. Later Essén and Kullander went to Bologna, Italy, to assist at a test with Rossi's E-Cat, after which they produced a report which gained a lot of attention, stating that the process of the device must be nuclear.

I also assisted at four tests with the E-Cat, making measurements and videos that I published at *Ny Teknik*. At one of those tests in October 2011, Rossi detached the electric input which was necessary to ignite the reaction and at a certain extent to keep it under control, and for almost four hours the device kept boiling water that was pumped in, without any power input at all. Many others and I found this test fairly convincing. During all this time I was both encouraged and personally attacked by our readers. Meanwhile, essentially all other mainstream media and journalists in the world kept quiet. For years.

During these years Rossi kept working and developing his E-Cat, demonstrating an impressive one-megawatt plant under unclear conditions in 2011, also making and breaking connections with several corporations and investors. While the time passed, several prominent



Andrea Rossi and late Prof. Sergio Focardi at a set of four E-Cats in April 2011, one of them insulated and wrapped in aluminium, ready to be started. In the foreground a yellow peristaltic pump, used to control the amount of water being input into the E-Cat during operation.

scientists passed away, among them Martin Fleischmann, Prof. Sergio Focardi, who was Rossi's scientific advisor in Italy, and Prof. Sven Kullander. The latter was strongly criticized, but kept investigating the E-Cat, involving a few colleagues, who continued his work and made an important long term test of a second generation high temperature E-Cat in 2014. The report, known as the Lugano report, has been downloaded over 200,000 times, and since it contained an analysis of the fuel mix in the E-Cat—mostly nickel, hydrogen and lithium—it led to people all over the world starting to try replicating Rossi's effect, and a few months later a Russian scientist claimed to have had some success.

Meanwhile Rossi finally found an industrial partner—the environmental investment fund *Cherokee Investment Partners* led by Thomas Darden, who founded the company *Industrial Heat*. I.H. acquired the rights to produce and commercialize the E-Cat technology in North and South America, Russia and China. In February 2015 I.H. helped Rossi to build a new one-megawatt plant that was put in commercial operation at the premises of a customer buying the heat, for a full one-year trial. As I'm writing this the one-megawatt plant has been in operation for almost a year, seemingly without major problems, producing its powerful output as hot steam, supposedly from only grams of fuel that has lasted without recharging so far. Half way through the trial, Rossi was also granted a U.S. patent on the core technology of the E-Cat, to the surprise of many. The informed L.E.N.R. community and many others are following the one-year test with great interest, hoping for a clear report being delivered when the test is concluded in February or March 2016.

Saying that the consequences of such an energy source will be disruptive is an understatement. Personally I think it's high time to discuss the implications for industry, finance and society, and I have founded the *New Energy World Symposium* with this scope, planning to hold its first session in Stockholm, Sweden in June 2016. The reason is that the potential implications are so dramatic that it's urgent to start discussing them, in order to avoid a chaotic transition. Moreover, apart from Rossi and I.H., a few other companies and groups are also researching and developing L.E.N.R. based technology, e.g. U.S. based Brillouin Energy. We can already see the big picture. An energy source like cold fusion will over time be able to substitute fossil fuels and nuclear power, saving the world from disastrous air pollution and also from radiation hazard. It will decrease the cost of production in virtually every industry from steel to agriculture, and it will also lower all transportation costs. Furthermore, all kinds of vehicles, from cars to drones, will be able to operate for months without recharging. Together with technology for autonomous vehicles, the implications for transportation will be huge, and for all types of military operation too. Add to this what Rossi has claimed recently on his blog—*Journal of Nuclear Physics*—that a compact wafer based third generation E-Cat under development, called E-Cat X, produces either heat or direct electric power, with the same

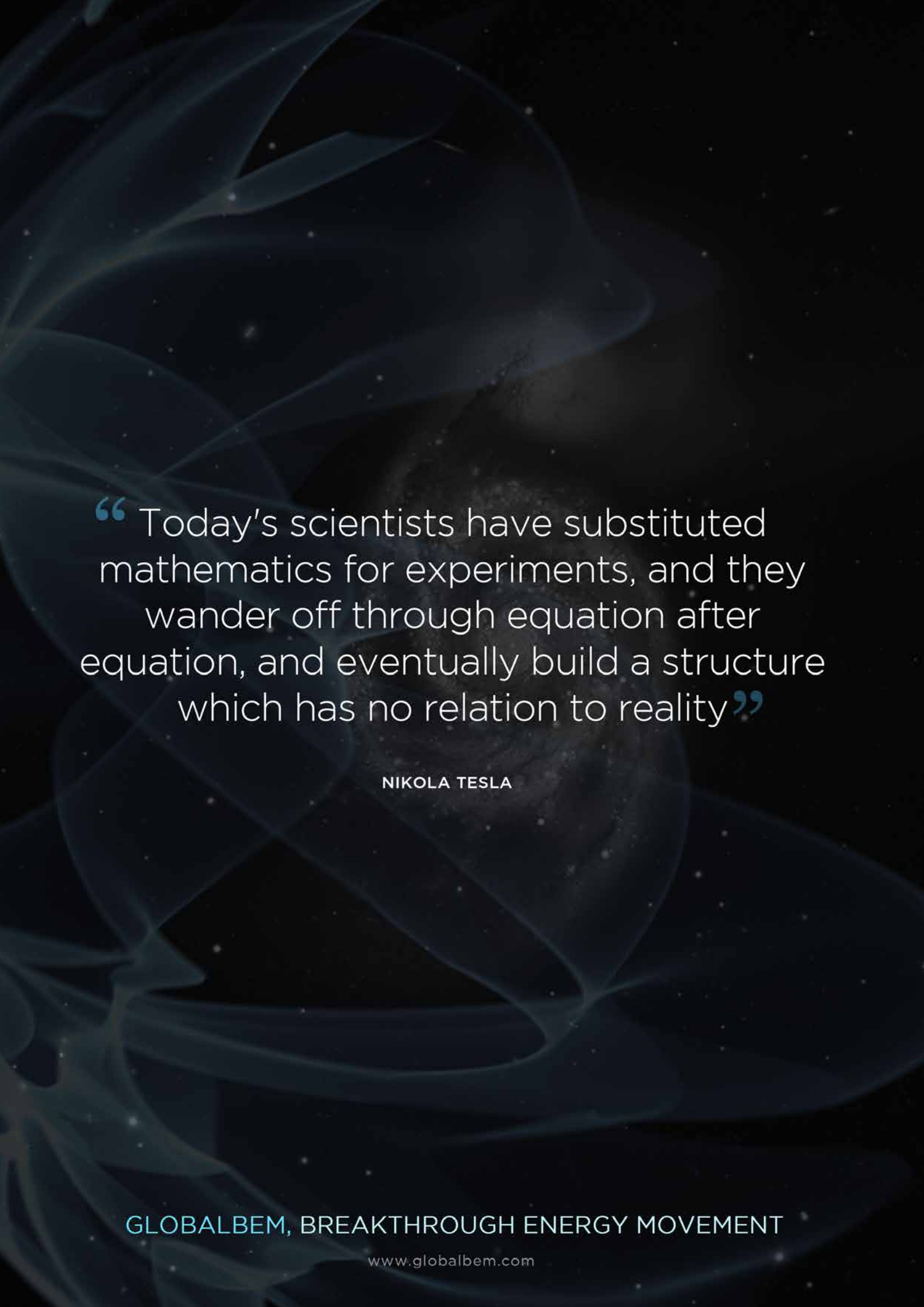
efficiency as earlier E-Cats. This has yet to be demonstrated, but from my experiences during these years with Rossi I wouldn't be surprised if it's true. The step to power e.g. electric vehicles without the need for powerful batteries will then not be long, while also accelerating the potential for many households to go off-grid. Overall, however, the main consequence of cold fusion as an energy source is that energy could go from being controlled by a few to being easily accessible to everyone on Earth. Just as what happened with information in a few decades, it in turn could bring a change of the same significance as the Internet, both for individuals, society and geopolitically. Hopefully this abundant access to energy will not decrease the ongoing efforts to optimizing energy consumption all over the world. On top of this, from a scientific perspective, solving the theoretical mystery of L.E.N.R., might according to involved scientists open up completely new aspects on our knowledge of matter and energy. Yet, most scientists still consider all this to be impossible.



## MATS LEWAN FOR OVER 15 YEARS, JOURNALIST AND PUBLIC SPEAKER

*Mats Lewan, author of the book "An Impossible Invention" - has been writing about technology and science, based on his profound knowledge in the field. He is committed to the issue of where our world is heading and how people and technology interact. Lewan is a sought-after speaker, who focuses on the major changes, challenges and opportunities that the accelerating evolution of technology means in our personal and professional lives. He has been working for more than ten years as a technology reporter for the leading Swedish technology magazine Ny Teknik. He also started the forward-looking Swedish digital magazine Next Magasin of which he was the editor for the first few years. Previously Lewan worked internationally as a freelance journalist, and as a reporter for C.B.S. CNET News in San Francisco while attending the Innovation Journalism Program at Stanford University. Mats Lewan has a Master of Science degree in Engineering Physics from the Royal Institute of Technology in Stockholm, Sweden. He is fluent in English and Italian, as well as in Swedish. He lives with his wife and two children in Stockholm, Sweden.*





“Today's scientists have substituted mathematics for experiments, and they wander off through equation after equation, and eventually build a structure which has no relation to reality”

NIKOLA TESLA

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