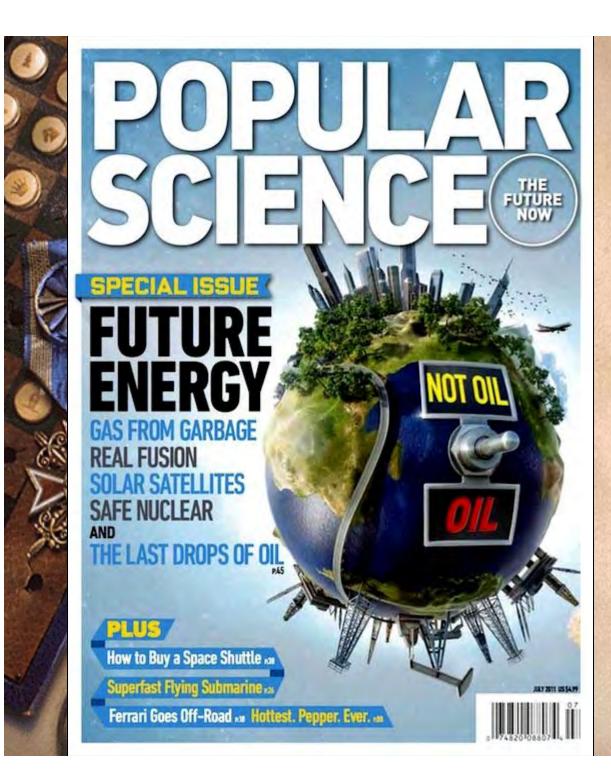
# **Future Energy** n Integrity in Research Theme min Initiative into Breakthrough Energy, **Propulsion and Bioenergy** by Integrity Research Institute **Thomas Valone, PhD, PE Program Director**



**Cover of** *Popular Science*, **July 2011** 

- -Thorium-fueled molten salt reactors
- Fusion energy (ITER)
- Space-based solar power
- Biogas
- Next-gen nuclear reactors
- and the last drops of oil

# **IRI Future Energy Goals**

 Expand new energy discoveries including wireless energy Develop the newly discovered modes of transport propulsion **Create** optimum health with bioenergy

electromedicine

Futurenergy.org BioEnergyDevice.org IntegrityResearchInstitute.org

# D INTERNATIONAL CONFE ON FUTURE ENERGY

**First Ever Zero-Point Energy Panel of Experts** 



## **1999 Conference on Future Energy**



**CONFERENCE ON FUTURE ENERGY** 

COFE

Things

CD-P

29 Apr



#### **US State Department gets** in nds cold feet about cold fusion arning

the centre of [WASHINGTON] A meeting that was to have cally modified been held at the US State Department next and others on Monday (8 March), the departbout publicly month to highlight research on unconvenrch which he tional energy sources seems likely to be scaled down or cancelled because of doubts ed genetically about the credibility of the research. ouse of Com-

Free Energy was to have taken place on 29 and 30 April at the State Department auditorium. The conference is sponsored by the Integrity Research Institute (IRI), a Washington-based group that pro

equate safety tai was forenergy concepts ranging fro power' to 'assisted nuclear react

nealth

Science and arch), Arpad

hat genetical-

a introduced

After a meeting between Foley, Valone ment remained undecided as to whether it will cancel or curtail its involvement in the conference. One source said the organizers were considering moving it to a hotel.

Valone, who is also a patent examiner with the US Patent and Trademark Office, found himself in hot water with his own agency last year when he sent out an Internet notice to "all able-bodied infinite energy



The First International

### **Conference** On **Future Energy**

**Integrity Research Institute** 

### **WORKSHOPS**

Holiday Inn Bethesda Bethesda, Maryland

Saturday, May 1, 1999

## <u>Science & Government Report</u>

SHUNNED BY AGENCIES, 'FREE ENERGY

NULTION DI VACINCUS, "PREZ ENRICA" CONTRESSENT PARALY PINES A HOME II was bialed as indeference on fine energy, but in expla-tions, who'd homes they had then remetly part intel of base of theme from the government, ended of having a par-ticulation of the time base Department, when the iso homes pathwing or influent statuse, explanation that in the lo homes pathwing or influent statuse, department, when the isolation and the statuse of the statuse of the statuse and status apprently is a reliable to may department news the method on the statuse of the statuse and main status apprently in statulation to may department and the statuse and on the statuse of the status and main statuses. The statuse of the statuses are apprent of the status of the status of the status and status and the status of the status and status and the status and status apprents in a status of the status and status and status apprents in a status of the status and status and status apprents in a status of the status and status and status apprents in a status of the status and status and status apprents in a status of the status and status and status apprents in a status of the status and status apprents in the status and status apprents in a status of the status and status apprents in the status and status apprents in a status of the status and status apprents in the status and status apprents in a status of the status and status apprents in the status and status apprents in a status of the status and status apprents in the status and status apprents in a status apprent in the status and status apprents in the status and status apprents in a status apprent in the status app

when provide surfacements resides, Alas, the same periods they indead on first accessing to State. Be Alarmanne Physical Society's Mohar Park, tools it speed humanif to having him-top and the state of the same strength and the same strength its shear "Math." News," addition that he alared book Theory Theorem and the strength and the same strength and the Commercient's National Institution of StateAlastic and Technology in shear the ward's man, global the collegence of the stra-tic for the strength and the same strength and the Commercient's National Institution of StateAlastic and Technology in the last ward's man, global the collegence of the stra-tic for any survey and the segmentarity without Park's intervention.

nervention. In the end, the Washington-based Integrity Research natizate, which organized the event, had to settle for a Holi-tay lon in nearby Behreada for the three-day event that rat hough May 1. Cold fusion group: Regrets Malow, who pub-abes *Infinite Energy* magazine, came through with the fund ded to rent the rooms.

needed to rent the norms. All the notoriety helped the conference to attract at en-humanistic, if straul, crowd. Various schemes for free energy were touted, including cold fusion, a "radiant energy" de-vice that extract radio frageneys emergy from lightning bolts, and mining betture.3 freen the moon for clean fusion fuel. An and mining between the moon to clean tauton thet, we notifie bookstore disponsion works ranging from electrogravitics, the "anti-gravity" technology that some claim helps to power the B-2 stealth bomber, to biographies and the complete parent collections of Nikola Tesla, the ebbaar insugrant who invented the alternating current mo-Serbian investigates who increased the alternating current mo-tors and height dwistightous been area. Thomas, Bidiano to establish AC electricity as the standard. What free energy afficionation administration with the standard the in life of a wireless delivery system for electricity. Just as with scheer free energy schemes, they way, the issues of its duary could seen to way to porfit on such a schemen, and public their support for Teals a work. . But the highlight of the conference was an apparatore by Sarcen A. Guere, the foremer temporary norm physician

Volume XXIX, Number 9 / May 15, 1999

who heads the nonprofit Center for the Snady of Extraterres-trial Intelligence. Working versions of flying saucers, he in-formed attendees, have been built by a super-securit conso-tions of the big defence coeracters, and he historielf is on the oard of a small company, which he won't identify, that is

norm or a small company, which be word is doubly, that is utilizing a productype sauce: What do flying saucers have to do with firse energy? The same counterrotating electromagnetic fields that allow (PO's to antihilter gravity and allow travel at faster than be speed of light could make the world's fouli-fact based

the speed of tigs could make the world's fourth-left band commission shows energing, says Gener. The chains the technology that advass UFO's to stry gravity as well-known the milling valuational complex, but is high under maps in other in so dentabilities the entire world. Elsewisk, an detection alongener who platities. Elsewisk, and entire alongeners that platities. Elsewisk, and entire alongeners that platities. Elsewisk, and entire alongeners in the platities. Elsewisk, and entire alongeness in the straight of the start fails the desert coulde Biosecia, and API the just fair a strate in the desert coulde Biosecia, and are the just and ELSE informed by an organizer than an atomed paral was in the malar of the elsewise the strategy on a story areas, which is the malar of the elsewise the strategy on a story areas, and is the malar of the elsewise the story of the story of the story of the story of the elsewise the story of th

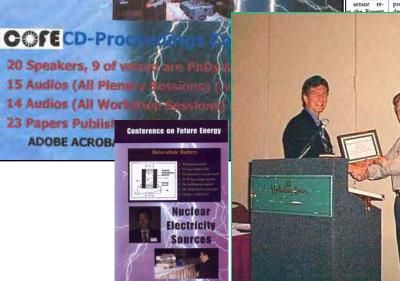
lance. SGR, which popped in a day later, was in the midst of buzz went up: Park had bee

#### NO RECORDS SET AS NINE WOMEN ARE ELECTED MEMBERS OF ACADEMY

ELEC. Iter (TEXTERS) UP ACADENT No giant step toward gender equality was set last month-when the National Academy of Sciences elected nine women to membership. The figure is shy of the record of 11 who were let in during 1996, but is one higher than last year's

Crip. Crip. The academy admined a total of 60 new members this year during in annual meeting last month. The number of women who hold membership in the sugast hold now stands at 114, four higher than last year c. just were 6% of a sould active membership of 1853. Two womens were among the 15 non-voting foreign as-

acuve membership of 1825. Two women were among the 15 non-vosing foreign as-sociates admined to the academy. Despite their addition, the member of female foreign members actually declined by one during the year, to 14, even as total membership in the car-estory more three. In 313



Dr. Paul Brown Bruce Perreault

Photo Courtesy of Ms. Jeane M



# **Future Energy Surge of 2009**

### WORLD FUTURE ENERGY Abu Dhabi, 19-21 January 2009 SUMMIT www.WorldFutureEnergySummit.com

### **SPESIF 2009**



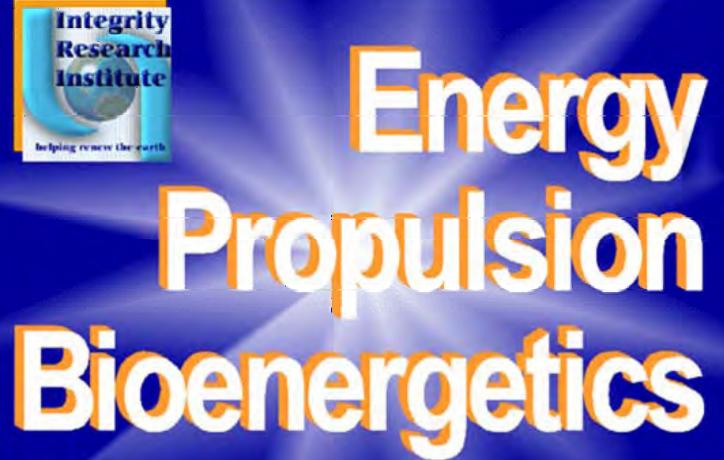




- World Future Energy Summit, **Abu Dhabi**, Jan. 19-21, 2009
- SPESIF Future Energy Source Workshop, Huntsville AL, Feb. 24-26, 2009
- Future Energy Forum, Bilboa, Spain, June 9-11, 2009
- Conference on Future Energy, Washington DC, Oct. 9-11, 2009 (COFE3 was third in a series, tenth anniversary)



# **Programs Fulfilling IRI's Non-Profit Mission**

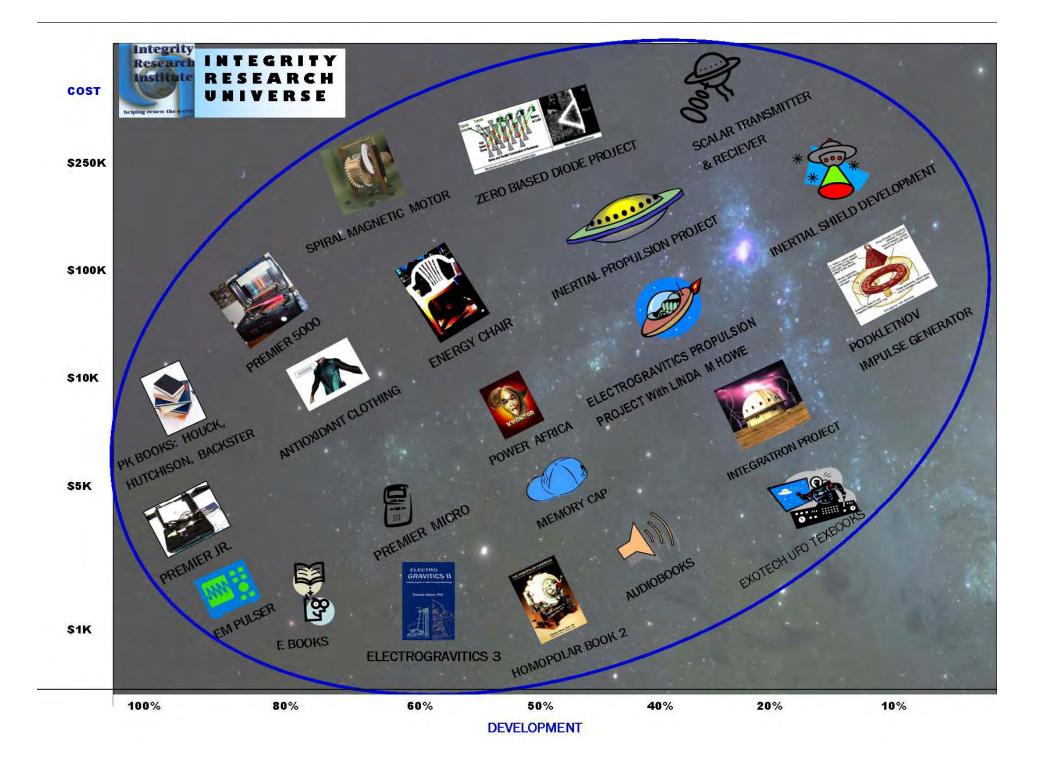


www.IntegrityResearchInstitute.org

# IRI Future Energy Projects

- Electric Antioxidant Clothes
- **PREMIER High Voltage Electrotherapy**
- Pulsed Electromagnetics (EM Pulser)
- OsteoPad Electric Bone Hardener
- Tunneling Diode Array Energy Generator
- Spiral Permanent Magnet Motor
- Inertial Shield and Electrogravitics
- Public Education (books, conferences, Future Energy eNews, videos, audios)

Futurenergy.org and BioenergyDevice.org



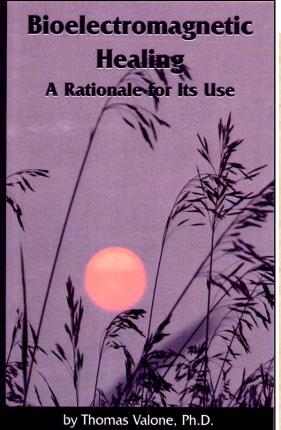
# Athena

 Goddess of Wisdom and Light which can represent the science of high voltage
 Bioelectromagnetics

- Daughter of Zeus
- Goddess of Lightning



# **BIOENERGETICS PROGRAM Energy Medicine Projects**



- Electric Clothes, OsteoPad, PREMIER
- HF EMF can be "pulsed" called PEMFs
- Low transmembrane potential TMP = disease = low Na-K pump & ATP impairment
- External high voltage PEMFs increase TMP
- Boosting TMP while creating electron transfer to fight free radicals helps the immune system and gives the body MORE ENERGY
- Electric gradients vs. chemical gradients

"<u>Electrons are antioxidants</u> and high voltage EMFs strengthens immune response." – Dr. T. Valone

# **Electrons are Antioxidants**

## FREE RADICALS STEAL ELECTRONS

creating more free radical DAMAGE in a chain reaction (10,000 times)

## **Damaged mitochondrial DNA causes aging**

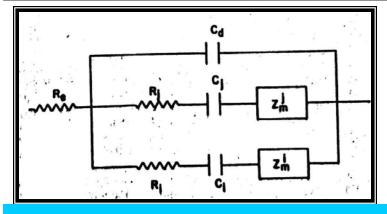
## ANTIOXIDANTS STOP FREE RADICALS WITH ELECTRONS

## **References**

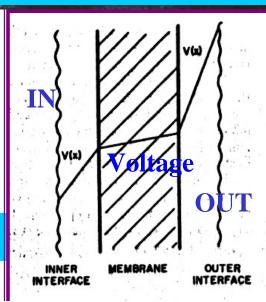
- "Oxidative damage causes aging" Life Enhancement, Oct. 2004
- "Dying before their time: studies of prematurely old mice hint that DNA mutations underlie aging." *Science News*, July 10, 2004, p. 26
- "Mice and mitochondria" Martin, *Nature*, 2004, V. 429, p. 357,417



### **TransMembrane Potential = TMP = 10 million volts per meter!**



Membrane equivalent circuit



Voltage-gated channels: **TMP** = -70 to -100 mV in healthy individuals. **TMP is 100kV/cm** with a capacitance of 1 microfarad/cm<sup>2</sup>

## **Bioenergy Products**

### PAGE 19

### **PREMIER JUNIOR LINE** (Photonic Rejuvenation Energizing Machine & Immunizing Electrification Radiator)

Our bestselling bioenergy machines, have just been improved and expanded to 4 different models. Based on Tesla and Rife Technologies and the Azure Patent, these machines energize the body in a very short exposure. Uses the Nobel gas tube to deliver antioxidant electrons into the body tissues which studies show directly neutralize free radicals. Invigorating and desinfecting, helps disease resistance. All come with a 30 day money back guarantee and 1 full year warranty for parts and labor.

### PREMIER Jr. 100 or 200

These models include the High voltage coil, small case and 1 tube. The model 100 has a Y-shape which is ideal for neck and extremities treatment and the 200 model has a small mushroom shape ideal for concentrated treatment in one area. Both are just as effective. \$ 495.



### PREMIER Jr. Model 500

This model has the same benefits as the others plus 4 tubes: 1 mushroom small, I mushroom large, both ideal for concentrated energy in one area. 1 Y-shaped, excellent for neck and knee areas. 1 comb-shaped ideal for scalp, fingers and toes. Large high impact case included. \$795.



### PREMIER Jr. Model 300

This model includes the high voltage coil, high impact medium size case and two tubes: 1 small mushroom and 1 Y-shaped Having both tubes gives you complete coverage of all body parts and a choice for your specific need. If you want to treat your neck or extremities, use the Y tube. If you want to concentrate on one area, use the mushroom tube. \$ 595.



## Photonic Rejuvenation Energizing Machine & Immunizing Electrification Radiator (PREMIER)



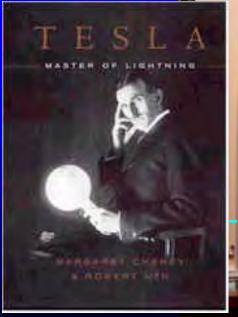


Dr. Richard Gerow with Model 200 PREMIER Junior Dr. Ja Model 100 usi

Dr. Jacqueline Panting using Model 2500

### **IRI Bioenergy Project**

- Recreation of the Autocondensation Couch in a more compact form
- HV broadband PEMFs
- Whole body TMP boost
- Debut at Whole Person Healing Conference 2005



# **Bone Knitting OsteoPad**<sup>TM</sup>

• <u>1 out of 2 people</u> will develop **osteoporosis**\*

• OsteoPad<sup>TM</sup> provides a patented EM signal proven to stimulate calcium transport across bone cell membrane, just like weight bearing exercise creates piezoelectric signals

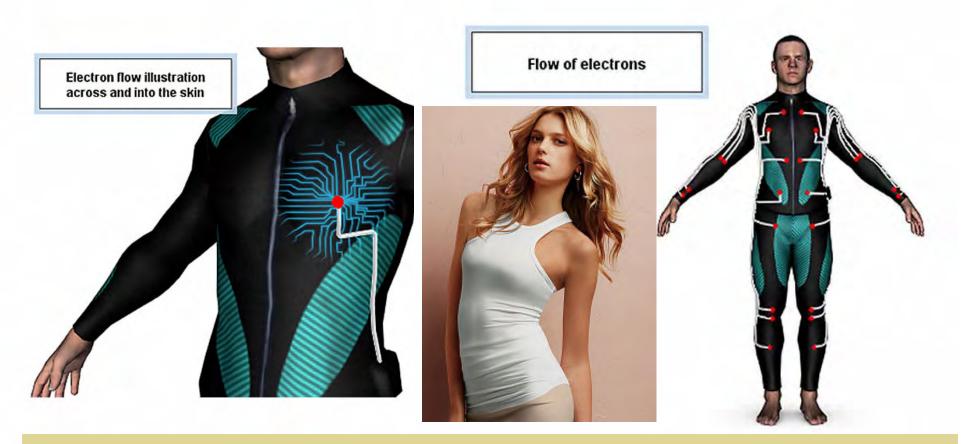
Heals bone fractures in 1/2 of the time

- Strengthens bones of elderly *while they sleep*, reversing osteopenia and osteoporosis
- In development by IRI in cooperation with Dr. Manning who patented an early version

\*Time, October 25, 2004, p. 101

# **Electric Antioxidant Clothing**

Patent pending – Dr. Jacqueline Panting



Supplying antioxidant microcurrent electrons to skin-tight clothing boosts energy and performance for athletes and regular people

# Dr. Andrija Puharich MD Nerve Deafness Project

- Restore and test his TD 1000 audio stimulator which cured nerve deafness
- Donated to IRI by Puharich family
- US Patent 3,563,246

#### [54] METHOD AND APPARATUS FOR IMPROVING NEURAL PERFORMANCE IN HUMAN SUBJECTS BY ELECTROTHERAPY 13 Claims, 3 Drawing Figs.

 [52]
 U.S. Cl.
 128/422;

 [51]
 Int. Cl.
 331/47, 331/56

 [50]
 Field of Search
 128/362,

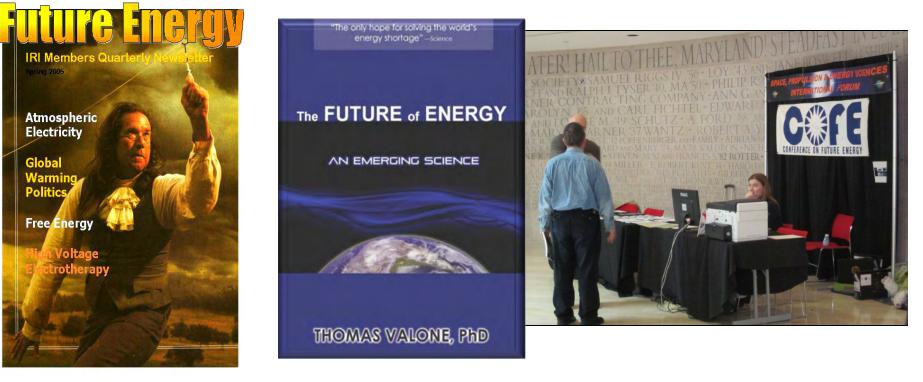
 380, 404, 409, 413, 419, 420, 421, 422

ABSTRACT: A method of patient rehabilitation by electrotherapy including periodically electrically stimulating the patient in the region of his facial nerve system by a controlled alternating electrical treatment signal, which signal is an amplitude modulated, double sideband signal of less than 100 kHz. The treatment signal is applied to the patient's head through a pair of electrodes comprised of two bare electrodes or two insulated electrodes, or one insulated electrode and one bare electrode. The patient's head is an element in an LC series resonant circuit established with the treatment signal source.

# **Integrity Research Institute**

### IntegrityResearchInstitute.org

- ENERGY RESEARCH AND EDUCATION WITH SCIENTIFIC INTEGRITY
- Conferences, Books, Reports, Products & Future Energy eNews



- ADVOCACY FOR THE COMMON GOOD without favoritism
  - nonprofit 501(c)3 organization that accepts tax-deductible donations

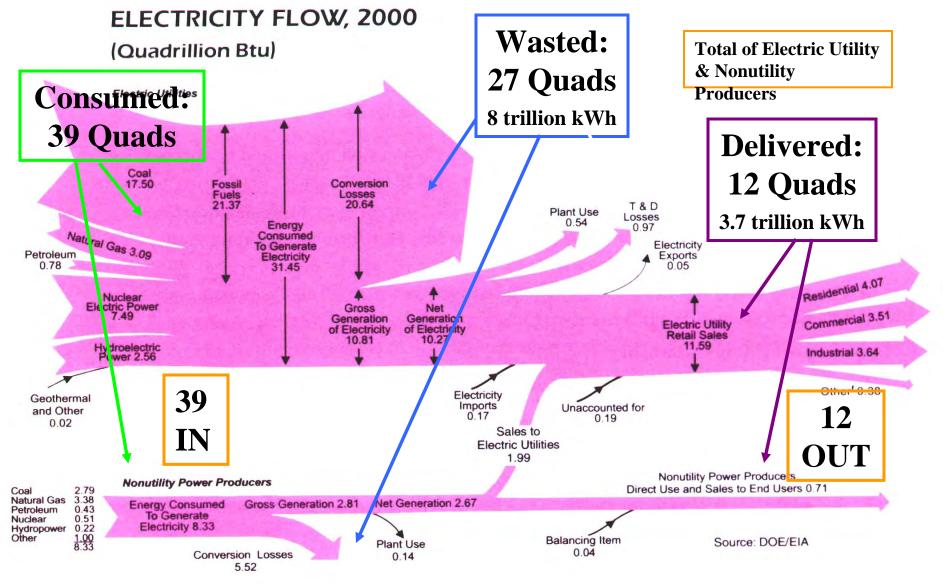
### June 25, 2002 Lou DOBES MONIAVENE MONIFORM VALONE PRES., INTEGRITY RESEARCH INST. 531, ET HOLLYWOOD WALK OF FAME CIAL ROUNDBALL REJ

**JERGY PROGRAM** 



## With a capitalist approach to energy 2/3 of US Electricity is Wasted





## Shell Oil addresses the present <u>one million new people per</u> week population growth in "Energy for the Future" (2 min.)



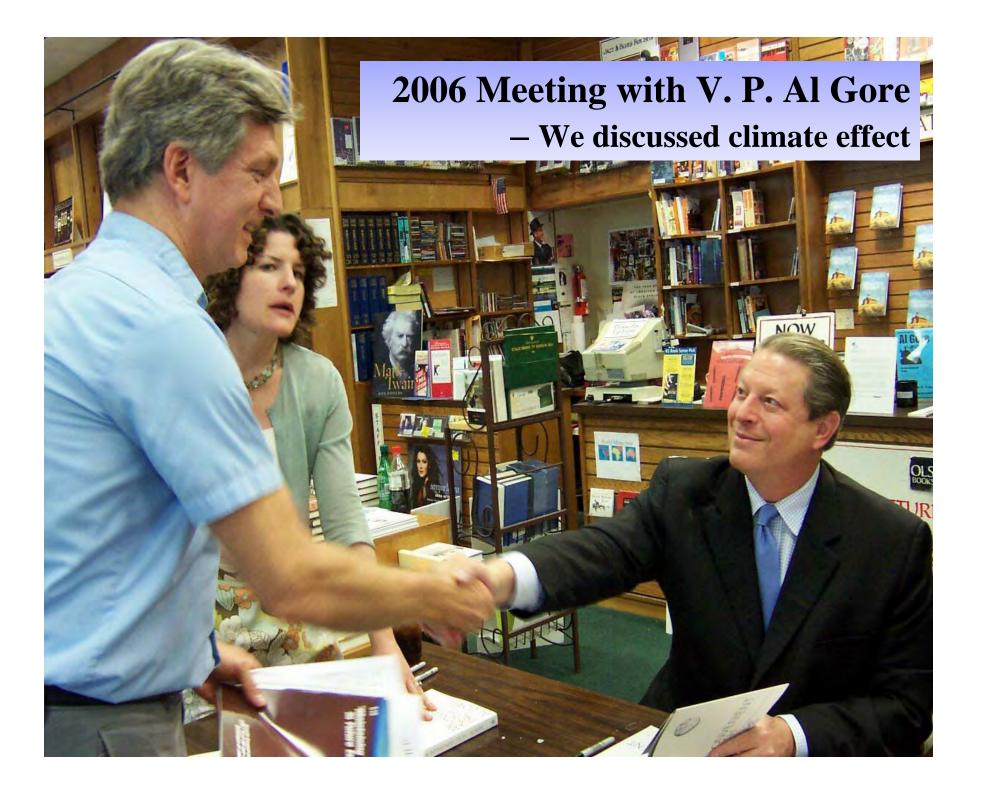
http://www.youtube.com/watch?v=J2khSYZC9ks &list=PL1A4D83E7390B2A47

# Reinventing Fire provides a credible path to a U.S. economy free of oil and coal by 2050

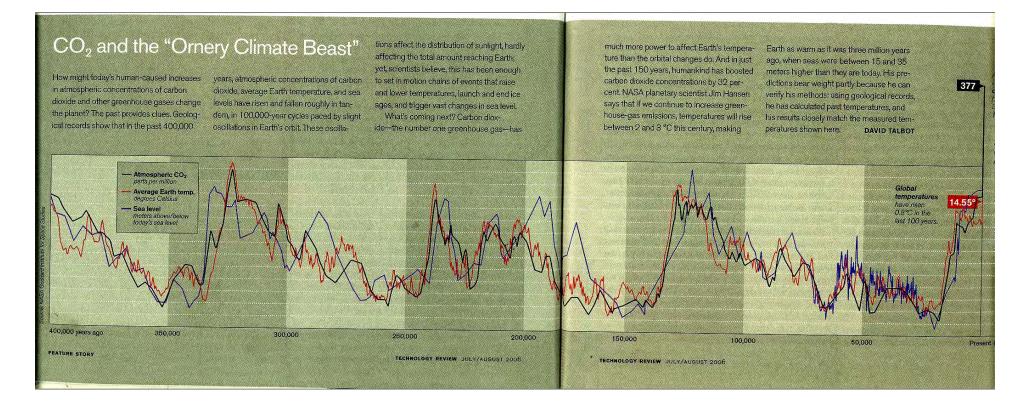
### 150 Reinventing Energy Use in the U.S. Economy, 2010-2050 Fire video on YouTube ...extrapolated.. EIA's projected 100 quadrillion BTU Efficiency savings Savings? more-productive use nuclear 50 renewables natural gas oil 0 2010 2020 2030 2040 2050 Unlock Support a Use

**Book release in 2011** 

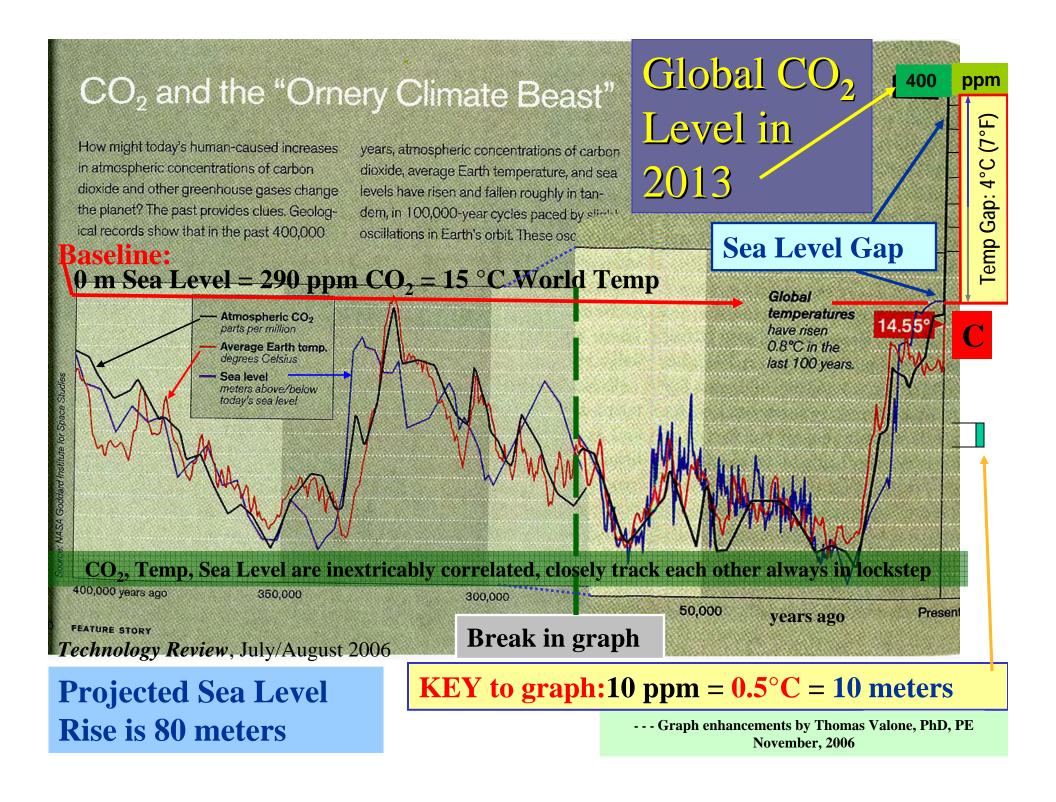
Rocky Mountain Institute, RMI.org, founded by Amory Lovins



## Earth's Most Recent 400,000 Year Climate History credit: Dr. Jim Hansen, NASA Goddard Inst. for Space Studies



## MIT's Technology Review, July/August, 2006



### SPECIAL REPORT / CLIMATE CHANGE

yours

130

conf

incre

15%

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Califo

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Stefa

#### It may happen in our lifetime. Shanta Barley investigates what life will be like

BY 2055, climate change is likely to have warmed the world by a dangerous 4°C unless we stop pumping greenhouse gases into the atmosphere the way we do now. This is the startling conclusion of a study by the UK Met Office, unveiled at a conference in Oxford this week.

Why so soon? Because temperature rises caused by greenhouse gas emissions are expected to trigger dangerous feedback loops, which will release ever increasing amounts of greenhouse gases. The nature and scale of these feedback loops is a subject of vigorous debate among climate scientists, but warmer oceans, for instance, may liberate more

#### The Amazon – gone

In a 4°C world, climate change, deforestation and fires spreading from degraded land into pristine forest will conspire to destroy over 83 per cent of the Amazon rainforest by 2100, according to climatologist Wolfgang Cramer at the Potsdam Institute for Climate Impact Research in Germany.



dissolved CO<sub>2</sub>, and plants may decay faster Institute for Climate Impact Research. in a warmer climate. The Met Office ran 17 different models with these feedbacks. All concluded a 4 °C world by 2055 was likely lucky, we are still likely to hit 4 °C by 2070.

Germany. Even the less pessimistic estimate of a 0.65-metre rise by 2100 would put at least 190 million people a if emissions continue to rise. Even if we are year at risk from floods, says Rahmstorf's colleague lochen Hink

The Nation

### Washington Post, 9/25/09, p. A4 New Analysis Brings Dire Forecast **Of 6.3-Degree Temperature Increase**

#### By JULIET EILPERIN Washington Post Staff Writer

Climate researchers now predict the planet will warm by 6.3 degrees Fahrenheit by the end of the century even if the world's leaders fulfill their most ambitious climate pledges, a much faster and broader scale of change than forecast just two years ago, according to a report released Thursday by the United Nations Environment Program.

The new overview of global warming research, aimed at marshaling political support for a new international climate pact by the end of the year, highlights the extent to which recent scientific assessments have outstripped the predictions issued by the Nobel Prize-winning U.N. Intergovern-mental Panel on Climate Change in 2007.

Robert Corell, who chairs the Climate Action Initiative and reviewed the UNEP report's scientific findings, said the significant global temperature rise is likely to occur even if industrialized and de-



Farmers are overshadowed by a smoke-belching cement factory outside Hanoi. Even with sharp emissions curbs, temperatures may rise disastrously.

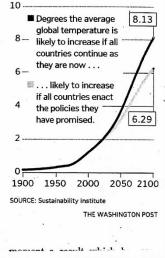
## Then in 2009, **TWO DIFFERENT CLIMATE GROUPS:**

### SAME PREDICTION

### Warming Trend

Researchers say global temperatures as likely to rise more than six degrees by the end of the century even if every country enacts all climate legislation it has promised to enact to date.

Temperature increases, in degrees Fahrenheit



# Prometheus

0000000000

•Son of Titan Iapetus, Steals Fire from the Gods to give to Mankind and is punished.

•Represents our current stage of Irresponsible Energy usage and disregard for consequences.

•Rescued by Hercules, thus showing that a **Herculean effort** is needed to overcome irresponsible usage.



## President Clinton on Climate and Energy



# **EEStor Ultracapacitors** for Electric Vehicles, Laptops



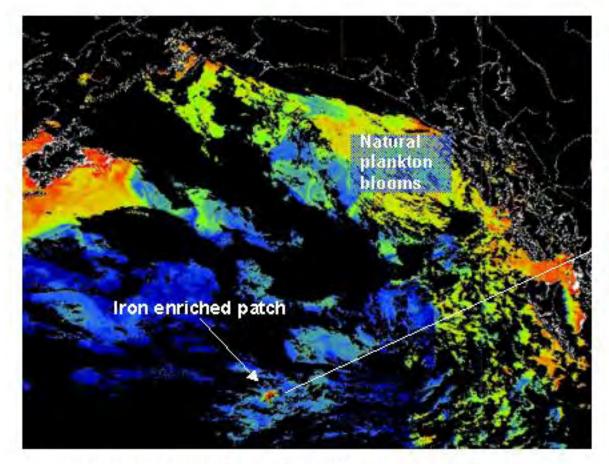
ZENN car will be the first application of EEStor capacitors late in 2012

### **Fechnology Review, Jan 22, 2008**

- EEStor Inc. based in Texas
- 10x more energy than batteries
- Half the cost of batteries
- No replacement needed over life
- Quick recharge
- ZENN Cars collaboration

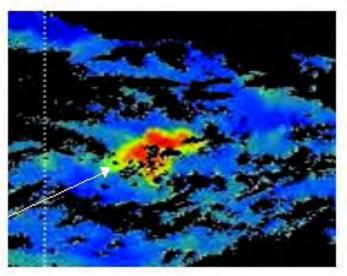
## PLANKT®S \* IRI ADVOCACY PROJECT \*

## Iron stimulated blooms are very similar to natural blooms



SERIES (2002) iron fertilization patch near Alaska compared with a natural bloom

2012 success published in Nature magazine



Close-up of the SERIES bloom (~ 2000 km<sup>2</sup>) 20 days after iron application

A Planktos bloom will be 5-10 times this size ... still a small fraction of the surrounding natural blooms

## **Iron Seeding for Plankton Bloom CO2 Capture Vindicated** ENVIRONMENT

SPACE TECH

HEALTH

PHYSICS8MATH

SCIENCE IN SOCIETY

## **My New Scientist**

## See Russ George DVD IRI's COFE2 in 2006

Home | Environment | News

### Geoengineering with iron might work after all

18 July 2012 by Michael Marshall Magazine issue 2874. Subscribe and save For similar stories, visit the Climate Change Topic Guide

#### Editorial: "We can't afford to neglect ways to halt global warming"



IF YOU want to help stop climate change, try tipping some iron into the sea. For years, this geoengineering idea has been considered a busted flush, but new results suggest it really can work.

Tiny floating algae called phytoplankton pull carbon dioxide out of the atmosphere. When they die, the plankton sink to the seabed, taking the carbon with them. Over thousands of years, this strips CO2 from the air, lowering temperatures.

But many ocean regions are short of iron, which plankton need to grow, so the process does not occur. Adding iron should stimulate plankton growth in these areas.

That was the theory, at least. In practice, it is charitable to say the results have been mixed. For many people, the idea died in 2009, when a field trial called



Algae love iron (Image: Power i Photo Library)

### Capturing Ambient Electromagnetic Energy To Drive Small Electronic Devices

### July 8, 2011 by Editor Ray Kurzweil

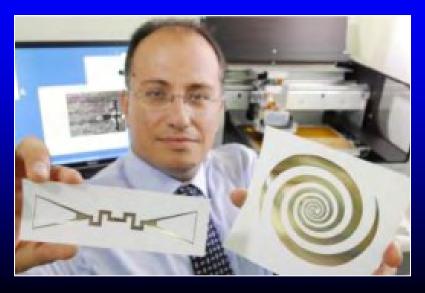
Georgia Tech School of Electrical and Computer Engineering professor Manos Tentzeris holds a sensor (left) and an ultra-broadband spiral antenna for wearable energyscavenging applications. Both were printed on paper using inkjet technology.

Researchers at **Georgia Tech** School of Electrical and Computer Engineering have discovered a way to capture and harness energy transmitted by radio and television transmitters, cell phone networks, and satellite communications systems by scavenging ambient energy from the air.

The researchers used inkjet printers to print sensors and **ultra-wideband antennas** on paper or flexible polymers, functioning from 100 MHz to 60 GHz.

**Energy Harvesting is now Mainstream Free Energy!** 

Prof. Moddel has Terahertz antennas



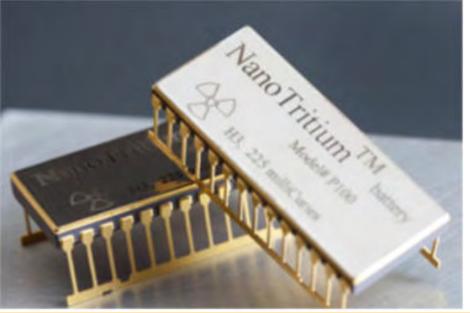
# 

# Innowattech – 500 kW per km

- Piezoelectric panels for <u>roadways</u> and <u>train tracks</u>
- Generates electricity from passing vehicles
- Game changing invention ready for installation
- Should be developed in this country as well
- Advocated by IRI in *Future Energy Annual 2012*



# **Tritium Betavoltaic Battery** BREAKTHROUGH



- ECN magazine 7/2012
- Nanowatt power AFRL
- 20 40 year lifespan
- IRI advocacy for 10 yrs.
- Paul Brown IRI COFE 1999, Patent # 4,835,433

CityLabs.net Model P100

BetaBatt Inc. - SBIR grant from NSF

U of Wisconsin solved degradation with liquid electrodes IEEE Spectrum, 2004 "Daintiest Dynamos"

**Ray Kurzweil "Ten** Coolest Technologies -PC magazine, 7/12/06 NewScientist

# BREACHER Generates Energy ONLY from a Wet Surface

## <u>http://bcove.me/31dl8lll</u>

- MIT reports a polymer with a piezoelectric layer generates electricity only from a moisture gradient without any pressure!
- 30 second MIT video shows movement as polymer dries and then flattens out to get wet again – a true free energy generator!

## NewScientist

Moisture turns film into artificial muscle

**10** January 2013 by **Jacob Aron**- New Scientist

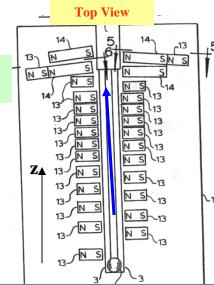
# **Magnetic Field Gradients**

## The Stern-Gerlach Experiment and Electron Spin Modern Physics, Schaumm's Outline Series, Gautreau, McGraw Hill, 1978 In the Stern-Gerlach experiment, performed in 1921, a beam of silver atoms having zero total orbital angular momentum passes through an inhomogeneous magnetic field and strikes a photographic plate, as shown in Fig. 21-1. Any deflection of the beam when the magnetic field is turned on is measured on the photographic plate. Their experimental setup: The magnetic field B 24 is more intense near the pointed surface at the top than near the flat surface below, creating a slope in a graph of B vs. z, which is the gradient dB/dz. Beam of Photographic silver atoms Inhomogeneous plate magnetic field Fig. 21-1

The purpose of the *inhomogeneous* magnetic field is to produce a deflecting force on any magnetic moments that are present in the beam. If a homogeneous magnetic field were used, each magnetic moment would experience only a torque and no deflecting force. In an inhomogeneous magnetic field, however, a net deflecting force will be exerted on each magnetic moment  $\mu_{a}$ . For the situation of Fig. 21-1,

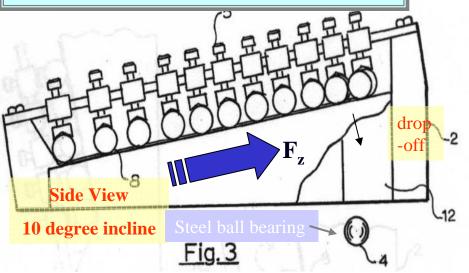
$$F_z = \mu_v \cos\theta \, \frac{dB}{dz} \tag{21.1}$$

where  $\theta$  is the angle between  $\mu_r$ , and **B**, and dB/dz is the gradient of the inhomogeneous field

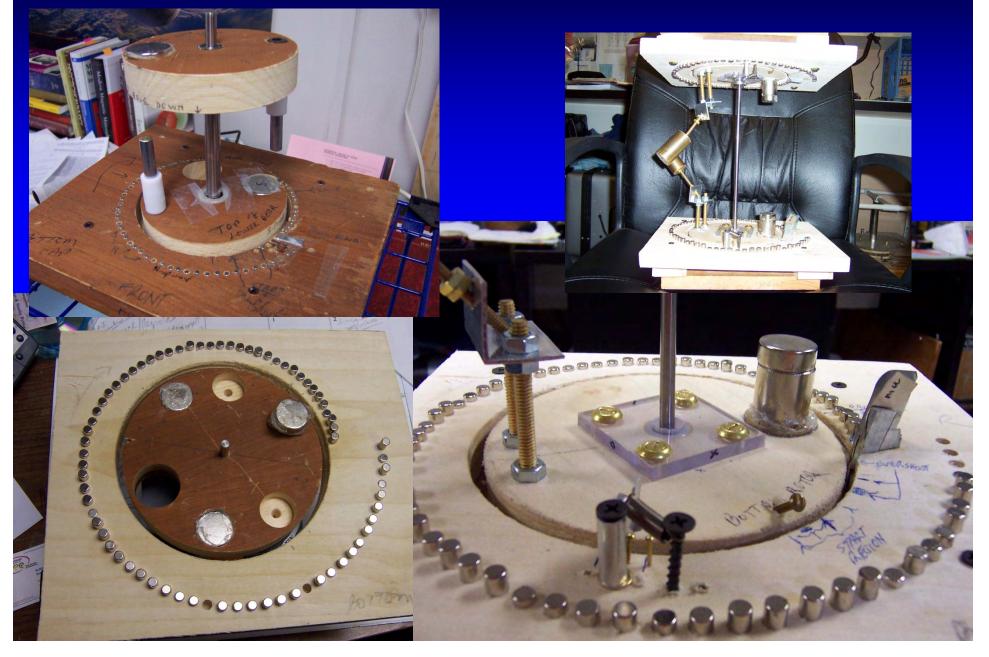


The net <u>Force</u> created on the ball bearing = the <u>magnetic field</u> <u>gradient</u> multiplied by the induced magnetic moment, as with the Stern-Gerlach Experiment

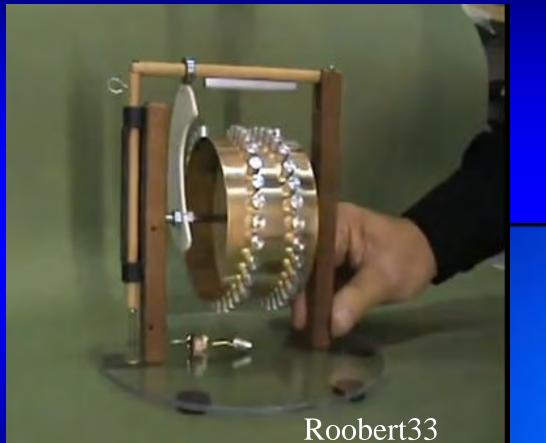


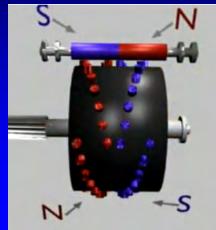


# Valone's Spiral Magnetic Motors



# **V-Gate Spiral Magnetic Motor**





http://www.youtube.com/watch? v=bssBAb6EzM4



# **Science Times**

## Ehe New York Eimes

**Jan 21, 1997** 

TUESDAY, JANUARY 21, 1997

## Physicists Confirm Power of Nothing, Measuring Force of Quantum 'Foam'

Fluctuations in the vacuum are the universal pulse of existence.

## By MALCOLM W. BROWNE

OR a half century, physicists have known that there is no such thing as absolute nothingness, and that the vacuum of empty space, devoid of even a single atom of matter, seethes with subtle activity. Now, with the help of a pair of metal plates and a fine wire, a scientist has directly measured the force exerted by fleeting fluctuations in the vacuum that pace the universal pulse of existence.

The sensitive experiment performed at the University of Washington in Seattle by Dr. Steve K. Lamoreaux, an atomic physicist who is now at Los Alamos National Laboratory, was described in a recent issue of the jourr Physical Review Letters. Dr. Lamoreaux's results almo perfectly matched theoretical predictions based on que tum electrodynamics, a theory that touches on many the riddles of existence and on the origin and fate of t universe. The Fuc of the Future

Thomas

Valone

The theory has been wonderfully accurate in prediing the results of subatomic particle experiments, and has also been the basis of speculations verging on scien fiction. One of the wilder ones is the possibility that t universal vacuum — the ubiquitous empty space of t. universe — might actually be a false vacuum.

If that were so, something might cause the presentday universal vacuum to collapse to a different vacuum of a lower energy. The effect, propagating at the speed of light, would be the annihilation of all matter in the universe. There would be no warning for humankind; the earth and its inhabitants would simply cease to exist at

Continued on Page C6

# **Quantum Energy Extraction**

## Haisch-Moddel patent 7,379,286 It is reasonable to expect that a 0.1 microns Casin

It is reasonable to expect that a 0.1 microns Casimir cavity would result in a release of 1 to 10 eV for each injection of a He, Ne, Ar, Kr or Xe atom into such a cavity.

# Test of zero-point energy emission from gases flowing through Casimir cavities

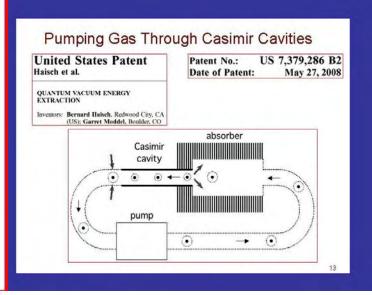
Space, Propulsion & Energy Sciences International Forum - 2012 1 March 2012

Olga Dmitriyeva & Garret Moddel\* Department of Electrical, Computer, and Energy Engineering University of Colorado \*Presenter (also with Jovion Corporation)

**Parallel plates** 

14

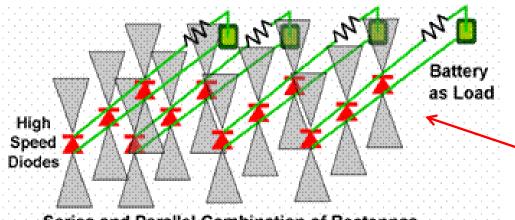
this orbit is  $6.6 \times 10^{15}$  s<sup>-1</sup>, no matter injected into a Casimir cavity the ne as experienced by the orbiting assume that the decay to a new 11 involve gradual release of energy er than a sudden optical radiation



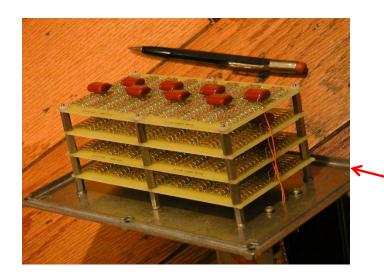
# **Haisch-Moddel ZPE Conclusion**

"We are in effect extracting energy locally and replenishing it globally. Imagine extracting thimbles-full of water from the ocean. Yes, the ocean is being depleted thereby, but no practical consequences ensue" -- Haisch-Moddel patent #7,379,286

# **Rectifying Ambient Thermal and Nonthermal Electric Noise**



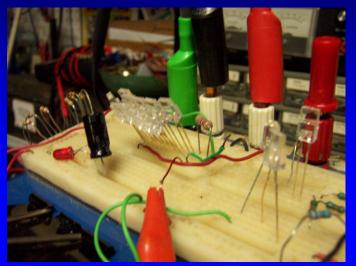
Series and Parallel Combination of Rectennas



- Prof. Dagenais & Moddel amplifies ambient thermal energy harvested with nanorectennas
- Zero-bias diodes that need no minimum energy to conduct
- Backward tunnel diodes
- Example of a Diode Array 24-hour electrical energy source

# IRI Diode Energy Converter Research



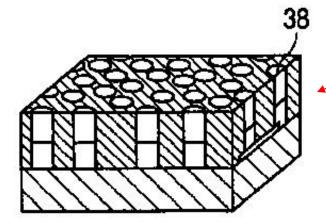


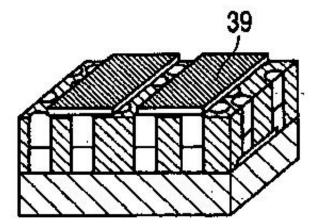
10 Megohm resistor in series with 10 diodes



Keithley 486 Picoammeter reads 2.27 nanoamps constant current with or w/o resistor in series

# **Proposed Diode Energy Array Converter (DEAC) Design**





**1) Kuriyama, Patent #7,183,127** cites Brown patent "Diode Array" #3,890,161

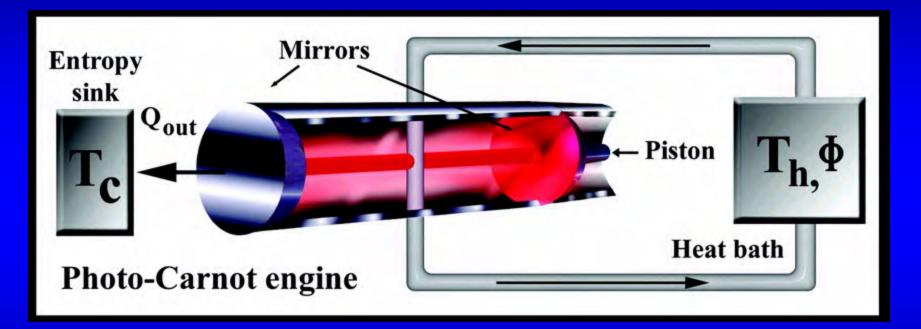
Kuriyama: **1 nm diode pillars** with 3 nm spacing yields 10<sup>12</sup> diodes / cm<sup>2</sup>

2) Compares favorably to Hastas, 2003\*
with GaAs Schottky diodes grown by atomic layer molecular beam epitaxy (ALMBE) yielding 10<sup>11</sup> diodes / cm<sup>2</sup>

\*Hastas, *J App Phys*, 93, 7, 2003, p. 3990

# Work from a Single Heat Bath

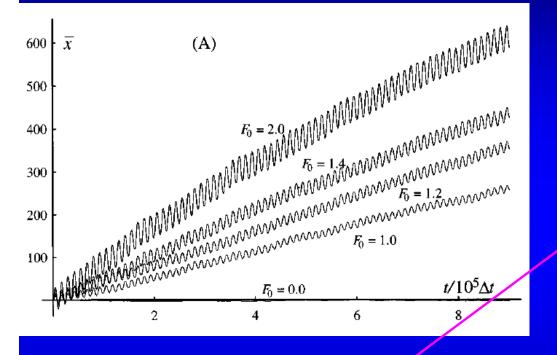
## **Quantum Coherence Expands the Second Law of Thermodynamics**

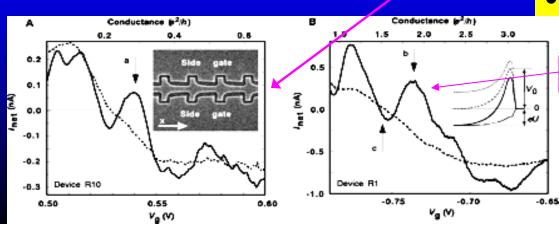


"Working fluid" is <u>radiation pressure</u> from a microlaser which drives piston Efficiency exceeds a classical engine even when  $T_c = T_h$ 

Ref.: Scully, Science, V. 299, Issue 5608, 2003, p. 862

# **Fluctuation-Driven Electricity**





- Fluctuation theorem\* predicts <u>negative work</u>
- Periodic boundaries
- Quantum ratchets
- Rectifies thermal noise
- Operate at T = 5 K
- Input avg. force = 0

Temp. dependent current reversal

"Experimental Tunneling Ratchets" Linke, *Science*, 286, 1999

\*Crooks, Phys. Rev. E, 60, 1999

PRL 96, 210601 (2006)

0

0

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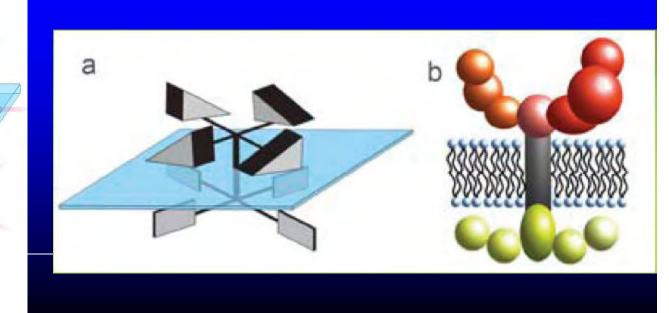
## PHYSICAL REVIEW LETTERS

2 JUNE 2006

## **Brownian Refrigerator**

C. Van den Broeck Hasselt University, B-3590 Diepenbeek, Belgium

temative, and arguably more promising approach, would be to utilize thermal fluctuations rather than fighting them. A well-documented example is the Brownian motor [1,2], which generates power through the rectification of thermal fluctuations. In this Letter, we present a novel method of microscopic cooling based on a Brownian motor in which, almost paradoxically, thermal fluctuations themselves can be hamessed to reduce the thermal jitter in one part of the system.



# **Repulsive Casimir Forces** O. Kenneth, I. Klich, A. Mann, and M. Revzen Phys. Rev. Lett. **89**, 033001 (2002)

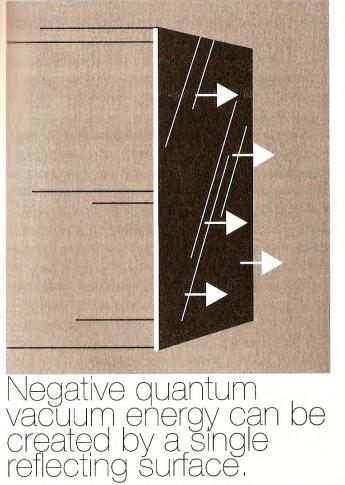
"We discuss repulsive Casimir forces between dielectric materials with nontrivial magnetic susceptibility... Indeed repulsive Casimir forces may be found in a large range of parameters, and we suggest that the effect may be realized in known materials. The phenomenon of repulsive Casimir forces may be of importance both for experimental study and for nanomachinery applications... for large permittivity and permeability, the <u>transition between attractive and repulsive behavior depends</u> <u>only on the impedance</u>  $Z = (\mu / \epsilon)^{\frac{1}{2}}$ 

In addition we show that at high temperatures there is always attraction, and thus in some cases, <u>the force changes sign as the temperature is</u> <u>increased</u>."

This article demonstrates that a push-pull <u>oscillating engine</u> is possible--only a variable ambient temperature input required. sources of energy pervading the system, since the purpose of the experiments is to test Casimir's prediction, not actually to create a region of negative energy. The experiments confirm the theory. The force of attraction between two perfectly reflecting plates one meter square held a hundreth of a millimeter apart is equivalent to the weight of just a millionth of a gram. But the force grows larger as the plates get closer. With real metal sheets, which are never perfectly flat, the effect is complicated by other factors long before the Casimir force becomes large. However, this hasn't stopped some imaginative theorists from toying with ideas of using the Casimir effect, and other quantum vacuum effects, as the basis of a spacecraft propulsion system.

## OTHER WAYS OF MAKING NEGATIVE ENERGY

The Casimir effect is the most famous, and easiest, method of producing negative energy by disturbing the quantum vacuum. But there are other ways too. Negative quantum vacuum energy can be created by a single reflecting surface (that is, a mirror) if it is moved vigorously. In the mid-1970s I studied this "moving mirror" effect in great detail with my collaborator Stephen Fulling. We restricted our work to a simple one-dimensional model, but similar results are likely to apply in real three-dimensional space too. We found that if a mirror moves with increasing acceleration, a flux of negative energy emanates from its surface and flows out into the space ahead of the mir-



3. How to Build a Time Mach

## How to Build a Time Machine by Paul Davies, PhD - 2001

# International Workshop on Dynamical Casimir Effect 6-8 June 2011 Caffè Pedrocchi Image: Cornell University Library ArXiv.org > quant-ph > arXiv:1105.4714 Search or Observation of the Dynamical Casimir Effect in a

## Superconducting Circuit

C.M. Wilson, G. Johansson, A. Pourkabirian, J.R. Johansson, T. Duty, F. Nori, P. Delsing

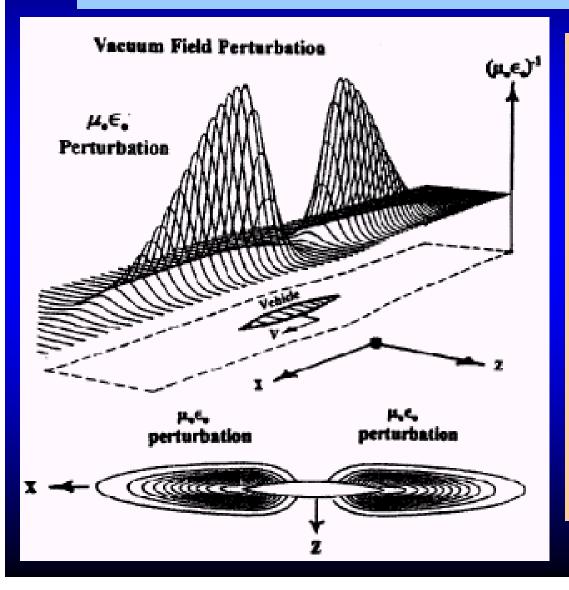
(Submitted on 24 May 2011)

One of the most surprising predictions of modern quantum theory is that the vacuum of space is not empty. In fact, quantum theory predicts that it teems with virtual particles flitting in and out of existence. While initially a curiosity, it was quickly realized that these vacuum fluctuations had measurable consequences, for instance producing the Lamb shift of atomic spectra and modifying the magnetic moment for the electron. This type of renormalization due to vacuum fluctuations is now central to our understanding of nature. However, these effects provide indirect evidence for the existence of vacuum fluctuations. From early on, it was discussed if it might instead be possible to more directly observe the virtual particles that compose the quantum vacuum. 40 years ago, Moore suggested that a mirror undergoing relativistic motion could convert virtual photons into directly observable real photons. This effect was later named the dynamical Casimir effect (DCE). Using a superconducting circuit, we have observed the DCE for the first time. The circuit consists of a coplanar transmission line with an electrical length that can be changed at a few percent of the speed of light. The length is changed by modulating the inductance of a superconducting quantum interference device (SQUID) at high frequencies (~11 GHz). In addition to observing the creation of real photons, we observe two-mode squeezing of the emitted radiation, which is a signature of the quantum character of the generation process.

"Moving Mirrors Generate Photons from the Vacuum"

Nature, 6/3/11 online

# **Superluminal Saucer**



- Fronig solved Euler eq of fluid dynamics with vacuum perturbed by toroidal EM field
- ZPF loses its drag when T → 0 K
- Only directional accelerating recoil left
- Transfers energy from ZPF to vehicle

# For further technical information

## Table 3... Vacuum Engineer's Toolkit

Tool	Effect	Page	
Aperiodic quantum stochastic resonance (AQSR)	Generates electrical current from <u>contheconal</u> and thermal fluctuations	65-67	
Brownian motors	Blases Brownian motion of particles, often in an anisotropic medium		
Çaşimir engine	Electrical current generator designed by Pinto using a microcardilever. microlaser and Casimir force		
Casimic force	Attractive (or repulsive) force from two parallel plates about 1 micron apart		
Cavity QED	Alters atomic transition probability in small cavities	20	
Dark energy	ZPE that powers galactic acceleration, also measured in the lab		
Dielectric constant of surface	Affects Casimir force when illuminated by light		
Einstein-Hopt drag	Retarding force from vacuum due to motion F= -Ry		
Electromagnetic ZPE Converter	Dual sphere device using beat frequencies to downshift Z PE		
Femtosobere	Particle size where QM and Rutherford scattering applies		
Fluctuation-Dissipation theorem	Source-dissipation-fuctuation; Predicts and explains fundamental nature of ZPF	11, 57	
Fluctuation-driven transport	mechanism that can convert chemical energy into motion of particles and macromolecules	58	
Focusing vacuum fluctuations	Increases energy density of ZPE and attractive Casimir force	48-49	
Fokker-Planck equation	Can apply to terrotud system to predict noise-driven motion of particles	64	
Langevin's equation	Like F-D theorem, helps design Brownian motors	58, 63	
Lasing without Inversion (LWI)	LWI) Sustained laser output from microlases, which have long radiation cavity lifetime		
Magnetic field	Inhibits Casimir force	20	
Microbox geometry	Varies Casimir force from + attractive to - repulsive	50-51 44, 49	
Microcardilever.	Flexible membrane that displays Casimir deflection		
Migrolaser.	Solid state laser 2 microns across		
Nonresonant Ion trap	Electried cavity that concentrates charged particles	44	
Photo-Carnot engine	Allows extraction of work from a single thermal reservoir where radiation is the working fluid	56	
Quantum coherence	Changes relative strengths of emission and absorption in a cavity	57	
Quantum ratchet	Repeating cells that move particles with fluctuation-driven transport		
Recoll	Increases the energy of a dipole, associated with photon absorption and emission, both of which are in the same direction	55	
Rectifying thermal noise	Generates electrical current with asymmetric external potential	64	
Resonance	Can trap scattering particles into bound state	42	
Resonant fluorescence	Dramatically increases absorption when incident energy equals binding energy of target	41	
Sonoluminescence	ZPE caused light emission due to extreme temperature and pressure	21	
Spatial squeezing of vacuum	Can double photon emission from cavity by changing dimensions abruptly	48	
Temperature	Increas e will broaden resonance peak	39	
Thermal fluctuations/noise	temperature-caused stochastic oscillations and vibrations	62-63	
Time-dependent refractive index	Causes part of ZPE to convert to real photons	53	
Translent fluctuation theorem	Nonzero probability for negative work for short periods of time	61	
Unruh-Davles Effect	Acceleration clauses ZPE to create thermal fluctuations	53	
Upscattering.	Gain of energy to incident particle up to 10 kT energy	39	
Vacuum field amplification	Increases quantum nonthermal noise with a gain medium	67	
Vacuum field perturbations	Nonabellan EM field may alter speed of lightlobject	55	
Vacuum polarization	increase in local activity in the quantum vacuum near the edge of a physical charged particle	10	

## PRACTICAL CONVERSION OF ZERO-POINT ENERGY

Feasibility Study of the Extraction of Zero-Point Energy from the Quantum Vacuum for the Performance of Useful Work

Thomas Valone, PhD, PE

Toolkit on IRI website.

# **Electrostatic Motors**

Being reprinted in a new edition by IRI

- Benjamin Franklin, inventor
- First electric motor ever
- One operated for 86 years
- Uses atmospheric electricity
- 0.1 Hp motors developed
- 10 kW to 1 MW design range
- "Underutilized technology"
- Atmospheric potential of planet: 200 gigawatts

Jefimenko, Proc. of COFE, 1999, p. 70

## ELECTROSTATIC MOTORS

NEW REVISED EDITION



THEIR HISTORY, TYPES AND PRINCIPLES OF OPERATION

## Oleg Jefimenko

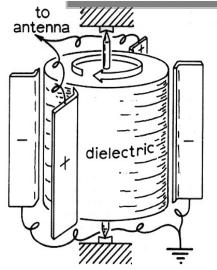


FIG. 3. Corona motor capable of operating from the atmospheric electric field. Jefimenko, Am. J. Phys., V. 39, No. 7, 1971, p. 776

## Scientific American, Oct., V. 231, No. 4, 1974, p. 126

# THE AMATEUR SCIENTIST

## Electrostatic motors are powered by the electric field of the earth

conventional energy resources? Several limitations must first be overcome. For example, a single sharp point can draw electric current from the surrounding air turns in the horizontal plane on lowfriction bearings. Each spoke of the "electric wheel," as Franklin called the machine, consists of a glass rod with a

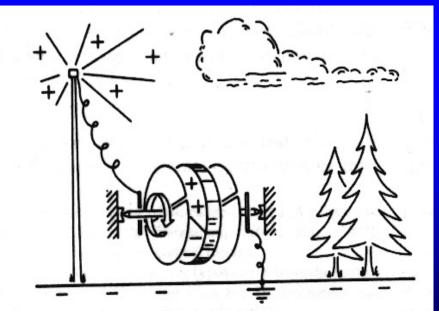


FIG. 2. Operation of the electret motor from the atmospheric electric field by means of an antenna with a radioactive collector.

- 24 foot antennas or higher
- tiny amount of polonium on tip of antenna boosts current
- electrets improve output
- corona motor is easy to build and "they can run forever"

# **Tesla's Design for Wireless Energy**

- 1905 Earth is resonant LRC circuit
- Magnifying transmitter 200 ft tall
- Wardenclyffe sphere 68 foot diameter
- Resonates with earthionosphere natural 8 Hz frequency for 95% efficiency of transmission
- Longitudinal and transverse EM waves
- see Harnessing the Wheelwork of Nature

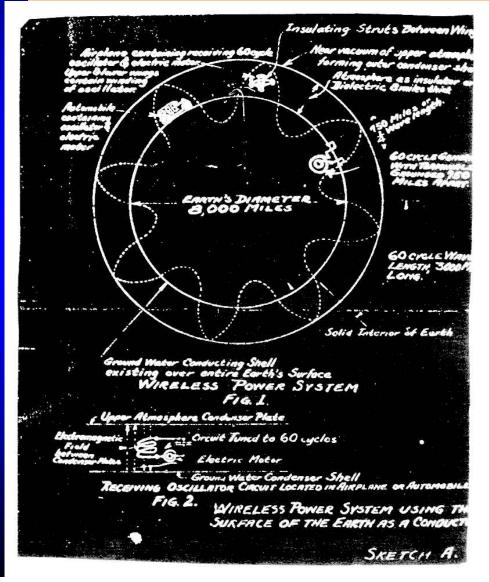


HARNESSING THE WHEELWORK OF NATURE **TESLA'S SCIENCE OF ENERGY** 

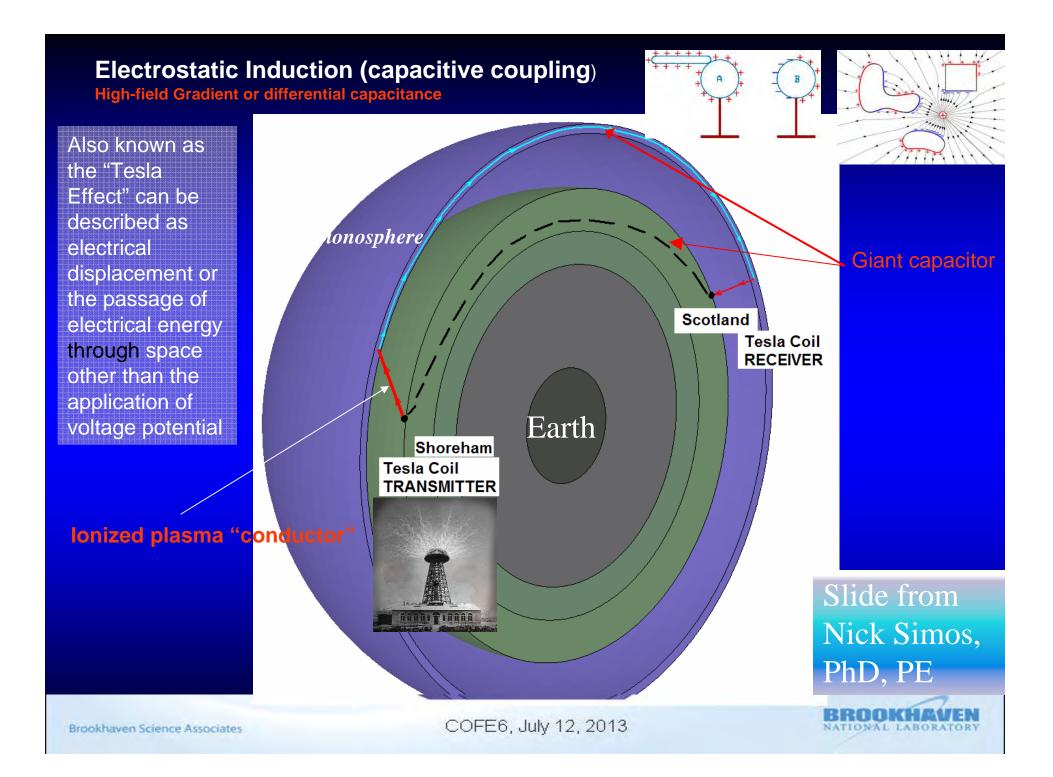
EDITED BY THOMAS VALONE, PH.O, PE

IRI - only one to celebrate Wardenclyffe Tower Centennial with a **Tesla Conference and Expo** as well as book release both in 2003

# **Tesla's Magnifying Transmitter**



- Standing wave sketch
- Lossless transmission line
- 95% efficiency that is opposite to transmission circuit
- Earth's magnetic flux can be "strummed" or resonantly vibrated
- Increase at nodes-antinodes
- Air offers conductive path
- Pulsed ionizations of the air



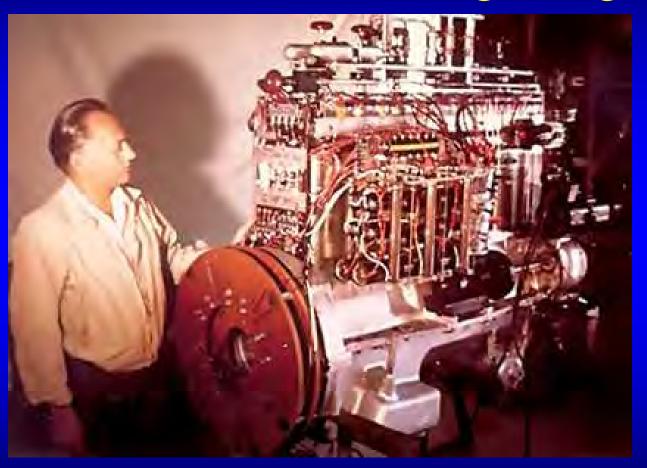
# "The car of the future will run on metal."

- Dave Beach & Solomon Labinov researchers at Oak Ridge National Laboratory in Tennessee
- New Scientist, Issue 2522, 22 October 2005
- metal powder such as iron, aluminum or boron
- already used in rocket-powered torpedoes

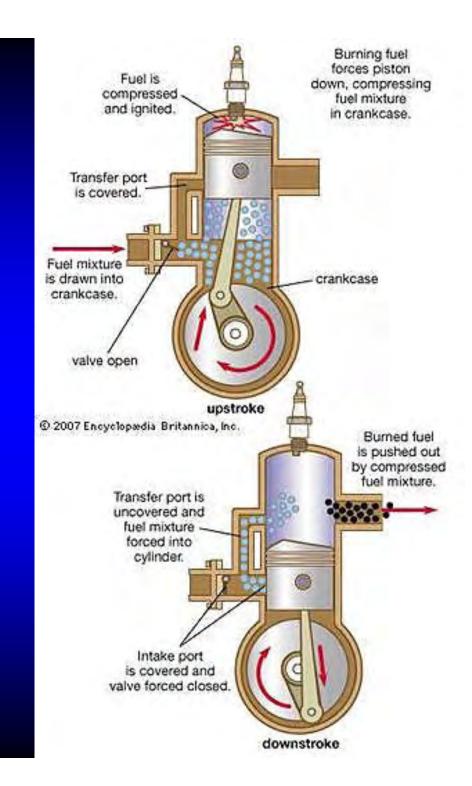
 nanosized particles (50 nm) temperature peaks at around 800 °C - hot enough to do useful work – not to hot to stick to surfaces

volume is <u>half size</u> of 50 litre tank for same range

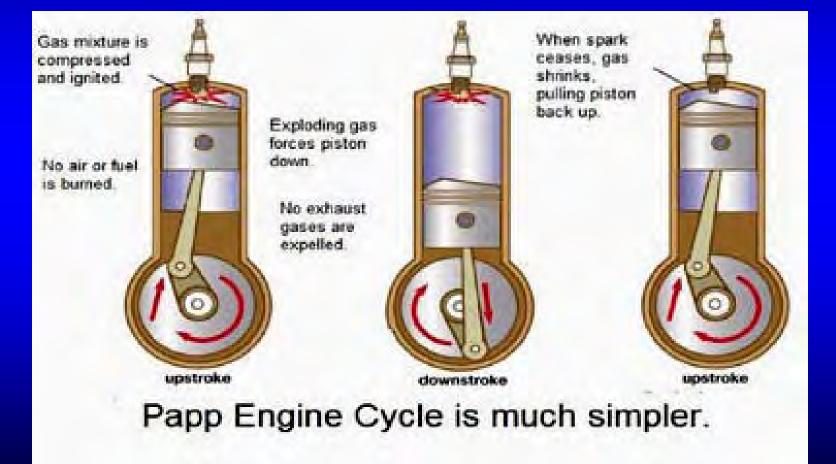
# Josef Papp Pulsed Plasma Discharge Engine



Hungarian immigrant worked on "Fastest Submarine" in 1960s for Canadian government. Built this 100 hp engine fueled with noble gases. Compare Papp to a Typical Two-Stroke Engine



# Typical Two-Stroke Internal Combustion Engine

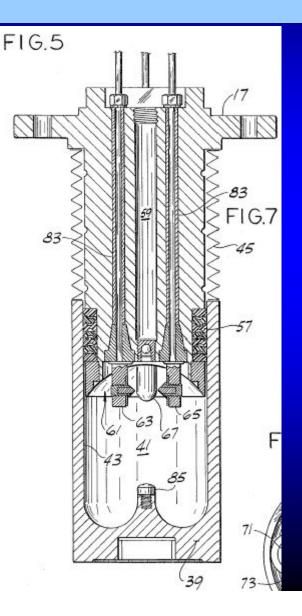


# Papp Engine Patent 4,428,193

Patented in 1984, Papp specifies a Teflon coated cylinder seals and two electrodes (63, 65) for ignition and two electrodes (67, 69) for cathode and anode in a <u>quadrant star</u> within each of two cylinders.

An interesting point is the addition of four grams of <u>thorium-232</u> (alpha emitter) to the cathode container, while the anode container has two grams of rubidium-37 and three grams of phosphorus-15 in mineral oil for ionizing or exciting the gases.

Papp 3,680,431 explains his desire for electron or alpha emitters to trigger the reactions with "argon, krypton, neon, xenon and their isotopes."



Papp Cylinder Built in 2012

Designed by Russ Gries to use a mix of five noble gases with a 40 kV spark

Credit to Bob Rohner for Advice and Online Videos



# Heart of Papp Engine



Four terminal spark gap by RWG with a "three-discharge sequence" using two ¼" titanium rods and two ¼" tungsten thoriated electrodes

# Papp Circuit Operation

Two cylinders act as "capacitors" to store and exchange high current and high voltage to the mated cylinder "in a crisscross mode with a switching circuit".

• It appears to be a **positive feedback circuit**, each cylinder feeding the other's explosive process, thus causing an excess charge accumulation cascade which has caused two explosions of one of the cylinders, such as when **Dr. Richard Feynman** insisted on pulling the electrical plug on an operating Papp engine, killing his own assistant in 1968.

• Therefore, the circuit has to be moderated using a "charge dissipation mediation circuit" that conditions and moderates the capacitive pulse according to RWG.

# **Papp Unique Components**



"Buckets" supposed to hold radioactive elements but RF 27.1 MHz is a substitute for their ionizing effect. RWG only has 2% thoriated electrodes.



Specially designed 3.25" OD piston

# **Critical Mixture of Noble Gases**

One fuel mixture known in the art is a combination by volume of 35.6% helium, 26.2% neon, 16.9% argon, 12.7% krypton, 8.5% xenon

## **Disclosed online by RWG**

Component	Nominal	Actual	Accuracy	Method
Xenon	8.50%	8.50%	+/- 2% rel	Gravimetric
Neon	26.3%	26.3%	+/- 2% rel	Gravimetric
Krypton	12.5%	12.5%	+/- 2% rel	Gravimetric
Argon	16.9%	16.9%	+/- 2% rel	Gravimetric
Helium	Balance	Balance		

# Video of RWG Ignition Circuit



## http://preview.tinyurl.com/RWGresearch

Four minute video shows a superior ignition performance

### **Rohner-Roberts Video** (Bob Rohner worked for Josef Papp)



Flash can be seen at bottom



Original Papp engine above

http://www.youtube.com/watch?feature=player\_embedded&v=\_zWJNyoFgJM

Or use → http://preview.tinyurl.com/<u>Rohner-Roberts</u>

# Poseidon God of the Ocean

Ruler of the Ocean

- Watery, massive, feminine in nature
- Energy Examples: Hydroelectrics, Cold Fusion, Tidal Power

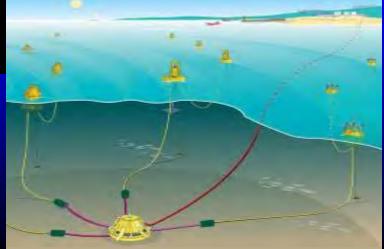




## orld's Largest Tidal Wave Generator

• (PhysOrg.com) – A new wave energy generation test site is the first offshore wave energy site in the UK, and will allow four wave energy generator systems, with a total capacity of 20 MW.

Ocean Power Technologies Limited (OPT), which will connect its PowerBuoy wave energy converter to one of the tail berths early next year.



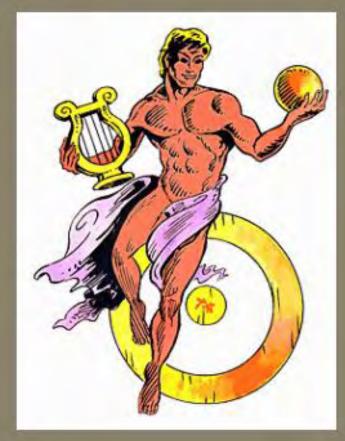
### **COLD FUSION – ENERGY FROM WATER**

May be nearing the commercialization phase finally



# Apollo The Sun God

- Cruises the Heavens in his chariot to bring light to Earth.
- He is Fiery, masculine and self-propelled.
- Energy Examples: Solar, Photovoltaics, Nuclear



# Power Africa Project

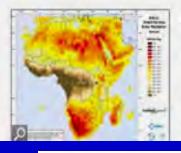
# Night Lights Visible from Space Show a Continent of Energy Poverty on Earth

## **IRI Africa Homes Light Project**

Where's the sun gone in Obama's US\$7 bi Power Africa project?



Is Obama's US7 billion plan for powering missing a trick by overlooking solar. Image: Nathalie Bertrams



President Barack Obama's US\$7 billion initiative to bring power to the African people was launched in celebratory mood at the end of last month.

Power Africa aims to add more than 10.000MW of cleaner, more efficient electricity generation capacity over five years. At least 20 million more households and commercial entities will be electrified from the grid, distributed generation or mini-grids. Ethiopia, Ghana, Kenya, Liberia, Nigeria and Tanzania are the first to participate in the initiative, which has already levered USS9 billion from private industry.

The roll call of companies already recruited to the cause is impressive. General Electric has committed to help bring online 5MW of "new,

- Supply LED Solar-NiCd **modules** for lighting homes
- **Recruit** African distribution organization
- Aim for 10,000 homes per month
- Use donated money to accomplish project
- Goal: Jumpstart evening and nightime studying and reading

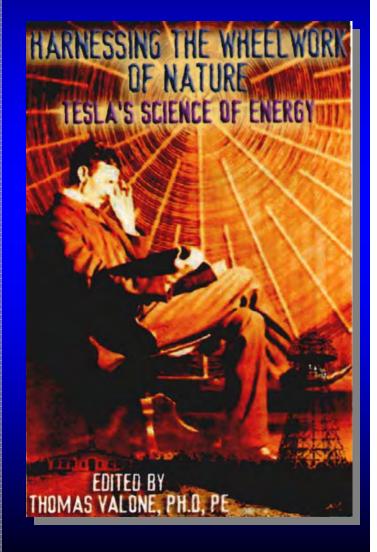


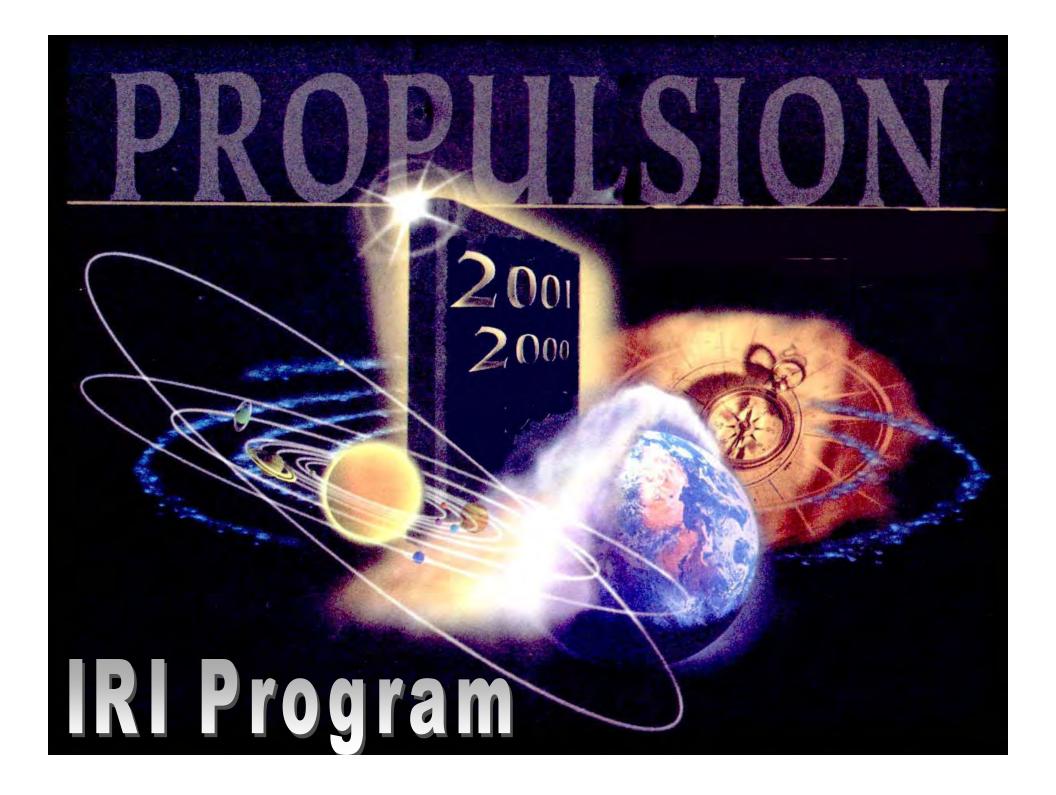


X 3 for 8 hours of light

# Quote from Nikola Tesla

"Throughout space there is energy. Is this energy static or kinetic? If static our hopes are in vain; if kinetic – and we know it is, for certain – then it is a mere question of time when men will succeed in attaching their machinery to the very wheelwork of Nature. Many generations may come to pass, but in time our machinery will be driven by a power obtainable at any point in the Universe."





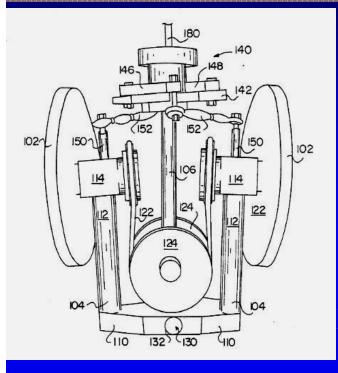
# THOMAS VALONE, PH.D. PRESIDENT, INTEGRITY RESEARCH INSTITUTE

PROPULSION

OGRAM

History Channel, "Ancient Aliens," 2011

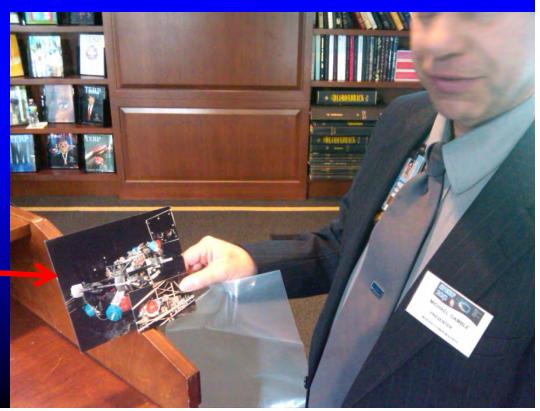
## **IRI Inertial Propulsion Research**



A purely mechanical process of using rotating masses, such as "**scissoring gyroscopes**" to cancel or rectify centrifugal force and produce thrust in ONE DIRECTION, e.g., Kidd #5,024,112

Kidd patent

Engineer **Mike Gamble** discloses in 2012 that Boeing has been using inertial propulsion (*scissoring gyros*) on its satellites "for years" at **COFE5** sponsored by **IRI** 



### But the future use of zero point energy will be <u>Maximum Propulsion with Inertia-Free Convenience</u>



http://video.google.com/videoplay?docid=6707218432575087751#

## Black Projects Have Inertial Shielding

#### As seen on History Channel, 2008

Dr. Bruce Cornet, geologist led group of eye witnesses 1995 Photo credit: W. Marc

Whitford

#### enables fast acceleration

- Pine Bush near Stewart AFB
- Delta-shaped aircraft

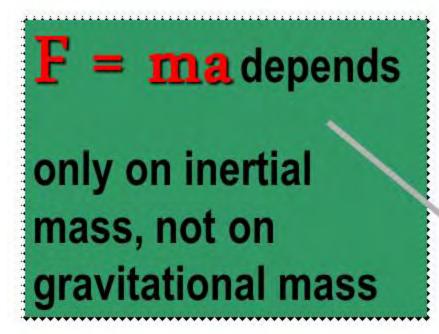


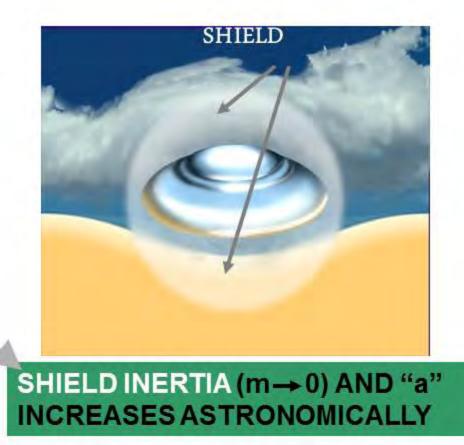
- Two mobile white headlights
- Steady red, green lights and blinking yellow lights on tips of craft
- No visible contrail
- Abrupt change of direction
- Ability to hover motionless
- Inverse Doppler effect
- Audible but low engine noise

## **BENEFITS OF INERTIAL SHIELDING**

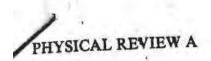
## Force = (inertial mass) • acceleration

A discovery worthy of research and development





"Inertia as a zero-point Lorentz field" Haisch, Phys. Rev. A, V.49, N.2, 1994



#### VOLUME 49, NUMBER 2

FEBRUARY 1994

constitutive primary

#### Inertia as a zero-point-field Lorentz force

Bernhard Haisch

Lockheed Palo Alto Research Laboratory, Division 91-30, Building 252, 3251 Hanover Street, Palo Alto, California 94304 and Max-Planck-Institut für Extraterrestrische Physik, D-85740 Garching, Germany

> Alfonso Rueda Department of Electrical Engineering, California State University, Long Beach, California 90840

> > H. E. Puthoff

Institute for Advanced Studies at Austin, 4030 Braker Lane West, Suite 300, Austin, Texas 78759 (Received 8 February 1993)

"The ZPF will exert a magnetic Lorentz force..."

component of the Lorentz force) arises in any accelerated reference frame from the interaction

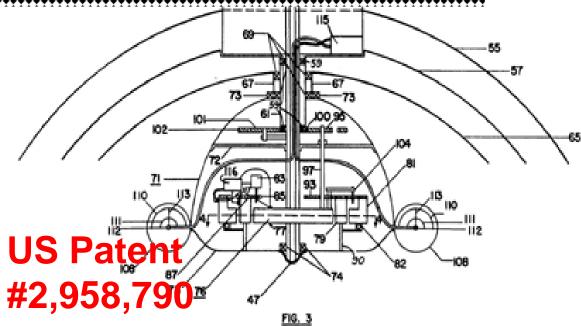
Resistance to acceleration results from **Davies-Unruh effect (acceleration-caused** flux of radiation scattering)

 $F = (e/c) v(t) \times B_{ZP}(0,t) = - [\Gamma \hbar \omega^2 / 2\pi c^2]a^2$ 

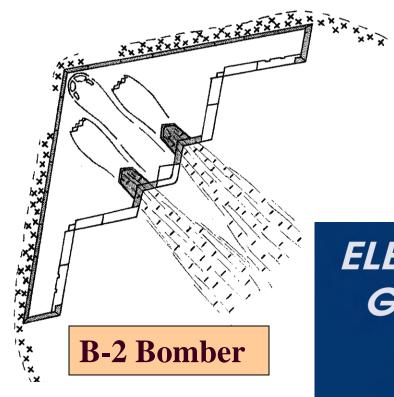
Analysis of Electrogravitics and Electrokinetics for Aviation and Space Travel Thomas Valone, PhD, PE

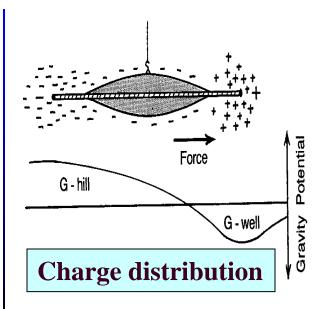
> STAIF, Albuquerque, NM www.unm.edu/~isnps/staif/2006 February 16, 2006 and AIAA, Joint Propulsion Conference, Hartford CT July 23, 2008

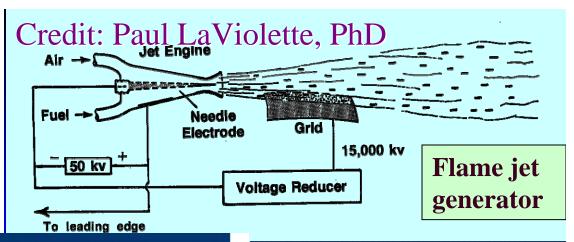
Brown & Bahnson Lab studied electrogravitics designs and received over a dozen patents







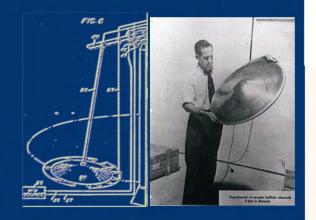




### ELECTRO GRAVITICS SYSTEMS

Volume I

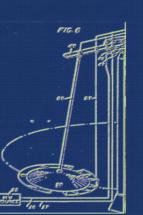
Thomas Valone, PhD



# ELECTRO

Validating Reports on a New Propulsion Methodology

Thomas Valone, PhD





#### **Current Research**

## **Second Volume**

 AFL report Honda Lab report T.T.Brown biography McCandlish Norton **AFB** hovercraft report Valone interpretation of electrokinetic equation and its force predictions

 Recent related patents

# ELECTRO

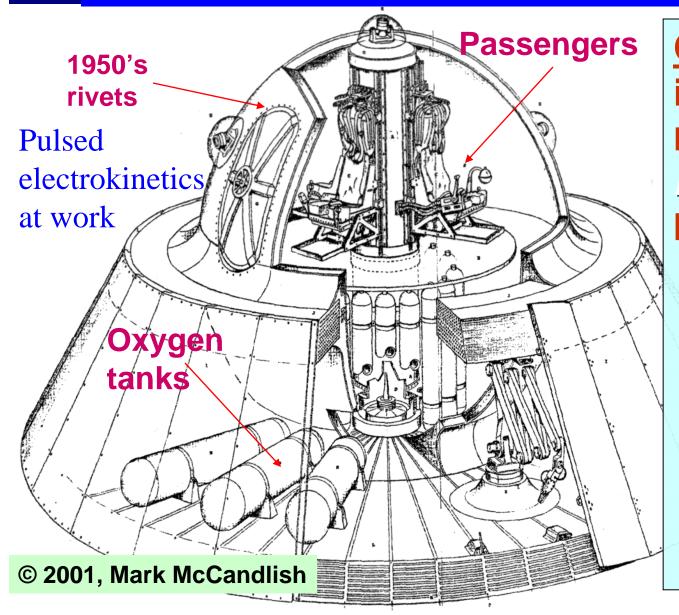
Validating Reports on a New Propulsion Methodology

#### Thomas Valone, PhD

Fra.c EF



## **Electrogravitics HoverCraft Demo** Norton Air Force Base 1988

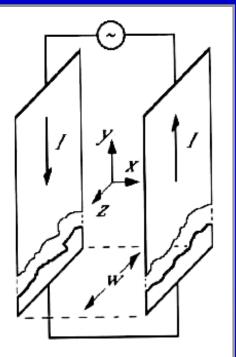


**Complete story** in Disclosure by **Dr. Steven Greer &** Electrogravitics II by Tom Valone **Investigated by Dr. Hal Puthoff**, former CIA contractor

> Seen by Brad Sorenson and a Congressman

## **Jefimenko's Electrokinetic Equation**

### Professor, W. Virginia University



$$\mathbf{E}_{k} = -\mu_{o} \frac{\partial I}{\partial t} \frac{x}{w} \mathbf{j}$$

Time derivative of current

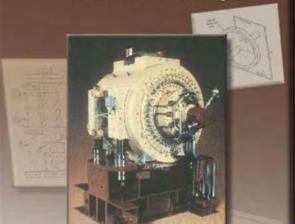
• Fast pulsed current with short rise time will produce the largest force

Causality, Electromagnetic Induction and Gravitation, Jefimenko, 2000

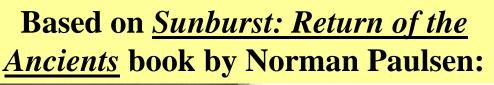
#### Homopolar Generators are "a subject worthy of further research"

#### Hamaaala Handbaa

A Definitive Guide to Faraday Disk and N-Machine Technologies



Thomas F. Valone, PhD





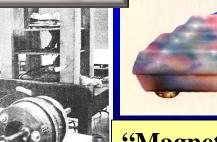
A ship over Giant Rock.



And the deputy sheriff who took the picture

**Giant Rock**, Calif. saucer, photo & deputy sheriff who took the photo

"Magnets around the edge of a rotating disk"



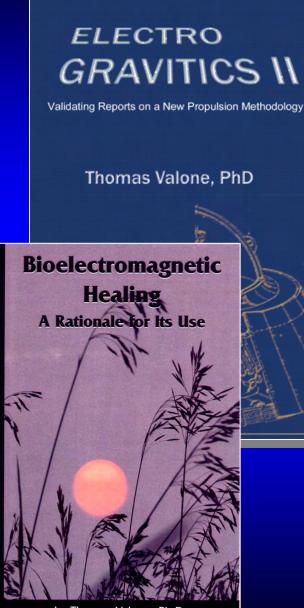


**EIN GRUNDLAGENWERK DER FREIEN ENERGIE:** FARADAY-SCHEIBE UND N-TECHNOLOGIEN

THOMAS V.

DAS UNIPOLAR

"generator would be self-perpetuating"

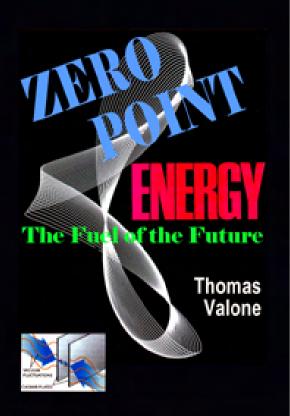


by Thomas Valone, Ph.D.



A Definitive Guide to Faraday Disk and N-Machine Technologies





Books that Contain Most of this Slideshow

"Future energy can do our work without working our undoing"

Join our IRI conversation at Futurenergy.org to re-empower the world