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SUPPRESSED INVENTIONS - A BOOK REPORT

By Hal Fox

Johnathan Eisen, Suppressed Inventions & Other Discoveries, Avery Publishing Group, Garden City Park, NY, 546 pages, indexed, references, illus., c1999, ISBN 0-89529-809-0.

If you are an optimist, this is a book you won't want to read **but you should**. The prevailing thesis of this book is that many inventions, medical cures, many energy-related inventions, and other valuable discoveries have been suppressed. Some inventors have been threatened, shot, or killed. Here are the major section headings from the table of contents:

The Suppression of Alternative Medical Therapies

The Suppression of Unorthodox Science

The Suppression of UFO Technologies and Extraterrestrial Contact

The Suppression of Fuel Savers and Alternate Energy Resources

As an expert reporter on new-energy topics, this book review emphasizes the energy-related discoveries. The energy section begins with the story of Nikola Tesla, continues with the energy-producing invention of Lester J. Hendershot, T. Henry Moray, water as a fuel, Archie Blue, Francisco Pacheo, automotive developments (especially carburetors), Charles Pogue, and suppressed fuel savers.

While the author and his selected writings support the title of the book, they do so at the expense of occasional alternative explanations. For example, the failure of the automotive industry to adopt fuel-saving devices is adopted as suppression when it may be just **management inertia**, "If it ain't broke, don't fix it." The trashing of laboratories (many citations) may not always be from active suppression. Some embarrassed inventors, unwilling to admit to their investors, that they couldn't solve the problem they were so sure they could solve, trash their own laboratories and move on. Some deaths of inventors, such as T. Henry Moray and Nikola Tesla,

may just have been from old age without outside help. Nevertheless, the author makes a strong point that there was, is now, and probably will be the suppression of inventions in the future.

There is no question but that inventions and discoveries have been suppressed. This author has been reporting for almost ten years on the partial-success in suppressing cold fusion. This suppression is briefly mentioned. The reader should feel indebted to the author and those who helped provide information for this book. Anyone who is working the in the fields of new medical or new-energy discoveries should treat this book as a text book on what not to do. All other readers should join in the sharing of information about new, proven technologies and new medical discoveries (even if they come from herbs and not from the pharmaceutical companies). The goal should be to spread information in order to minimize suppression.

New inventions cannot be suppressed if the information is shared worldwide on the internet. It is suggested that in the next edition of this book, the author adds a chapter on the value of dissemination of information. Much of the suppression of new inventions appears to be from the unwillingness of many inventors to share their information. Many inventions have been bought up and shelved due to greed and the fear of loss of existing markets. Many inventors died with their secrets because they were unwilling to share their secrets (usually for another type of greed: the fear of losing vast wealth). Some inventors just lacked the courage or the means to battle the status quo.

Recently, the medical establishment, through the Food and Drug Administration tried to force herbal remedies to be handled through the FDA and cause producers to spend millions of dollars to prove that a specific herb was beneficial. The hue and cry from

producers, herbalists, and users plus the support of members of Congress (such as Senator Hatch) plus previous legislation in favor of natural substances, caused the FDA to back off. There is a real lesson there and a real lesson given to us by Johnathan Eisen. Individuals can be suppressed. It is much more difficult to suppress large groups, especially in free countries. It is much easier to suppress a secret. It is much more difficult to suppress shared knowledge. **Buy the book.** Sit down and read it. Then find a real invention or discovery that unbiased professionals will agree has commercial potential. The next step is to stand up and make your opinion mean something. Spread the word. Help get financial support for the invention. Help get political support. **But make sure that you are not supporting some impractical idea.** Example: anyone with a little working knowledge of internal combustion engines can improve a carburetor to get the extra miles per gallon. All you have to do is to make a leaner mixture. But most of the carburetor inventions would not allow you to drive from the hot desert to the cold ski slopes without considerable carburetor adjustments. Many of the better-mileage inventions are not commercially practical and were not suppressed, they died for lack of proper engineering support. There used to be an annual **most miles to a gallon** contest. Lean mixture, very careful acceleration, constant speed, hard tires, etc. and nearly all the entries could get 80 to 100 miles per gallon. Obviously, that is not a commercial method of improving gas mileage.

Here is another example of a highly-touted invention that **today** is commercially impractical: Tesla's world-wide broadcast of power. One could tap this energy from any place in the world, **provided that you only used a small amount of power.** Tesla calculated and stated that there could be enough power generated to complete with Niagara Falls. Today, Tesla's entire power output from tuning up the earth to ionosphere capacitor wouldn't power Salt Lake City. Tesla's idea was marvelous but impractical. Tesla's solution to use alternating current rather than direct current was an enormously more valuable idea. The widespread use of Tesla coils would disrupt enormous amounts of communication. Tesla coils and other arcing-type devices should only be used in a **screen room** which keeps most of the electromagnetic interference isolated.

Jonathan Eisen has done the world a great favor by writing this compendium of suppressed inventions. It is the kind of book that may cause some people to think. Thinking may not be popular, but it is

important. Thinking people can be moved to talk action. In the case of suppression of inventions, the best place to start is with the biggest suppressor: The United States government. Anyone who develops a technology using government funds should understand that the government has the right to classify such work -- it is often desired for national security, such as with new weapons development. **However, the government should not have the right to classify the work of inventors who do not use government funds.** This is the most important place to begin to stop the unnecessary suppression of inventions! If you want to do something for your country, get the facts about the law that allows the government to suppress inventions -- then get on the internet and drum up support to change the law. You will become a hero.

EVEN SIGMUND FREUD

Courtesy of Tom Bearden

Even Sigmund Freud commented on the suppression of innovation by science, in these words:

"There are three steps in the history of a great discovery. First, its opponents say that the discoverer is crazy; later that he is sane but that his discovery is of no real importance; and last, that the discovery is important but everybody has known it right along."

Arthur C. Clarke himself summarized the treatment of scientific innovation today in these dry terms:

"If they [quantum fluctuations of vacuum] can be [tapped], the impact upon our civilization will be incalculable. Oil, coal, nuclear, hydropower, would become obsolete - and so would many of our worries about environmental pollution." "Don't sell your oil shares yet -- but don't be surprised if the world again witnesses the four stages of response to any new and revolutionary development: 1. It's crazy! 2. It may be possible -- so what? 3. I said it was a good idea all along. 4. I thought of it first." Arthur C. Clarke, in "Space Drive: A Fantasy That Could Become Reality" NSS ... AD ASTRA, Nov/Dec 1994, p. 38.

MODERN TIMES

Those who can work, do work.
 Those who can talk, use cell phones.
 Those who can write, use laptops.
 Those who can't, watch TV or surf the web.

Fusion Briefings

TWO THOUGHTS ON THE TEMPEST

From the *New York Times* web site / science forums, "Science in the News" on April 8 1999.

Two responses to "A Tempest in a Test Tube 10 Years Later," by William J. Broad, published *NYT*, Mar 23, 1999.

To every one who is discussing the Femtosecond Science and Fusion:

Please beware what was reported in TEST TUBE experiments by Pons and his cohort from UTAH and what is being done under the label TABLE TOP are as different as DAY & NIGHT The Utah claims were patently wishful thinking,,,, and I wish them all the freedom of wishful thinking.

The idea of using lasers and plasma studies are not to be talked in the same breath as Utah Cold Fusion, that is asking someone to listen to Beethoven's 9th and at the same time compare it to howls of a hyena.

/s/ mercury610 - 01:16pm Apr 8, 1999 EST (#243 of 244)

Your article of March 23, "A Tempest in a Test Tube, 10 Years Later," by William J. Broad, seems to have been the catalyst to trigger an onslaught of table-top fusion activity. The most recent is reported today in

COLD FUSION BIBLIOGRAPHY

Just updated and revised, the most complete bibliography of New Energy research papers and articles [predominantly cold fusion] is available again from the Fusion Information Center on 2 disks [PC]. Containing over 2500 references, it traces the progress of cold fusion research since its beginning in 1989 through the abstracts and articles published in Fusion Facts, the world's first cold fusion newsletter/magazine, and abstracted from other scientific publications. Specify WordPerfect v6.1 version, or ASCII version. \$15.00 ppd.

Nature magazine, April 8, "Nuclear Fusion from Explosions of Femtosecond Laser-heated Deuterium Clusters," (www.nature.com), also recently reported in *US News & World Report*, April 5, 1999, "Fusion in Miniature." This is no surprise to Sir Arthur C. Clarke. In the June 5, 1998, issue of *Science* magazine (www.sciencemag.org), he writes about table-top

fusion, "The literature on the subject is now enormous, and my confidence that the "new energy" is real, has slowly climbed to the 90th percentile and has reached the 99% level." In issue 22, vol. 4 of *Infinite Energy* magazine (www.infinite-energy.com), Sir Arthur also states, "If a plasma fusion rocket could be developed, it would open up the solar system, just as the airplane opened up this planet." His premonition is very accurate. We have been studying a nano-scale miniature fusion plasma of sustained duration within gas vapor of hydrogen or deuterium and free-floating iron atoms. The iron atoms act much like molecular sized damping rods to hold and sustain the fusion reaction in the same manner as in nuclear fission. Our application is directed towards fusion rocket power. Our web site has received widespread popular interest and is the first hit for "Space Ventures" in Yahoo search. Sir Arthur C. Clarke has sent us a very complimentary email which is shown as a link on the site.

/s/ chuck_bennett - 02:42pm Apr 8, 1999 EST (#244 of 244)

Courtesy of Chuck Bennett, President, Space Ventures, P.O. Box 277721, Sacramento CA, 95827
phone: 916-361-0722
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Rad-Waste

NEW NUCLEAR WASTE PLAN

Courtesy of Richard Shamp

Joby Warrick, "U.S. to Offer Nuclear Waste Plan, *National News*, 25 Feb 1999, p A2.

EDITOR'S SUMMARY

Energy Secretary Bill Richardson has offered a new plan to handle the 77,000 tons of highly-radioactive spent fuel pellets that are currently stored on site by various nuclear power plants. The DOE was supposed to take possession of these spent fuel pellets in 1998, however, as there was no place

prepared to store this radioactive waste, the DOE has had to work out other arrangements. President Clinton is opposed to the creation of a special temporary storage site at or near the Yucca Mountain where several billion has been spent to determine if that Nevada site is suitable for long-term storage. The real issue (but not known to the writer) is the current development of methods for on-site stabilization (transmutation) of the spent fuel pellets.

Tony Batt, "House panel balks at Richardson's waste plan," *Las Vegas Review Jrnl*, March 13, 1999. (Courtesy of Gary Vesperman.)

EDITOR'S SUMMARY

The House panel gave a chilly reception to keeping the nuclear wastes at utility sites. Rep. Joe Barton (R-Texas) is pushing a bill to set up temporary nuclear waste site at the Nevada Test Site no later than June 3, 2003. Richardson told the committee that DOE would need an added \$6 billion for the waste repository. [My! What would \$6 billion do in developing on-site waste remediation? Ed.]

TRANSMUTATION

Courtesy of Remy Chevalier

"Transmutation Of Nuclear Waste" *New Scientist*, 16 Jan 1999; p 31.

SUMMARY

This is a three-page article on potential and future of transmutation technologies. Two websites are suggested for further reading: www-adtt.lanl.gov and www.cern.ch/CERN/Announcements/1994/Energy/Amplifier.html

Miscellaneous

MILLENNIAL SCIENCE

S. Inomata (President, JPI., Niigata, Japan), "**Prospect for the 21st Century Science**," revised English translation, *JPI NEWS*, Jan 1999.

By the success of the 2nd Int. Symposium on Consciousness, New Medicine and New Energy, this year 1999 has become a year of great leap forward to the 21st century. There were two innovations in

science at the turn of this century, from the 19th to the 20th century. The one is discovery of quanta by Max Plank in 1900. The second is the special relativity proposed by A. Einstein. And the 20th century has been the age of quantum mechanics and relativity. However, the 20th century science began to reveal serious difficulties since early 1970. In particle physics, proton decay experiments to validate grand unification theory (GUT) has been unsuccessful and missing neutrino problem in solar energy has not yet been solved. Furthermore, high temperature super-conducting phenomenon in ceramic material, cold fusion in an electrochemical reaction, and N-machine are unable to be understood by the paradigm of present natural science since the 17th century. Adding to these, metal bending, mind-over-matter phenomenon, has been confirmed scientifically and the intrinsic limitations of the mass-energy natural science manifested itself. I think a key-word of the scientific revolution which humanity is now experiencing is "consciousness" (Ki, spirit), which was neglected at the onset of the present natural science in the 17th century. The problem to incorporate "consciousness ingredient" into present science was discussed at the 1st Int. Symposium on Consciousness, New Medicine and New Energy, and it was also discussed in the second symposium last autumn.

And it resulted in the radical shift of our scientific world view and scientific paradigm. It is really deserved to be called as the second Copernican revolution. How does the shift influence on the existing science? First, as to relativity, it has the aspect, by the mathematical hypothesis of constancy of light speed, to expel non-material aether (Ki, spirit) which the 19th century physicists thought as the medium of EM propagation, and thereby securing the mechanistic nature of Newtonian science. Therefore, it could not survive into the 21st century and its reign would be limited within this century. Furthermore, according to the new scientific world view, the physical world is not closed by itself, but is connected to the shadow or consciousness world. This implies the possibility of violation of various conservation laws in conventional physics; such as the law of conservation of energy and that of angular momentum. Thus, conventional physics may not survive.

Humanity may have a prospect of brand new scientific world view and paradigm in the new century to come shortly.

LIGHT MAY SLOW DOWN

Courtesy of Remy Chevalier

Roger Highfield, (Science Editor), "Scientists put brakes on light," *The Electronic Telegraph*, issue 1364, Thursday, 18 February 1999.

Scientists have slowed light down..... way down, reported Dr Lene Hau of the Rowland Institute for Science, and Harvard University. By passing it through an illuminated atomic cloud, they have cut the speed of a pulse of yellow laser light from 186,000 miles per second to 0.01 mile per second and plan to reduce it further to a crawl of about half an inch a second.

Because glass has a refractive index which is larger than that of free space, light is already known to slow down a little when it enters a piece of glass. Quoted from the magazine: "Dr Hau said: "We are using a much more interesting mechanism to slow light down by a factor of 20 million." The trick is to use one lightbeam to alter the refractive index of an unusual medium - a cloud of sodium atoms cooled to ultra-low temperature known as a "Bose-Einstein condensate" - in such a way that it can slow down a second pulse of light. The trick has a number of applications, Dr. Hau said, such as converting infra-red light into blue light. "In the future, this could be of importance for laser light projectors -- it is hard to generate blue light otherwise."

With a view toward future practicality and commercial applications, such things are suggested as: converting infrared light to the visible spectrum easier, reducing noise in communications, and creating light controlling switches for the new optical computers. Dr. Hau said: "These possible applications are, of course, for the future -- perhaps 10 years down the line if we get to work on it. Right now we have an experimental set-up where we are pushing technology to the outermost limit. We'll have to figure out how to make this into a practical instrument."

THOMPSON SCATTERING

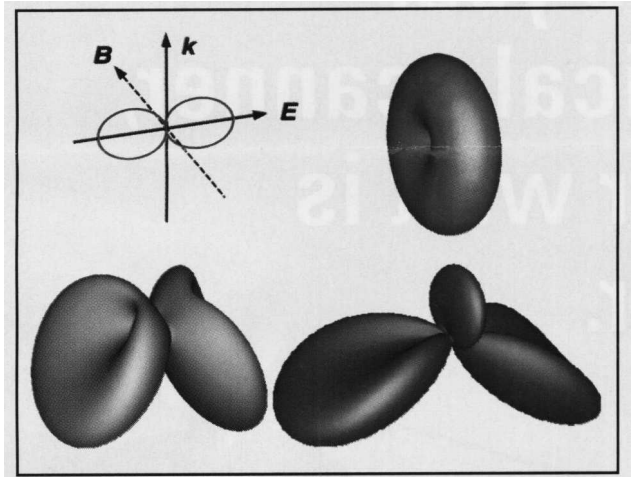
Courtesy of Chuck Bennett

Daniel C. McCarthy, "Thomson Scattering Made Relative," *Photonics Spectra*, March 1999.

EDITOR'S REVIEW

Physicists at the U. of Michigan Center for Ultrafast Optical Science have used an ultra-fast pulsing laser

to pick up and drive electrons. Based on "relativistic Thomson scattering", the researches were able to deduce the patterns of motion made by the oscillating electrons. See a scanned copy of the picture from the article. Note that the pattern on the upper right is the same pattern that Dr. Jin has computed as being a stable pattern for a high-density, charge-cluster of electrons - a toroid shape.



These computer generated shapes represent complex patterns of oscillating electrons formed by the intense electromagnetic fields from a laser beam. Researchers observed that the electrons scattered radiation with wavelengths that were harmonically related to the original beam. (Courtesy U. of Mich.)

COMING - TAPPING ZPE?

Courtesy of John Allan

Bernard Leitaer (formerly with the central bank in Belgium), "Awakening the Goddess," *Living Lightly with Positive News*, issue 7, Spring 1999, pp 8-9.

EDITOR'S SUMMARY

Leitaer cites three waves that are pending: shift in money, burgeoning information, and zero-point energy. Leitaer cites the energy wave as being on the horizon and not yet perceived by the media. So true! His definition of knowledge is information that has been digested, integrated, and used by the person who has been exposed to information. That is a good definition. The article correctly states that zero-point energy (ZPE) comes from space itself. Incorrectly, due to lack of information, the article states: "Mainstreaming this energy may take awhile, and this process, this wave of nw energy is still below the level

of the horizon." Maybe in England, but not in Utah or California. Of the information wave, the internet, Lietear writes, "...produced by the Pentagon as a result of the Cold War. ... It is the technological and evolutionary tool to bring us to unity beyond diversity. If you believe the information revolution is a big thing, wait until you see the monetary revolution. ... In fact, money is not a thing -- it is an agreement. It lives in the same space as political parties, as gender, as marriage." In an unusual insight into our changing world, Leitaer tells us that a recent survey in American found that about one quarter of society no longer accepts the media's paradigm or value system. "These people are aware that things have to change -- that inner work is necessary as well as outer work. In the Western world alone it is estimated that there are over one hundred million people who recognize this [new paradigm]."

TESLA SOCIETY - HARD TIMES

Courtesy of Roy Stewart

The International Tesla Society, Inc. has fallen on hard times and has taken out bankruptcy. We regret that this society has not managed to survive. It is rumored that someone else will try to pick up the pieces and reorganize the Tesla Society.

THE OIL GLUT

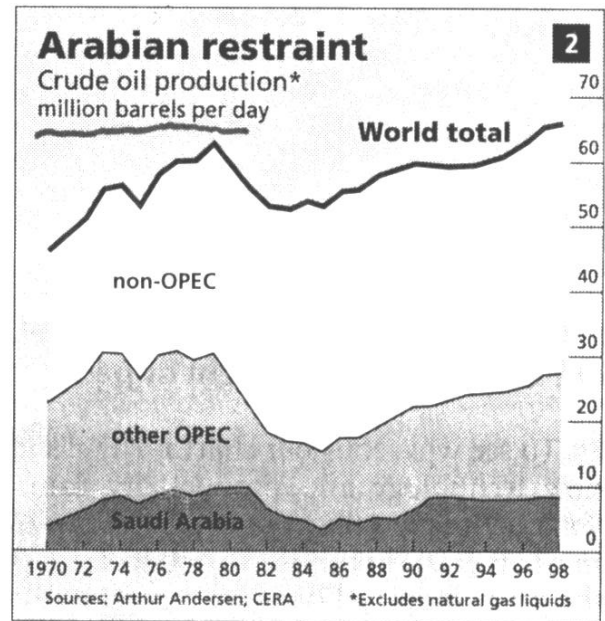
Courtesy Dr. Win Lambertson

Staff, "Drowning in oil," *The Economist*, March 6, 1999, pp 19-22.

EDITOR'S SUMMARY AND COMMENTS

This article came just after gasoline prices have risen by ten cent per gallon at the pump during the past week. However, an oil glut may become a real issue, not because the oil-producing and exporting countries (OPEC) are producing too much oil, but hopefully, because we have better new-energy systems in use. Then the oil can be saved for future use as chemical feedstocks to make the thousands of products that we use every year from petrochemicals. Don't burn it, conserve it for future generations.

Therefore, the future impact of new-energy device commercialization (which now has begun) will be some economic disasters for some nations such as Iraq, Iran, Nigeria, Saudia Arabia, etc. Some of the members of the upper class in these countries may have to go to work for a living. The good news is that



the non-OPEC nations, especially those that produce little or no oil, will be able to have new-energy sources.

MONEY CHANGING

Courtesy of John Allan

Richard Douthwaite, "The Ecology of Money," *Living Lightly with Positive News*, issue 7, Spring 1999, pp 10-12.

EDITOR'S REVIEW

This article updates the biblical injunction that "the love of money is the root of all evil." The author states, "Ninety-seven percent of all the money that gets into circulation is created by the banking system - it doesn't come from the government at all. ... Sixty percent of the money in circulation in this country (UK) is only there because people have taken out mortgages." The most interesting part of the article is the discussion of Local Exchange Trading Systems (LETS). Here are some interesting quotes: "So an essential part of building sustainable communities is that they must have their own money system. LETS does take a step toward this..." About experimental currency systems: "One of these, and the one I am most closely connected with, is in rural Ireland." About another currency system in the UK: "...it is being launched by Rural Forum Scotland and will cover about half of the rural area of Scotland." Finally: "The way I see the future developing is that we conceive of a sustainable world, not being

produced by a One World International Agreement ... There will be a myriad of micro-economies which have adjusted their systems of production and developed cultures so that they can live within the limits of their own place. Each of these regions will have its own currency, yet there will also be multi-national currencies like the Euro, and there will probably be a world currency too." The author extols the virtues of many LETSystems. Maybe we should start or join one for the coming turn of the century problems.

"There is no room in good science for challenging the known Physics of Theoretical Laws. Far too many mortgages are involved."

-- Attributed to Nicholas Copernicus.

Articles

THE DYNAMICS OF NEUTRINOS

By Chuck Bennett

President, Space Ventures, Sacramento, CA

This monograph is a continuation in a series of articles [1-4] dedicated to the creation of a unified theory that encompasses the known forces of nature. A postulate has been established that neutrinos possessing mass pervade the universe thus creating a "luminiferous medium." A foundation for the dynamics of the neutrino medium is presented herein. The mass energy equation can be interpreted as a statement that mass is comprised of a condensed neutrino group. Therefore, energy propagation as evaporated mass can be re-written in terms of a differential rate. The equation, $E = mc^2$, is differentiated with respect to radial distance, r . The rate of electromagnetic energy propagation outward is inversely proportional to the rate of mass gradient inward. The proportionality constant is the speed of light squared. Thus the gravitation equation is expressed by the following equation:

$$dE/dr = - dm/dr c^2$$

The above expression summarizes how gravitation is caused by electromagnetic gradients radiating

outward from a large body. Gravity and light energy are one in the same by an inverse relation and a proportionality constant, c^2 . As light energy radiates outward, a bias in the mass-energy field is established across all spectrums of light energy. The effect is amplified by the power of mass energy. The gravitation effect is subtle, but very little is needed to move mass when the amplification factor is c^2 . Note that the gradient, dE/dr , has the units of force due to the definition of energy as force times distance. Also note that dm/dr is a mass gradient and this describes the gravitational field.

Then gravity may be described as "an æther wind of neutrinos." This establishes gravitation as an on going and continuous condensation of the neutrino medium. Michelson and Morley would have demonstrated a wavelength shift if one of the arms of the interferometer had been pointed straight up. And this has indeed been proven in terms of the so called red or blue shift of photons traveling towards or away from the earth's center along a gravitational vector.

Einstein's equivalence principle is another statement that gravity is the "neutrino æther wind." Free fall is more inertial than fixed at the earth's surface because in free fall, objects appear to be weightless. An accelerometer that has not been reset to zero at the fixed state (a pure accelerometer) will read zero in free fall and will read one g fixed at the earth's surface. This means that objects fixed at the surface of the earth are equivalent to having an acceleration of one g and when in free fall, there are no compressive forces. This is typically explained by the so called body force of gravity that acts on each and every point with equal force so that in free fall there is no registration of compressive force.

In free fall, there is no force because free fall is the process of the neutrino æther accelerating inward at one g. In other words, the neutrino æther is inertial space and to be fixed against an acceleration of the neutrino æther, is to be fixed against the acceleration of inertial space. Spin arrests the action of gravity and causes mass to stabilize in an orbit or an action that resembles gravitational repulsion. Since heat is a form of spinning mass, the negation of gravity may be possible with a contained thermal gradient that has a very large magnitude of gradient and is opposite the gravitational field.

The above approach introduces the view of a "Bernoulli effect" on all types of fundamental particles. When a particle flows past another particle in a close tangential flyby, a void is created. Then the first particle begins to fill the void. The principle

of void filling is a fundamental law of nature. This is why the vortex feeds on itself to get stronger and stronger with increasing tangential velocity towards the center until a threshold is reached and matter or neutrino æther goes out through the top and/or bottom of the vortex center "eye."

But this is the Bernoulli "void filling" principle in action. The inward acceleration of inertial space is a secondary outcome of the flyby tangential effect that manifests as gravity. This provides a view that does not have to treat the neutrino æther as having finite compressibility. The neutrino æther conforms to fit the manifestation of the natural realm in a way that explains the effects observed.

Further reasoning can be applied to explain the other 3 forces of nature. The various forces are simply due to the Bernoulli flyby void filling effect at different proximaties with different constants of magnitude. Gravitation is due to the tangential action of electromagnetic gradients that permeate all bodies and pull items inward described fundamentally by Newton's laws.

The strong force is a similar action at a hyper magnified level. The electron is a spherical vortex that is tumbling through space. Attraction cannot be distinguished from repulsion because the tumbling careening action of the flyby will look like a repulsion when two electrons attract each other and result in a "powered" flyby. A positron and electron attract because a positron is a reverse flow spherical vortex so there is always superposition of attraction for all points in the merger of the two flow fields.

The proton attracts an electron because the proton is more stationary and stable and can anchor the Bernoulli void filling effect to cause the electron to have a stable orbit. The other forces of nature are merely the same effect on a different scaling basis. This gives a universal theory born from the neutrino æther. Classical mechanics with waves, forces, collisions, etc., are outcomes of the basic action. Waves result when streams of particles group together and travel according to the motion template of a helical spiral pattern that links the action of the particle to a sinusoidal wave as seen from the side view. Thus the neutrino æther possesses a high degree of orthogonality.

In conclusion, the neutrino æther will conform to make all known phenomena exist in a way that provides the laws of nature. Many new variations of a resurrected æther have recently been proposed. The concepts presented herein are just another

addition to the ongoing effort to reestablish a workable æther with the neutrino of finite mass as the basic building block of the æther.

Previous Articles:

1. C. Bennett, "The Luminiferous Medium as a Sea of Neutrinos," *J. New Energy*, Summer/Fall, 1998, vol 3., No. 2/3, pp. 30-32.
2. C. Bennett, "A Quantized Æther", *New Energy News*, November, 1996, vol 4, no 7, p.7.
3. C. Bennett, "Einstein's Mass Dilation as Æther Drag", *J. New Energy*, Spring, 1997, vol 2, no 1, pp. 74-76.
4. C. Bennett, "Light is the Ghost of Mass," *New Energy News*, Vol. 5, No. 2, June 1997, pp. 8-9.

NUCLEOVOLTAIC CELL

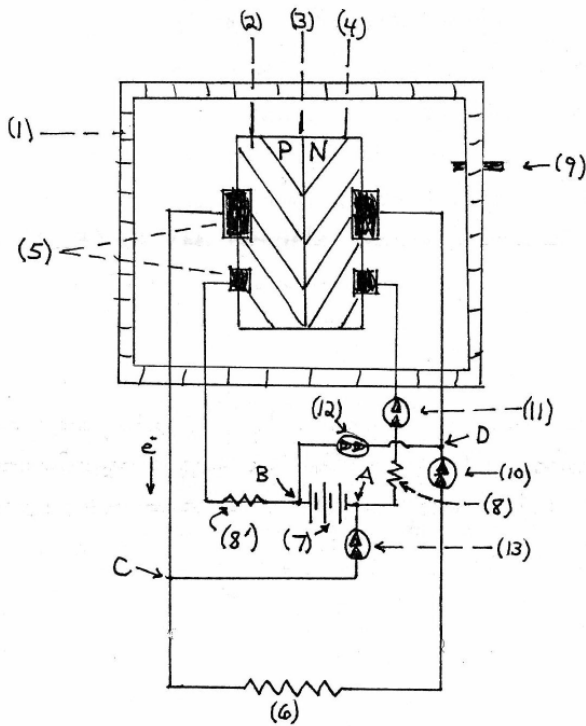
Courtesy of Pat Bailey

David Moon asked me to send you this. A drawing is attached. A new approach to obtaining energy from the cold fusion reactions, by converting the energy directly to electricity, was disclosed in an article, "The Nucleo-Electric Effect" (*Infinite Energy*, number 13-14).

Following is a more detailed description of one cell design based on this concept.

Cell Design

Strong Pressure vessel (1) contains H₂ or D₂ gas. P-type semiconductor (2) has NP junction (3) with N - type semiconductor (4) that has been coated with a thin film of hydrogen -active metal (eg. Pd, Ni or Ti). Electrical contacts (5) connect the semiconductors to an external circuit (6) as well as to a rechargeable battery or energizer (7), in series with two large ohm resistors (8,81), which provide a forward - biased voltage across the NP junction greater than the contact potential set up in the reverse direction (P to N) . Hydrogen or deuterium gas is admitted to the evacuated vessel through valve (9). Pressure is above atmospheric, optimum pressure being determined by experiment. Hydrogen nuclei absorbed into the interface between the metallic film and surface of the N-type semiconductor react to drive excess electrons across the junction to the P side and out to the external circuit. PN-type rectifiers (10-13) in the circuits assure flow of electrons as indicated. These are heavily - doped tunnel diodes having less electrical resistance than other impurity semiconductors.



Operation of cell

The rechargeable battery or energizer (7) applies a voltage to the PN junction contrary to the equilibrium contact potential set up at the junction. A diffusion of electrons from N to P across the junction begins, but resistor (8) is designed to limit the rate of discharge of the battery (7). If the external circuit (6) is closed, it may also contribute slightly to the current being applied. Absorption of sufficient H or D into the N-type semiconductor will, according to the "swimming electron layer" (SEL) theory (Miley, Hora), result in nuclear fusions or transmutations. It is proposed here that the nuclear energy released will excite electrons in the semiconductor from the valence band into the conduction band, at a worthwhile efficiency, thus generating an excess electrical potential. Initially, the current flows entirely through the external circuit (6).

When the generated current reaches the energy, such that the potential at C exceeds the potential at A, then some current (e-) will flow from C to A. At point A, electrons have two possible pathways: from A to N to P to B, or from A thru (7) to B. The latter is the "recharging cycle" for the battery and should occur when the internal resistance of the battery (7) across AB, designated r7, is less than the total resistance from A to N to P to B. That is, when $r7 \ll R8 + R11 + RNP + R81$. The selection of resistors (8

and 81) must give enough ohms to steer the electron flow from A to B thru energizer (7) when V (at C) exceeds V (at A), in order to recharge the battery (7) during normal cell operation.

Current from the cell divides at C during normal output. To be a useful source of d.c. electricity, most of the electron flow from C to D will go through the external circuit (6). Therefore the total resistance from C to D passing through the battery (7), which is $R13 + r7 + R12$, will be considerably greater than the external resistance, $R6 + R10$, yet will allow for recharging. Further, to prevent the loss of electrical energy from P to B to D during operation, $R81 + R12 \gg R6 + R10$. If it happens that reactions in the N-type semiconductor fall below the minimum operational level, then V (at C) becomes less than V (at A), and battery (7) reenergizes the cell.

Choosing the correct components for this nucleo-electric cell, including the proper ohm resistors (8 and 81), can lead to a reliable*, rugged, self-sustaining and long-lasting source of direct current for many applications.

*Note : tests may prove individual cells produce varying d.c., but that cells in combination generate an acceptably steady current.

David Moon Minneapolis, MN, USA, September 18, 1998

KNOWLEDGE KNOWS NO BORDERS AND NO LIMITS.

The title is inspired by the mission statement of the Slovakia-based company called INTER-ENERGORESURS, a knowledge-intensive enterprise having as primary source of revenues licensing agreements for its really earth-shaking and new breakthrough technologies.

The high quality of the portfolio of licenses of the company is based on the collaboration with front-line scientists and inventors from Russia and Eastern Europe, places which temporarily are lacking funds but have plenty of resources of first class little gray cells. Beyond its 17- letters name, suggesting that it is focusing on "international energy resources", attested by the three "generations" of YUSMAR devices which are world leaders in energy saving, the company offers unique, genuine technological 'gems' as:

- an INDUSTRIAL process for production of fullerenes, the very first worldwide- an opening toward thousands of high-tech applications;
- a handy, on-the-site, process for "highly reactive hydrocarbon mixtures," a stuff with unmatched efficiency for oil spill removal;
- a hyper-efficient filler for rubber and plastics;
- innovative processes for esthetically and optically perfect high-temperature monocrystals and ceramics;
- processes for the manufacture of rare-earth metals and for isotopes of osmium;
- an invincible method for the protection of documents, banknotes, credit-cards etc. against counterfeiting by using the isotope osmium-187 as marker.
- a device for waste-water treatment, YUSMAR-PP-BIO, highly efficient and with a broad range of applicability.
- vortex type air coolers/heaters with the best working parameters and performances worldwide.

All this licenses are fully backed and supported by patents, know-how reports, international certifications and, last but not least by the prestige of the inventors.

And this is only the start. The company, which hopefully will get a short acronym and brand-name, IER, (shortness of name is a sign of greatness) was founded in November 1997 by Mikhail Pavlovskiy, entrepreneur from Ukraine who is the general manager of IER. His primary motivation and the raison d'etre of the company is ecological awareness and care, pollution being a chronic problem for our generation and especially troubling and acute for IER's geographical area.

In Pavlovskiy's vision, the primary task is to reduce significantly the consumption of fuels of all kind, solid, liquid gaseous; he dreams about a fuel-less Terra sometime in the 21st century.

His associate and close friend, coming from the Moldova Republic, Dr. Yuri S. Potapov is inventor emeritus of his country, member of the Russian and Ukrainian academies, owner of the US award "Torch of Birmingham", an Edison of our age. Potapov's YUSMAR machines generate heat and electric power from water. The newest devices are working completely autonomously. These claims can be verified at the sites, IER Company in Rimavska Subota and YUSMAR Company in Kishinev.

Other consultants/associates/supporters of the company are:

Ilya Varshavski, the renowned inventor of rocket engines, of hydrogen based engines with closed loops, founder of the scientific field called "energy-accumulating substances", president of the "Albert Einstein" International Academy for Energetics, leading member of the Russian Academy.

Henry Gelperin, member of the Russian Committee for Environmental Protection, member of the Russian Academy, of the International Academy for Nature and Society, the academies of cosmonautics, of noosphere etc., etc.;

D. F . Baziev, Ph. D., member of the Russian Academy of Natural Sciences;

Lev G. Sapogin, professor, founder of the "unitary quantum theory";

Peter Gluck, Ph. D., from the Institute of Isotopic and Molecular Technology, Cluj-Napoca, Romania, professor of management of technology and of ecological energetics, pioneer of the consulting activity in his country.

This gives an image of the tacit knowledge supporting IER. As for the explicit knowledge, this can be evaluated on the basis of a collection of over 400 patents collected and owned by the company.

The company's strategy is based on the firm belief that all the citizen's of Earth are entitled to a clean environment and to energetical prosperity. Therefore IER is ready to start discussions about selling licenses and patent rights to all the interested parties. The company thinks that in this new world, communication beyond geography and collaboration beyond history is indeed possible.

The coordinates of the company:

INTERENERGORESURS
97901 Rimavska Subota
ul. Fucikova, SLOVAKIA

Tel: 0042 1866 5631432
Tel/Fax : 0042 1866 5631144
Mobile : 0042 1903 8033222
E-mail: pminter@mail.pvt.sk
Website in construction!

THE PARAMETERS OF THE UNIVERSE

By Bert Schreiber (Bellaire, TX)

BRIEF REVIEW

A short review will be undertaken to refresh the readers minds. Every Mass acts as if its entire Force is concentrated at its exact center of Mass. Therefore, every Mass acts as if it was at the center of the Universe. That ended the SEP. There is that Marmet Equation which now permits all the parameters of the smallest Universe, which theoretically can exist, up to our Universe, and thence to the maximum **limit** to be calculated. [previous article *NEN*, Jan 1999]

There needs but to study (19-8) a bit. Setting Mass of Universe, M_U to the left side, then there is on the right side, the value which gives its radius. It is **important** to note that the calculation gives the R to another identical M, so that they can be **theoretically**, or will be in reality, attracted to one another, resulting in the acceleration of same, whether or not one is fixed and the other can move, or both can move. From that M_U calculation of r, then its diameter, and from that its spherical Volume, and from the Volume and Mass, the Mass density of same.

TABLE 5 gives all of the parameters, from the smallest to the largest possible Universe including ours, 8. Specific discussion will follow as to this table. Excluding any values with <, all answers are stipulated to be extended. 15 billion light years = 1.419×10^{28} cm. r in cm, Mass in gm, density is gm/cm³ and Volume is cm³.

The values can be found and/or double checked from their ratio relationships. It is possible to extend TABLE 5 up or down, between limits, by finding the

ratios between any two, and using same, to find or verify, the other values. The ratios for r and density are linear. Using either then, Mass is $(d_1 : d_2)^2$ and for Volume $(r_1 : r_2)^3$. As an example: To find M at limit, M_9 , determine ratio of 6. to 9. for density which is:

$$R = 5 < \times 10^{-7} : 7.407 \times 10^{-48} = 6.75 < \times 10^{40} \text{ which is also = radius.}$$

$$M_9 = M_6 \times R^2 = 2 < \times 10^{-6} \times 45.5625 \times 10^{80} = 9.1125 < \times 10^{75}$$

Note Mass in 9. whose numerical value is one-half of 1822.5 (911.25×10^{73}).

How close does the effective Gravitational radius compare with the neutrino and the proton?

DEFINING THE ENERGY MARKET

Wingate A. Lambertson, Ph.D.

March 21, 1999

INTRODUCTION

When Hal Fox published a comparison of energy productivity with four other categories (*New Energy News*, Vol. 6, No. 7, January, 1999), I asked Fox what the energy industry consisted of, when described in terms of productivity. He responded that he had some of the same questions. This led me to do a little digging and the following paper .

My primary source was **Statistical Abstract of the United States - 1996**. Types of fuel categorize the industry. Consumption in the United States in 1994 was:

Fuel type	Quadrillion Btu/year
Petroleum products	34.7
Natural gas	21.2

TABLE 5

	RADIUS	MASS	DENSITY	VOLUME
1.	1.924500 X 10 ⁻²¹	7.407407 x 10 ⁻⁴⁸	2.48097 x 10 ¹⁴	2.985678 x 10 ⁻⁶²
2.	1.333333 x 10 ⁻¹³	3.555555 x 10 ⁻³²	3.75 < x 10 ⁶	9.481481 x 10 ⁻³⁹
3.	2.138334 x 10 ⁻¹¹	9.144947 x 10 ⁻²⁸	2.338269 x 10 ⁴	3.910990 x 10 ⁻³²
4.	9.928090 x 10 ⁻¹⁰	1.666666 x 10 ⁻²⁴	5.212169 x 10 ²	3.197645 x 10 ⁻²⁷
5.	1.291348 x 10 ⁻⁹	3.335162 x 10 ⁻²⁴	3.097537 x 10 ²	1.076714 x 10 ⁻²⁶
6.	1	2 < 10 ⁶	5 < x 10 ⁷	4 <
7.	7.071067 x 10 ²	1	6.653142 x 10 ⁻¹⁰	1.414213 x 10 ⁹
Current :				
8.	15BLY*	4.027122 x 10 ⁵⁰	3.523608 x 10 ⁻³⁵	1.142897 x 10 ⁸⁵
9.	6.75 < x 10 ⁴⁰	9.1125 < x 10 ⁷⁵	7.407407 x 10 ⁻⁴⁸	1.123018 x 10 ¹²³

* Billion Light Years

Coal	19.5
Nuclear electric power	6.3
Renewable energy	
Hydroelectric power	3.1
Geothermal	0.3
Biofuels	2.8

Electric power generation converts basic fuels into electric power and is categorized separately. For the purpose of this paper, it is included in the above categories. Electric power is used in zero-point energy collection so the fuel or energy source and the changing into useful electric power cannot be separated.

GLOBAL ENERGY OUTLOOK published by Moody's World Energy Group, in their February, 1999 issue, forecast that by 2020 the world will consume three times as much energy as in 1970. In that year, the world's energy consumption was 1,359.3 quadrillion Btu. Assuming that the Global projection is the best available, the world's energy requirement will be 4,078 quadrillion Btu. That is the target for zero-point energy.

The common unit of measurement in the above categories is the Btu, the British thermal unit. One Btu is needed to raise one pound of water one degree Fahrenheit at 39.2 degrees F. One quadrillion is 10^{15} or 1,000 trillion. In oil terms, there are 5.8 million Btu in a barrel. In electricity terms, there are 10,272 Btu per kilowatt-hour. In coal terms, there are 21.278 million Btu per long ton. Nuclear power requires 20,914 Btu per kilowatt-hour.

Energy companies are based primarily on petroleum. During the 1970s oil crisis, some oil companies diversified into coal and chemicals and called themselves energy companies. The **Global** article tells us that Royal Dutch Shell and British Petroleum see themselves as energy companies and are pouring millions of dollars into solar manufacturing facilities. On the surface, movement into renewable energy is commendable. However, it appears to be a delaying action to protect their investment in fossil fuels. In 1994 the photovoltaic component of our energy consumption was too small to be even listed.

Zero-Point Energy Role

The only new energy sources that have the potential to meet the world's energy needs are cold fusion and zero-point energy. Nuclear energy is both expensive and politically unacceptable. Zero-point energy is about 10 years behind cold fusion in its development but is inherently less expensive and capable of being scaled up rapidly. It not only is capable of electric

power production but will be used in all the fossil fuel markets, except chemicals. It will be possible to completely saturate the energy market by 2020 and at least one organization has plans to do just that.

Funding Potential

Global lists nine economic sectors in terms of profit. Of those nine, energy was third from the bottom at \$3.72 billion in the fourth quarter of 1998. If you take out electric companies, the profit was only \$1,633 billion. In 1994 on revenues of \$446.6 billion, the operating income was \$30.1 billion at 3.7 percent. The technology sector was \$17.08 billion. As points of comparison, in 1995 Intel had sales of \$16.2 billion with a net income of \$3,556 billion. Microsoft had sales of \$5,937 billion with a net income of \$1,453 billion or 24.5 percent.

The collection of zero-point energy and conversion into electric power or other fossil fuel applications is a high technology activity and will justify a high technology rate of return on investment or a 50 percent gross profit, for example. The relatively high rate of return will attract investors from all over the world.

Hal Fox estimated the cost of new energy as one third of present day energy costs. (Private communication) At that rate, it will replace all fossil, nuclear and renewable energy sources. Even the Columbia River may go back to salmon production. Sales expenses will be very low.

A NEW THEORY OF RELATIVITY

Order the book:

SUPERLUMINARY RELATIVITY RELATED TO NUCLEAR FORCES AND STRUCTURES

Petar K. Anastasovski
166 Pages, \$28.50 plus postage

Order: Trenergy, Inc.
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Phone: 801-466-8680 Fax: 801-466-8668

ENERGY CREATION RESEARCH

Dr. Lev Sapogin, Igor Kulikov (Moscow), "Proposal for Theoretical and Experimental Research on Creation of New Energy Sources and Reactive Engines (Green-Jet Project)," 40 refs, 10 figs.

INTRODUCTION

Our civilization would be impossible without sources of energy. Unfortunately our seemingly prosperous life may be nearing its end. According to the evaluation of experts the present-day resources of hydrocarbon fossil fuel will start to be exhausted by 2025 and then the world will face a beginning of true energy crisis. Conceivably, conventional nuclear reactors might solve this problem, since the existing thorium and uranium deposits would last for thousands of years. Yet, from an ecological viewpoint the current varieties of classic nuclear-fission reactors are "delayed-action mines" threatening mankind by periodic Chernobyl-type disasters.

For the entire report visit:

<http://www.erols.com/sturartjr/Ganzproj.html>

MORE ANOMALIES

Roger Taylor, "Some Attempts to Reproduce Anomalous Phenomena," newsletter of the US Psychotronic Association, 12/27/94, 7 refs, 1 fig.

ABSTRACT

For the past 10 years I have been intensely interested in scientific aspects of subtle energy -- and indeed in all kinds of "fringe science." My aim has been to help bring at least some aspects of subtle energy out into the light of objectivity. Nothing would please me more than to be able to demonstrate some phenomenon which would defy conventional explanation. Thus I have, over the years, tried to repeat several published claims to demonstrate such phenomena. In some I have failed to find the phenomenon -- often due to insufficient technical details being provided. In others, where I have reproduced the phenomena (to my satisfaction at least) it has seemed to me that they were accountable by simple conventional explanations. It is difficult enough in this area to publish in any detail even positive results, and more difficult if they are negative. Thus I limit myself to a qualitative account of my experiences in each of four types of experiment.

Other Publications

WIRED FOR COLD FUSION

Courtesy of Pat Bailey

What If Cold Fusion Is Real? - *Wired* magazine Article, Nov. 1998 by Charles Platt, *Wired*

The full text of the really great review on Cold Fusion from the *Wired* magazine article, Nov. 1998, is now at: <http://www.wired.com/wired/archive/6.11/coldfusion.html> and is 11 pages long, for easy printing (hint!).

Dr. Eugene Mallove said last October: "It is one of the very best general media accounts of cold fusion to date. Charles Platt is to be congratulated for his excellent treatment."

THE COSMIC LIGHT

Courtesy of Dr. Timothy Binder

On May 2, 1999, the University of Science & Philosophy celebrates the 50th anniversary of The Walter Russell Foundation. As a part of that anniversary, a new publication, *The Cosmic Light*, a quarterly magazine of the University of Science & Philosophy begins with volume one, number one, January 1999 issue. The cost of this quarterly is \$20 per year. Write to Swannanoa, P.O. Box 520, Waynesboro, VA 22980.

Dr. Timothy Binder has long been a supporter of new-energy science. Currently, he and Toby Grotz are working on new-energy research. Dr. Binder is Director of Research for the University of Science & Philosophy.

FUTURE TECHNOLOGY INTELLIGENCE REPORT, MARCH 1999

vol 10, no 3 excerpts

Courtesy of Dr. Antony C. Sutton

This issue of Future Technology Intelligence Report has the following articles:

◆ "Quiet Please, Bureaucrats Asleep -- Since March 1989". The article describes the contents of the DOE cold fusion information on its website and includes the following response from a DOE representative: "...still reflects our considered opinion on cold fusion. We have no plans to update the Web site in the near future."

◆ "Department of Agriculture Awakened by Reality". The article reports that the Dept of Ag included irradiation, genetic engineering, sewage sludge, and chemical sprays as allowable for organic farming. 280,000 farms, marketers, and consumers objected. The DOA had to retract. Perhaps the new-energy community can do the same for DOE.

◆ "State Department holds First International Conference on Free Energy".

FTIR - APRIL 1999, vol 10, no 4

◆ "US State Department and Free Energy" (exerpts)

"..... We have had **personal** experience of Government abuses, sitting across the table from Government people pressuring us to withdraw a private book from circulation. When we refused we were arbitrarily ejected from a Stanford Fellowship. This is another side of the political sickness described by Paulo Correa and not uncommon.....

We do not speak for the Free Energy Community. However we sense a widespread vision of a free, voluntary world with the least possible Government interference and promoting honesty in science.

The Impact of Free Energy

..... Reduce dependence on Middle East oil and natural gas and you reduce the significance of the Middle East as a political "national interest". This has major military, foreign policy and fiscal implications. This reduces the political influence of oil firms. We can then reduce military expenditures. Less oil, less politics, less instability.

Russia gets 60% of foreign exchange from oil and gas, and is already strapped. Free energy is positive for the emerging freedom forces in Russia and encourages private initiative because free energy curbs the expansionist imperialist forces fueled by oil. LENR technology can speed programs for elimination of nuclear weapons..... another instability headache,

.... This is private business by private citizens, paying their own expenses with no government subsidy, law abiding, peaceful and constructive. There is no need for regulation, there is nothing to regulate.

Ah! The **knowledge**, that's the key.....

Who has the knowledge? A retired Tufts chemical engineering professor, a fired Press Officer from MIT, a bought out researcher from Los Alamos National Laboratory, a Naval Research Laboratory researcher

and scores of others in this category...talented hard workers not interested in politics and academic games..

.... Free Energy is not a monopoly, not polluting, cannot be used to destroy or control, doesn't use scarce resources or tear up the environment.. It needs a free competitive structure for development."

FTIR offers two-year subscription to its monthly publication plus a copy of Dr. Sutton's book, Cold Fusion: Secret Energy Revolution for \$120. Respond to FTIR, PO Bx 2903, Sacramento, CA 95812.

FROM GLOBAL ENERGY OUTLOOK

Courtesy of Gordon B. Moody

The following is a quote from Gordon Moody's editorial in the February 1999 issue of *Global Energy Outlook*:

"While the administration likes to take credit for the booming U.S. economy, increased productivity resulting from technology and low energy costs are the factors keeping inflation and interest rates at their lowest level in more than a decade. Unfortunately, neither the politicians nor the American Public recognize that the oil and gas industry cannot continue to provide low cost energy if they are losing billions of dollars." [It must take some real 'spin-doctoring' for certain groups to claim that the big oil industry is or has-been destroying the emergence of new-energy products. Ed.]

In this same issue of *Global Energy Outlook* are the following extracted tidbits:

- ✓ The U.S. daily oil production is down (1998 compared with 1997) by 165,030 bbls per day.
- ✓ U.S. tax rates are higher than anytime in this century except 1944 (during WW II).
- ✓ The major oil companies had profit declines during 1998 4th Qtr. by 91 percent. The energy sector experienced losses of billions of dollars.
- ✓ Federal taxes are 20.7 of entire economy now, compared to 19% during Korean War and 20.9% when the U.S. was fighting both Germany and Japan.
- ✓ Between 1970 and 1980 the U.S. economy increased 122.4% while energy consumption has increased only 35.9%. Currently, the U.S. consumes 92.9 quadrillion BTUs (est. for 1999, an increase of 1.7% from 1998).
- ✓ Oil and natural gas provide 2.3rds of U.S. energy and coal provides almost 1/4th.
- ✓ U.S. major oil companies denied entry into Saudi Oil business. [That's good, the oil companies need to invest in new-energy projects. Ed.]

- ✓ The seepage of oil from ocean-under-seabed sources is 100 times as much oil as comes from offshore oil exploration.
- ✓ The biggest threat to oil prices stems from the political unrest in the Middle East.
- ✓ By 2020, the world will consume three times as much energy as it did in 1970.
- ✓ U.S. gross domestic product grew 5.6% in 4th Qtr. of 1998. The smallest category is Basic Materials at \$2.4 billion; Energy at \$3.7 billion, and the top Financial Services at \$22.36 billion.

EDITORIAL

Gordon B. Moody (Publisher / Editor) *Global Energy Outlook*, March 1999, vol 4, no 3.

The U.S. economy continues to surge upward. American consumers are spending nearly 100% of their after-tax incomes as if there were no tomorrow. With nothing left to spend, they are borrowing on the inflated values of their stocks. The U.S. trade deficit is at the highest level in history. All of the movement appears to be in one direction. Asia depends upon U.S. imports to consume 25% of its exports. With Latin America, the U.S. must import two-thirds of its export to keep them solvent. All of the forecasts call for the U.S. economy to continue its upward spiral, but that calls for American consumers to spend more when there's little left to spend. In 1992, Americans saved 5.7% of their income. Today, all savings are rolled-up into inflated stock prices. Robert J. Samuelson, noted economist, says the U.S. economy may be surfing in its own euphoria. Overpriced stocks cause consumers to overspend and businesses to overinvest. **Sooner or later, the process will choke on itself. The after shocks worldwide will be disastrous.**

SPACE ENERGY JOURNAL

Courtesy Don Kelly

This quarterly journal specializes in energy-related devices. The latest issue: volume X, issue 1, March 1999, has the following articles of interest to new-energy readers:

- ◆ "The Gravity-Magnetic Wheel/Motor, Type II." This article discusses theoretical and experimental work with using masses that are on the periphery on the down motion of the wheel and move toward the axle on the up motion side. The interesting addition is the use of magnets to help reposition the masses near the bottom of the wheel.
- ◆ "1998 Report on the Win Method," by Wingate Lambertson. This is a short history of the times and problems of the E-dam cermet device that recent data shows a yield of 145 percent.

◆ "Free Energy Device (USA)." reprinted from Dec. 1998 issue of *The Leading Edge International Research Journal* - #117. The article claims that a Tom Bearden, Zero Point Electrical Generator (ZPEG) has been built, kept secret, and "We have not paid an electrical bill since 1993."

◆ Book Review of Secrets of Cold War Technology: Project HAARP and Beyond, by Gerry Vassilkatos. The review by Pat Bailey says "Get This Book! NOW!!"

◆ "The Newman's Energy Machine." by J L Naudin and M. David. This report claims a mechanical efficiency of 134%. The output measurement uses a pony brake. In input measurements use a high-frequency oscilloscope.

For further information contact Space Energy Association, PO Box 1136, Clearwater, Florida, 33757-1136 or call 954-749-6553.

Book Review

CHAINS -- A BOOK REVIEW

By Hal Fox

James Bovard, FREEDOM IN CHAINS, The Rise of the State and the Demise of the Citizen, c1999, St. Martin's Press, 175 Fifth Avenue, New York, N.Y. 10010, 326 pages, indexed, 1256 references.

Why should an energy newsletter review a book about the constraints that the government imposes on its citizens? The answer is simple: So you will be aware of what type of restraints will be placed on new-energy devices unless voters object. This well-researched and impeccably-documented book, is a must read for any person who looks to new-energy systems to provide him or her with additional freedom. I'll guarantee that you will not be so complacent about your government for the rest of your life, and rightly so.

The book reviews the basic rights which the founders of this country insisted should be retained by the citizens. The book also chronicles how these citizen rights have gradually been eroded until now even the hated name of a ruthless czar is coupled with government institutions, such as a drug czar. This book gives us many examples of how we have allowed the government agencies (at all levels) to erode citizen rights and, in many cases, to enslave and imprison citizens who failed to abide by unfair

government bureaucratic mandates. Here are some examples:

"The average family with two earners paid nearly as much in taxes in 1998 as their total nominal earnings in 1980."

Welfare: "In the six most generous states, benefits exceed the entry-level salary for a computer programmer. The higher the benefits, the less work recipients perform."

Price Control: "Supreme Court Justice Owen Roberts ... it is plain that this Act creates personal government by a petty tyrant instead of government by law."

Superfund: "The government has spent almost \$1 billion for Superfund and forced private parties to spend up to another \$80 billion. Yet the program has cleaned up barely a third of the most dangerous landfills."

Citizen Trust: "...a 1995 poll found that 76 percent of Americans say that they 'rarely or never trust government to do what is right.'"

Rewarded by Fines: "...OSHA inspectors were being rewarded on the basis of how many fines they issued."

Stealing by IRS: "...IRS wrongfully collected up to \$7 billion in penalties...not owed by taxpayers. Thus, Americans probably lose more each year from unjustified IRS payment demands than is stolen by all the burglars and armed robbers combined."

Price of Getting: "What have politicians given to the citizenry that they did not originally take from them? ... In reality, ... politicians give back far less in value than they took."

Sovereignty: "The challenge of our times is to limit the power of government so that citizens can reclaim sovereignty over their own lives."

Many of the laws enacted by government are labeled with such nice words as Environmental Protection, Fair Trade, and Comprehensive Employment and Training Act (\$40 billion spent, \$0 results). Worse, the legislators think they are helping the people. However, by the time the bureaucrats write and publish the regulations, the citizens who are supposed to be helped find that they can be arrested, imprisoned, and fined, with no rights to sue those who impose these serious coercions upon them.

So what has that to do with new energy? When coal use decreases, when electric utilities cannot compete with new-energy devices, when oil refineries have to reduce production, when natural gas use is greatly reduced, what do you think those industries are going to ask from their Congresspersons? They will ask for fair trade, price controls, new-energy restrictions, and legislation prohibiting new-energy systems. And what will the Congresspersons do? Unless a strong

voice from the people is registered, they will find ways to help maintain fairness for groups that donate large re-election funds.

What Should You Do? You must make your vote count. You must make your voice heard. You must fill your Congressman's email file with strong, courteously-worded demands for the government to not restrict the use of new-energy technology. You had better start now or find that the new-energy devices now being commercialized will be bound with government regulations disguised as safety, fairness, consumer protection, etc.

Recently, the Department of Agriculture tried to expand the definition of organic. Tens of thousands of concerned citizens objected. The DOA withdrew! That is the answer to your freedom to use the new-energy devices that are now being commercialized! To be forewarned is to be forearmed! Read this book, be informed, maintain your energy rights. Then regain your many other rights that are currently denied by bureaucratic regulations.

In the final chapter of this remarkable book, the author suggests some things that citizens should do. Here are some further suggestions that should be accomplished:

1. Require every government agency that is based on the Constitutional concept of "promote the general welfare" to reduce its number of regulations by half and the amount of fines by half. Repeat this mandate every Congress or forgo any appropriations.
2. Remove the shield of sovereignty for all "general welfare" based agencies and allow the concerned citizen to sue the government worker and have immediate access to an independent Arbitrator.
3. Require that only one government agency shall be allowed to write regulations for any particular topic such as Energy.
4. Pass legislation that all total government taxation cannot exceed 25% of a person's income.
5. Insist that someone in every Congressperson's office must read a new law before it is presented for vote.

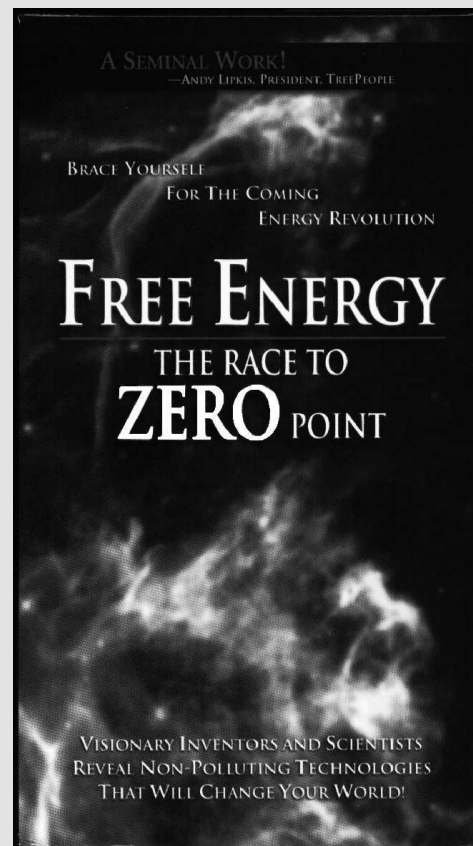
Note: The editor invites you to suggest ways in which government excesses in the name of "general welfare" can be curtailed. First, read this book and be an informed citizen.

Free Energy: The Race to Zero Point

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Written & Directed by: Christopher Toussaint
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END GOVERNMENT SECRECY

Courtesy of Remy Chevalier

Danna A. Demac, [Keeping America Un-Informed: Government Secrecy in the 1980s](#), ISBN 0-8298-0721-7

Chapter 7 is titled, "Indirect Connection, Scientific Inquiry and National Security." The following is from the introductory paragraph: "In this so-called information age, scientific inquiry and technological invention have become tools of political power. ... The new importance of the results of scientific research has intensified a fundamental controversy between those who would restrict the flow of scientific information in the interest of national security and those who would encourage that flow to ensure American excellence in science and education." It is extraordinarily difficult to follow the logic of restricting the flow of information to ensure excellence in education!

The Two Basic Issues:

1. The claim of the proponents of strict secrecy is that the nation must control technological information to ensure the country's technologic superiority. Strict limits on sharing of scientific information were vital to national security.
2. The claim of the academic and scientific scholars is that scientific superiority in the U.S. can only be maintained by freedom to communicate scientific information.

This publisher's view is that the government must be free to classify (for short periods of time) detailed structural information on military weapons. This view includes the right of government to classify weapon-related research that is funded by government military agencies. The government should have no right to classify any type of research and development discovered by individuals and/or funded by corporate or private funds.

The Regulations:

The Inventions and Secrecy Act of 1951 gave defense agencies authority to review patent applications to determine if they should be classified. This law has been used to classify a voice scrambler and a data-protection device. An attempt was made to classify the discovery of high-density charge clusters.

The Atomic Energy Act of 1954 relates to nuclear energy research. Such research is "born classified" under this law. In 1979, this act was used to prevent publication of an article, "The H-Bomb: How We Got It, Why We're Telling It." Later in 1981, the DOE attempted to use this law to prohibit any U.S. laboratory employees from corresponding with researchers from Communist countries.

The Export Administration Act of 1979 allows restrictions on the export of anything deemed to be harmful to national security.

Finally, regulations were promulgated by over fifteen government agencies to control, oversee, or restrict scientific activities.

The Result:

It would be obvious to anyone who is experienced in research and development, that these restrictions would diminish the technological advances in any country in which this type of restraint on professional communication was imposed. That has been the result in the U.S. The editor of this magazine has talked with scientists who have left the United States and gone to other countries to be able to continue their scientific research after their work had been classified. Consider the growth of the computer and the internet technologies. What country would be ahead of the U.S. if the in-the-garage work led to the first Apple Computer had been classified? The U.S. leads the world in new technology. Freedom of communication is the essence of technological development. No government agency nor any civil servant should have any right to curtail private invention and discovery. If it is weapon-related, the inventor is going to try to sell it to the government anyway!

NEW ENERGY NEWS BIBLIOGRAPHY

Just updated from INE, a complete bibliography is available containing over 1000 references, listing all the articles, papers and abstracts published in the *New Energy News* since we began back in 1993. Request PC WordPerfect 6.1 or ASCII format. Copies are US\$10, postage and handling included. INE, 3084 E 3300 South, Salt Lake City, UT 84109, or call 801-466-8680

The Solution:

The solution is simple; under the Freedom of Information any person whose research is not supported by government funds retains full rights to the dissemination of scientific data unless the researcher and the government agree on full payment for research achieved and/or planned. Also, the government shall have no right to change the classification of any government-funded or private-funded research that is not initially classified. Government employees and politicians act only upon public demand. Therefore, SUPPORT THE RALLY TO END SECRECY: OCTOBER 24TH, 1999 AT NOON AT THE CAPITOL BUILDING.

Editorial

IS CO-GENERATION DEAD?

By Hal Fox, editor

There is legislation that an entity who produces more power than required for that entity, can sell the power to the power company. The idea is to save the burning of more fossil fuels by having the power company buy the co-generated power and close down its own fossil-fuel-burning, power-generating station. The end result has been the building of a variety of small water-powered generating facilities; the installation of natural-gas turbine-engine generators; and a number of plans for home owners to become involved in co-gen operations.

Here is the danger: The utility is not required to pay more than its lowest cost of generating electrical power. As soon as the current two new-energy technologies (now being commercialized) are available, power-production costs are expected to plummet. Therefore, anyone making an investment in power-generating equipment to sell power to the local utility must take that information into his/her financial planning.

Co-generation of electrical power, to sell to the local utility, is not dead but it is mighty sick. However, for those who desire to "get off the grid" with one of the new-energy power-generating technologies, there may be some short-term benefits that can be obtained by installing a larger-than-needed, power-producing unit and selling power to the local power company. Perhaps there will be a one- to two-year potential to sell power. But don't mortgage your home to do it!

Letters to the Editor & Others

LETTER FROM JOHN COLLINS

New theory on the Bessler/Orrfyreus wheel

Just letting you know that I have put my money where my mouth is. As requested some time back, by several vociferous people, I've put an abbreviated version of the theory I've developed about Johann Bessler's wheel up on my web site at <http://www.free-energy.co.uk>. Why it did not violate any physical laws. I have also discovered clues to the mechanism he used and I have filed a patent on it. As soon as I know how to replicate the wheel, I'll post that information too. I would welcome any feedback.

John Collins
<jcollins@free-energy.co.uk>
Author of 'Perpetual Motion; An Ancient Mystery Solved?'
for more information and details on ordering, visit my web site at <http://www.free-energy.co.uk>

LETTER FROM DAVID DE HILSTER

I want to thank you for your review of the SAA Book. It is greatly appreciated. As you know, trying to get a new idea out is quite a battle but we have sold over 200 books world-wide in less than a year and physicists, professors, scientists, and students alike are starting to seriously look at Carezani's work.

Just a couple of additions and corrections...

My email is best given for this article as <saa@autodynamics.org>. Also, we have an extensive website on the subject at: <http://www.autodynamics.org>. It has been up for over 3 years now and attracts a lot of attention.

Again, thanks much for the review. It is greatly appreciated that you took the time to read the book and write your opinion.

Sincerely, David de Hilster
SAA President

LETTER FROM TREVOR OSBORNE

Subject: Charging for the Internet !!

Just received the following from Ted Hall in Mt Rainier, WA regarding the question of whether there is to be a long-distance phone fee charged for internet use... Trevor

Date: Thu, 11 Mar 1999 23:19:45 EST
Subject: Fwd: Internet Access Fee

Thank you for e-mailing me about your concerns with a long distance charge on Internet services. There is no plan, bill, or process in place to charge an access fee or long distance charge for the Internet. Nor is there any plan to tax electronic commerce on the Internet, because last year Congress passed a bill, that I cosponsored, titled The Internet Tax Freedom Act. This bill puts a moratorium on all Internet taxes for two years, until a sound policy regarding electronic commerce can be developed. There is an e-mail that has been circulating since this past November, and it has always cited that a vote "will take place in two weeks time." This e-mail is not factual. This being said, where does the talk of a long distance fee on the Internet come from?

The Internet is among the most exciting technological advancements in the last decade. Access to the Internet has opened up whole new possibilities for life, business, and social service. The very idea of paying long-distance-type charges for hours web surfing naturally produces great anxiety. Therefore these rumors tend to spring up anytime the FCC does anything related to long distance service.

On February 25, 1999, the FCC adopted a Declaratory Ruling to clear up some issues regarding a conflict between local telephone companies. Essentially the FCC is beginning to lay the ground work that will aid in the development of the Internet.

The FCC guaranteed the following points in its February 25, 1999 meeting:

- ◆ The FCC will not impose long distance charges for dialing up the Internet. This exemption from long distance access charges is solid as a rock and has been upheld in court.
- ◆ The consumer may continue to access the Internet by dialing a seven digit telephone number, and will not incur a long distance charges when they do so.

- ◆ The FCC has reconfirmed the Internet's exemption from local telephone charges. Consumers will see no new charges on their Internet or phone bills
- ◆ The big picture in the long run is very positive -- our continued "hands off" policy towards the Internet will allow it to continue growing rapidly, unfettered by regulations.
- ◆ The government must not be too quick to regulate, or worse, tax an industry that is developing its technology so fast. I hope this information is helpful and answers your question.

Thanks again for contacting me about your concerns with a long distance charge on the Internet. If there is anything else I can do for you, please do not hesitate to e-mail, call or write me.

Adam Smith
Member of Congress

LETTER TO DON KELLY

NEN Editor apologizes to Don Kelly and others:

Don Kelly writes: "Hal, I really do take issue with your statement in *NEN* [put in issue and page] 'In the meantime Don Kelly (and the rest of you) don't give up on mankind's ingenuity and ability to solve our energy problems.' This one really set me off, since I've been going through the halls of hell in N/E for the past ten years, and only now see the tiny (low-tech) light at the end of the tunnel. This statement is a lot like talking down your nose to me and the others now involved in the low-tech 'G' Wheel N/E direction."

Don Kelly, I sincerely apologize. There is no one in the new-energy field that has been more diligent than you in seeking out methods of creating better energy sources. I look up to you. I admire you for your work. You will never get the credit you deserve for your time, money, and persistence. The same plaudits go to your friends. I know you haven't given up. I suspect that like Sparky Sweet, you'll die trying to improve the world. I certainly do not look down my nose at any one. It may be true that I have been discouraged by the lack of any "low-tech" solution to the N/E problem (so far), but my hopes are with you. In the meantime, our publishing activities and our search for and reporting on both high-tech and low-tech new-energy discoveries has brought me in contact with a couple of amazing new developments, both of which have taken ten years to develop (and neither is cold fusion). As we reported in *NEN*, March 1999, these new advances: 1. Dr. Randall Mills collapsing the hydrogen atom below its

traditional ground state and, 2. the creation and proper control of high-density charge clusters, appear to be the two most promising new-energy technologies being, or close to being, commercialized.

Don Kelly has another beef: "Firstly, your judgement of these "G" Wheels is real bumding; i.e. 'a device may not work in a uniform gravity field, but would work if part of the device were exposed to a weakened gravity field.'"

My fault, Don, for not being more precise. The concept was that if we could put one part of a wheel (almost any wheel) so that half was exposed to standard gravity and the other half exposed to reduced gravity, then one part of the wheel (of the same mass) would appear to be "lighter" and the other half would appear to be "heavier." The wheel would obviously rotate. What is being done with Wheels is not to affect gravity but to affect the torque given to a wheel by having various masses change their effective radius arm ($m \times r$) so that this torque caused by a uniform gravity is different on one part of the wheel than on the opposite side of the wheel. [By the way, I think the use of magnets to affect one side of the G Wheel is ingenious.]

Don Kelly also makes another suggestion: "Shoulders actively seems to center on writing about the technology in his 80-plus-page patent, etc., but why not prototype work on his proof?"

Mea culpa, Don. I've failed to report on Ken Shoulders' extensive laboratory work that has led to his several patents (issued and pending). Ken Shoulders is, in my judgement, one of the world's geniuses in the laboratory. He has a marvelously well-equipped laboratory adjacent to his home. One that makes some of the rest of us drool with envy. I haven't properly related that story. However, Ken has no inner need for the media to praise him, nor for others to accept his work. He knows what he is doing. He knows what he wants to achieve, before he makes a public announcement. Ken Shoulders cares not what less-informed and less-talented people think about his work. As for those who would like to instruct Shoulders about his errors, I classify these self-appointed experts as equivalent to the ones who proclaimed that the Wright Brothers couldn't fly, Edison's light bulb wasn't practical, and Goddard should know that rockets couldn't work in space because there was nothing to push against.

Don Kelly, thank you for calling attention to my lack of good reporting. You are kind enough to take time to write and explain so that others can benefit, hopefully, by my improved explanations.
Best regards, Hal Fox, Editor, *NEN*.

This Editor's Letter to Another Editor:

NASA TO SEARCH FOR ENERGY

Courtesy Toby Grotz

Frank Walls, "Alter NASA mission to search for energy," *The Arizona Republic*, 7 Dec. 1998, p B4.

Dear Editor, *The Arizona Republic*

In a recent contribution to "My Turn," Frank Walls suggests that NASA be turned into National Alternative Energy Research Administration. One of the missions of the current Department of Energy is to find, foster, and promote sources for new energy. DOE has funded hot fusion (about \$20 billion) and funded solar, wind, tide, geothermal, and biomass alternative energy products by spending billions more dollars. The results have been essentially zero, as far as providing low-cost, alternative energy. Why would any living and literate person expect that a renamed NASA could do any better?

Almost no scientific breakthroughs are produced from government laboratories. It is the individual or small private groups that foster new technologies. Readers of *The Arizona Republic* may be interested to know that two such alternative-energy groups are now commercializing new-energy discoveries.

Example 1: The 1989 invention by Dr. Randell Mills is now being commercialized (defined as a company having developed its technology to the stage of providing engineering prototypes to licensees). Dr. Mills' invention obtains energy from catalyzing the hydrogen atom below its normal ground state. This process is accomplished in a hot gaseous environment and the photons of energy, in the collapsing of the hydrogen atoms, provide copious amounts of thermal energy. This is a revolutionary new form of chemical energy. After this process was discovered on earth, it was found to be a part of the sun's energy. For more information, see the following web site: www.blacklightpower.com

Example 2: Kenneth Shoulders was issued a patent on May 21, 1991 as U.S. Patent 5,018,180. This technology produces both thermal energy and direct electrical energy. The ratio of the output to input energy ranges from 10 to 100. The source of the energy, according to the patent: "...In any event, energy is provided to the traveling wave output conductor, and the ultimate source of this energy appears to be the zero-point radiation of the vacuum continuum." This is the first patent (known to me) to describe the source of energy as coming from the energy that fills all space. In other words, this is the first technology to tap the vast energy available

anywhere on earth or in space. Now that is something that NASA needs.

Further information of these exciting new-energy technologies can be found in the pages of *New Energy News*, and in the *Journal of New Energy*.

Hal Fox, Editor, *NEN & JNE*

LETTER FROM STG. NIEUWE ENERGIE

Regarding Gravity, the Stevens Device, and Disk-Shaped Magnets

By means of response to the "Stevens" device the following:

I wrote a theory of gravity that is based entirely on a hydraulic view of physics. This means that all phenomena are considered a result of space (aether) currents. Fields are considered mathematical abstractions, in reality space currents exists that flow at right angles to these field-lines. For example: gravity has vertical field lines, but the real space flow is horizontal. So gravity is explained as caused by anti-clockwise, spiral-shaped space currents that come from all directions. Due to the presence of our planet, an excess exists in the horizontal direction (this out-of-balance situation obviously is the cause of gravity).

Before making some remarks about the "Stevens" device, it must be understood that conductivity is primarily caused by the degree the conductor allows the passage of space currents. This is true whether or not electrons are involved and dragged along by these space currents.

When keeping the above in mind, a lot makes sense in the e-mail but a lot is non-sense as well. If the 7.23 Hz is true, all smaller objects around us would shake continuously and we would all soon become mad. The true frequency is 157.3 kHz, the well known earth frequency. At this frequency any coil will resonate on the inductance of the wire and the capacitance caused by the space in between the wires. Once the geometry of the outer coil is fixed, cutting the wiring away in between tests is a good way of tuning this coil, because the inductance changes at a different rate than the capacitance. It is further claimed that when the device is overturned it performs less well. From this may be concluded that the device is wound from inside out in a clockwise direction. This is the best way to receive the pulsating anti-clockwise gravity spiral currents. By the way, nothing is said about this spiral aspect and

I consider this just as important as the flatness of the coil. Because of the excess of horizontal spiral gravity flow, the device will perform best when in the horizontal position. When placed at an angle, it will receive spiral flows that have suffered absorption by the near planet. I would not be surprised when the antenna shows much operation when in the vertical position. Because the gravity spiral flows come from the outside, the outer coil shields the inner coil from the gravity energy; this means the only task left is a transformer function. Because a rectifier bridge gives a loss of 1.2 Volts, it is very efficient to step up the voltage to decrease this loss. This also brings down the impractical high frequency to a zero value. This inner coil must be tuned to the same base frequency. A lot of readers wonder about the function of the magnet(s). Magnets show a powerful space current around the north-south axis, when a conductor is placed around this axis this will promote space conduction. This would promote the start-up of the device. Of course, a 157.3 kHz trigger current would do the same job. You have all heard of Coler's 180 kHz fundamental frequency for magnets. This was for the 10 mm. diameter steel magnets of his time. It's possible however to find a magnet that is tuned to the antenna. The frequency of a disc shaped magnet is proportional to its strength and inversely proportional to it's diameter.

Stg. Nieuwe Energie
Halleyweg 189
3318 CG Dordrecht
Holland

LETTER FROM FRANK ZNIDARSIC

I originally published the idea of a quantum of capacitance in my book Elementary Antigravity in 1989, ISBN: 0-533-08334-6.

This idea is important in that it links the size of the macro-universe to the interactions of micro-elementary particles. The link is stray capacitive couplings.

The value I published in 1989 is 3.42×10^{-24} farads.

Let's take a look at the capacitance of an isolated one inch superconducting sphere.

Capacitance = $4 \pi \epsilon_0 = 1 \times 10^{-10}$ farads

The ratio of the quantum of capacity to capacity of sphere is $3.42 \times 10^{-24} / 1 \times 10^{-10} = 3.4 \times 10^{-14}$

We have just discovered that the velocity of light in a superconductive solid is 35 MPH or about 75 meters per second

The ratio of this number to the speed of light squared is (must square number because light speed varies of the sq. root of the electric constant):
 $(75 / c)^2 = 6.25 \times 10^{-14}$

Note the agreement between the above two ratios.

Finally we believe that the downshifted Compton wavelength of the electron in a one inch superconducting disk is:

FREQ MHz = $38 / (\text{diameter}) = 38$ mega hertz

This value is constant with Noever's work at NASA Marshall

This yields a wavelength of $c/\text{FREQ} = 7.9$ meters

Comparing 7.9 meters to the Compton wavelength of the electron yields: (note this frequency varies directly with the change in capacitance)

$$2.42 \times 10^{-12} / 79 = 3.1 \times 10^{-14}$$

Once again this third ratio is consistent with the first two.

The numbers may be off a little due to the fact that the exact size, modes of vibration, and stray capacitance values are not exactly known.

CONCLUSION

A superconductor is a view into another universe where: Light travels at 31 MPH
Compton frequencies are in Mega Hertz band.
Low Level Nuclear Reactions take place.
Heat travels at the speed of sound.
Current travels without friction.

I wonder what life would look like in such a universe.

The conclusions support my original idea of a quantum of capacitance.

Comments please.
Frank Znidarsic
FZNIDARSIC@aol.com

Meetings

THE NATIONAL TOWN MEETING FOR A SUSTAINABLE AMERICA

Detroit, Michigan and points across America
May 2-5, 1999

<http://www.sustainableamerica.org>

Sponsored by the President's Council on Sustainable Development (PCSD) and the Global Environment & Technology Foundation (GETF), the National Town Meeting (NTM) will showcase best practices that promote sustainability around the country. The program will emphasize building individual and institutional capacity so that best practices can be replicated elsewhere. The NTM will focus on sustainable solutions that are available today and ways that you can take advantage of them.

The NTM may be the largest U.S. event of its kind, with activities in Detroit and many communities across the country. They expect to reach millions of Americans with extensive national and local media coverage. The NTM program features a variety of learning and networking opportunities that highlight the vital issues that must be addressed to create a sustainable America. The event will launch a "sustainability best practices" movement, provide training tools to replicate these practices and track and measure the impacts of new approaches.

Included will be roundtable discussions, interactive learning sessions, an award ceremony and cultural activities planning. Over 3,000 people are expected in Detroit, with thousands more participating in Concurrent Events through satellite links and the Internet. The audience in Detroit will include leaders in business, communities, government, academia and many others who are seeking practical information about how sustainable practices can benefit their communities or businesses. A marketplace for exhibitors from business, academia, government and non-government organizations will also be featured.

**34th IECEC
Intersociety Energy Conversion
Engineering Conference**
August 1-5, 1999

Hotel Vancouver
Vancouver, British Columbia, Canada

"Engineering an International Energy Strategy"

This conference provides a forum to present and discuss engineering aspects of energy conversion, advanced energy conversion systems and devices, energy utilization and efficiency, environmental issues, and policy impacts on the research, development and implementation of energy systems. Papers dealing with all engineering aspects of the general topical areas below are welcome.

General Chair: Dr. Jerry Beam
Air Force Research Laboratory
Ph: 937/255-6226
Fax: 937/476-4781
Email: beamje@wl.wpafb.af.mil

Program Chair: Michael G. Schneider
Sundstrand Corporation
Ph: 815/394-4952
Fax: 815/394-3897
Email: mgschneider@snds.com

INSTITUTE OF NUCLEAR MATERIALS MANAGEMENT

40th Annual Meeting, July 25-29, 1999
The Pointe Hilton at Squaw Peak
Phoenix, Arizona

The 40th Annual Meeting will provide attendees with professional forum for the exchange of the latest technical information in nuclear materials management. The meeting will address all aspects of nuclear materials management.

Can be reached at INMM Headquarters at (847) 480-9573; Fax (847) 480-9282

7th RUSSIAN CONFERENCE ON COLD NUCLEAR TRANSMUTATION (RCCNT-7)

May 23-30, 1999

Olimpiyskiy Hotel, Dagomys
(near the famous Black Sea resort town of Sochi)

Programming includes:

1. Experimental researches of Cold Fusion and Nuclear Transmutation;
2. Cold Fusion and Nuclear Transmutation theoretical models;
3. Cold Fusion applied technologies and devices.

Registration fee: \$900 covers conf. Proceedings and program, transportation to and from Sochi airport, hotel, all meals, organizing fee.

Contact Yury N. Bazhutov, P.O. Box 169, "Erzion" Center, 105077 Moscow, Russia.

Phone (095) 464-78-81, (095) 946-15-51

Fax (095) 131-89-65

<prfnart@hotmail.com>

4TH ASTI WORKSHOP ON ANOMALIES IN HYDROGEN / DEUTERIUM LOADED METALS

22-24 October 1999, Hotel Villa Riccardi, Via al Monte 7, Rocca d'Arazzo(AT)

E-mail: mr.collis@physics.org

Web site: netcity.it/coldfusion

The entire hotel is already pre-booked for the nights of 21,22, 23 so we will make any reservation on your behalf. Accommodation will cost attendees just 45,000 lire per night (about \$25).

This year there will be a workshop fee of 250,000 Italian lire as a contribution towards meals which will be provided by the organization. All participants will received a copy of the Proceedings of the 3rd workshop published by the Italian Physics Society (Societa' Italiana di Fisica). Notwithstanding the introduction of the workshop fee, the cost of attending the workshop may even be lower than in previous years because of the lower board and accommodation costs.

If you would like to present a paper, book a room, or simply attend the workshop, please contact me as soon as possible because space is limited. Check out the website for the latest details.

Yours sincerely
Bill Collis (Local Organizer)

EXOTIC RESEARCH CONFERENCE POSTPONED

New Location & Dates: Phoenix/Mesa, Arizona, July 22-July 25, 1999

<http://www.exoticresearch.com>

Conference Location: Holiday Inn, 1600 South Country Club Drive, Mesa, AZ 85210

Hotel Reservations: (602) 964-7000, rooms \$59.

The Exotic Research Conference scheduled in Seattle for March 25-March 28, 1999 has been

changed to Phoenix/Mesa, Arizona. July 22-July 25, 1999. Those who are previously preregistered will be contacted individually to make arrangements for refunds or transference of registration to the Phoenix Conference. If you would like to contact me, I can be reached at (520) 424-3581.

As a consolation to those living in the Seattle area, Paul Pantone has agreed as a personal favor to go to Seattle and put on a FREE GEET technology workshop at the Doubletree Inn at Southcenter on Sunday March 28, 1999. Paul will be in the area from Friday March 26 - Sunday March 28. For exact dates and times call Paul Pantone at (801) 281-2462.

Conference Rates

\$249.95 - Members/Nonmembers

\$199.95 - Spouse

\$169.95 - Student (under 21)

Price does not include workshops or banquet.

Workshop Rates - \$39.95

Pre-Registration Discount Rates

25% - members registered before Apr 30

20% - members registered before May 31

15% - members registered before Jun 30

10% - members registered before Jul 22

Annual Membership Rates

\$30-United States

\$35-Canada/Mexico

\$55-Elsewhere

Discount does not apply to memberships.

Engine that runs on mountain dew!! ♦ Impossible welds with BROWN'S GAS! ♦ STIRLING ENGINES at work! ♦ Free energy from air! ♦ Suppressed Electromedicine! ♦ Movement restored in quadraplegics!

REGISTER ONLINE or call (24 hours/day):

(800) 417-6399

(520) 424-3581 (Steve Elswick)

If there is any one thing that attendees can do to make things easier on the staff, it is to PREREGISTER!!!! Preregistration is important. It allows the planners to determine numbers for room arrangements, catering arrangements, etc. Preregistration also insures that you will have a place to sit in the conference. Unfortunately many people believe they can wait until they get to the door to get in and then they get all upset at the fact that space is limited. It is the conference organizers nightmare.

Please help pass the word. Thank you for your support,

Steve Elswick
 Publisher, Exotic Research Report
<http://www.exoticresearch.com>

ADVANCED POLYMER SOURCES SEMINAR

International Seminar on the Technology of Inherently Conductive Polymers
 September 26-29, 1999
 Sheridan Conference Center, Toronto, Canada

A tutorial on the various aspects of the technology will be given on the first day of this seminar (Sunday the 26th). This includes properties, processing and applications. Monday through Wednesday will be dedicated to one-hour lectures given by scientists from industry and academia involved in the development and marketing of this technology. The workshop will end in a round table discussion.

The seminar is designed for engineers and scientists involved in the R&D as well as design of a variety of electrical and electronic applications and devices incorporating semiconducting and high conductivity polymers.

Contact: Dr. Matt Aldissi
 Telephone: 813-854-4332 Fax: 813-854-5596
 email: <fractals@infobridge.com>
 web page:
 <www.fastwww.com/conductive_polymers/>

Commercial Column

The following companies (listed alphabetically) are commercializing cold fusion or other enhanced energy devices: [Listings with your additional copy, or boxed, for small annual service fee.]

COMPANY: PRODUCT

American Pure Fusion Engineering and Supply:
 Warren Cooley, 1-800-789-7109 or 503-585-6746.
 Email to: Coolwar@aol.com

Clustron Sciences Corp.: Contact: Ron Brightsen,
 703-845-8531.

ENECO: is in the business of commercializing the exciting new field of low energy induced nuclear reactions in solids via patent licensing, joint-ventures, and co-operative research. ENECO, University of Utah Research Park, 391-B Chipeta Way, Salt Lake City, Utah 84108 USA. Contact Fred Jaeger, Voice 801-583-2000, Fax 801-583-6245. Email: jaeger@ENECO-USA.com

E-Quest Sciences: Contact Russ George,
 FAX 415-851-8489.

Fusion Information Center (FIC): Research and development of new energy systems. The world's most complete resource depository for cold fusion research information, as well as other new energy research including zero-point energy; space energy research; electronic, electromagnetic, and mechanical over unity devices and transmutation. We are the publishers for *New Energy News*, and *the Journal of New Energy*. Voice 801-466-8680, Fax 801-466-8668. Contact Hal Fox.

German Association for Vacuum Field Energy: DVS-Secretariat, Feyermuehler Str. 12, D-53894 Merchernich, Germany. Tel: 011-49/(0)2443-8246 Fax: 011-49/(0) 2443-901880 E-mail: dvs@gptec.com Internet: www.gptec.com/dvs.

Holotec AG: Clean Energy Technology, contact André Waser, Gen. Mgr., Bireggstrasse 14, CH-6003, Luzern,

Switzerland. Phone 011 41-41 360 4485, or Fax 011 41-41 360 4486.

Hydro Dynamics, Inc.: Rome, Georgia. Contact James Griggs, Voice 706-234-4111 Fax 706-234-0702.

JET Energy Technology, Inc.: Energy Production and Utilization and Control. Weston, MA. Contact Dr. Mitchell Swartz, Voice 617-237-3625. Fax 617-237-3625.
<http://world.std.com/~mica/jet.html>

Labofex, Experimental and Applied Plasma Physics: Ontario, Canada. Contact Dr. Paulo N. Correa. Tel 905-660-1040
Fax 905-738-8427

Magnetic Power Inc.: Sebastopol, CA. Contact Mark Goldes, voice 707-829-9391, Fax 707-829-1002.

Nova Resources Group, Inc.: Denver, CO. Call Chip Ransford, Phone 303-433-5582.

Trenergy, Inc., is developing new technology to stabilize high-level radioactive wastes.
Contact at 3084 East 3300 South, Salt Lake City, UT 84109, Voice 801-466-8680, Fax 801-466-8668.

UV Enhanced Ultrasound: Hong Kong.
FAX 852-2338-3057.

"YUSMAR"- Scientific-Commercial Company: President: Dr. Yuri S. Potapov, 277012 Kishinev, Moldova. Phone and Fax 011-3732-233318.

Zenergy Corp.: Founded in 1996 to facilitate the introduction of commercially viable energy alternatives. 390 South Robins Way, Chandler, AZ 85225. Contact Reed Huish, 602-814-7865, Fax 602-821-0967, e-mail: info@zenergy.com

Note: The Fusion Information Center has been acting as an information source to many of these companies. We expect to augment our international service to provide contacts, information, and business opportunities to companies considering an entry into the enhanced energy market.

INFORMATION SOURCES

Advanced Energy Network Newsletter, quarterly. Advanced Energy Network, P.O. Box 691, Rondebosch 7700 Capetown, Rep. South Africa.

Antigravity News and Space Drive Technology, bimonthly newsletter, pub. J.E.Cox Enterprise, P.O. Box

655, Marietta, GA 30061-655 (Phone 770-218-9693). Per year \$36. U.S., \$48 foreign.

Cold Fusion Times, quarterly newsletter published by Dr. Mitchell Swartz, P.O. Box 81135, Wellesley Hills MA 02181.
Home Page: <http://world.std.com/~mica/cft.html>

Cycles, a R&D newsletter, published by Dieter Soegemeier, Editor, GPO Box 269, Brisbane, QLD.4001, Australia.
Phone/Fax: +61 (0)7 3809 3257.

Electric Spacecraft Journal, quarterly, edited by Charles A. Yost, 73 Sunlight Drive, Leicester, NC 28748.

Electrifying Times, 3/year magazine. 63600 Deschutes Market Rd, Bend, OR 97701
541-388-1908, Fax 541-388-2750,
E-mail <etimes@teleport.com>
www.teleport.com/~etimes/

Elemental Energy, monthly newsletter, edited by Wayne Green, 70 Route 202N, Petersborough, NH 03458.
Email: <design37@aol.com>

Foundations of Science, free newsletter pub. 4-6/yr., ed. David L. Bergman. Common Sense Science, Inc., P.O. Box 1013, Kennesaw, GA 30144-8013. 770-565-5504
<Dbergman@CompuServe.com>
www.cormedia.com/css

Fusion Facts has become a section in the *Journal of New Energy*.

Fusion Technology, Journal of the American Nuclear Society, edited by Dr. George Miley, 555 N. Kensington Ave., La Grange Park, IL 60525.

Future Technology Intelligence Report (FTIR), monthly newsletter, making available technological information now omitted from establishment media. Back issues available at substantially lower cost on the InterNet at <www.tarapublishing.com> FTIR, P.O. Box 2903, Sacramento, CA 95812. <ASu2431426@aol.com>

Institute for New Energy (INE), organization to promote and help find funding for new energy research.

Visit our **Home Page**: www.padrak.com/ine/ which contains many important scientific papers and current reports on all areas of research.

E-mail: halfox@slkc.uswest.net
or ine@padrak.com

Salt Lake City, Utah. Voice 801-466-8680,
Fax 801-466-8668.

New Energy News monthly newsletter for INE, highlighting the research and development in the worldwide new energy arena. Edited by Hal Fox.

Infinite Energy, bi-monthly magazine.
P.O. Box 2816, Concord, NH 03302-2816.
Voice: 603-228-4516. Fax: 603-224-5975
E-mail 76570.2270@compuserve.com

A.Keith Brewer International Science Library, a non-profit organization having a Tesla collection; new energy books, publications and videos; one of the German Association of Vacuum Field Energy archives. 325 N. Central Ave., Richland Center, WI 53581; Phone: 608-647-6513; FAX: 608-647-6797; e-mail: drbrewer@mwt.net; web site: www.mwt.net/~drbrewer.

Journal of New Energy, quarterly, presenting papers representing the new areas of energy research, leading-edge ideas in the development of new energy technology, and the theories behind them. Published by the Fusion Information Center, Inc. Editor: Hal Fox. Address & phone above.

KeelyNet BBS - Jerry Decker, 214-324-3501
Internet: www.keelynet.com
E-mail: jdecker@keelynet.com

Planetary Association for Clean Energy Newsletter, quarterly, edited by Dr. Andrew Michrowski. 100 Bronson Ave, # 1001, Ottawa, Ontario K1R 6G8, Canada. Web page: <http://energie.keng.de/~pace>

Positive News and Living Lightly, quarterly, edited by S. Crockett-Burrows. The Six Bells, Bishops Castle, Shropshire SY9 5AA UK. Tel: (01588) 630-121 / 122

Space Energy Journal, quarterly, edited by Jim Kettner & Don Kelly, P.O. Box 1136, Clearwater, FL 34617-1136.

The above list of commercial and information sources will be growing. New listings will be added as information is received. Send information to *NEN*, 3084 East 3300 South, Salt Lake City, UT, 84109.

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