

REPUBLIC

MAGAZINE

Number 17

POLITICS WITH AN EDGE

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Boynton Beach, FL 33425
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fax: 714.455.2091
www.republicmagazine.com

PUBLISHER
George Shepherd

MANAGING EDITOR
Gary Franchi

COPY EDITOR
Jeff Knebel

CONTRIBUTING WRITERS
**Michael Badnarik • Allison Bricker
Melissa Cody • John Devoe
Bob Erickson • Thomas James
Michael LeMieux • Joseph Mael
Sadie Norlin • Michael Nystrom
Asheweth Palise • Brian Prater
Clint Richardson • Robert Welzel**

DESIGN & PRODUCTION
Ed Rother

ADVERTISING
Earle Belle
Toll Free: 866.437.6570
email: ads@republicmagazine.com

Subscriptions/Multiple Copy Orders
www.republicmagazine.com
or call: 866.437.6570

Mail-In Orders
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MICHAEL BADNARIK

Constitutional Discipline

Before I begin, I would like to congratulate the staff, supporters, and readers, of REPUBLIC MAGAZINE for the incredible impact they have had on our society. Someone approached me recently and said, "Hey! You're the guy who writes for Republic Magazine!". I assured him that I was merely one of several writers and activists who dedicate their time and talent to what I consider the modern version of Thomas Paine's "Common Sense". Before we can change the way our government operates, we have to alter the opinions of our fellow Americans, by appealing to their common sense and rational self-interest. Distributing thousands of copies of this magazine is successfully doing exactly that. If you are reading these words, you will be thrilled to learn that you are far from being alone. If you find yourself wishing you could do more to fight for Liberty, I suggest handing out several hundred copies of this magazine to people who are still unaware of the tyranny we face.

This month's theme is alternative energy. My resume' documents twelve years spent working in the nuclear industry; however, I won't be extolling the virtues of pressurized water reactors. (Unless the editors grant me an additional 2000 words in a future issue.) For the moment, I will limit my comments to what the Constitution conspicuously doesn't say about alternative energy.

Perhaps the two most misunderstood and congressionally-abused phrases in the Constitution are the "general welfare" (1.8.1) and the "interstate commerce" (1.8.3) clauses. The former is miss-used to justify entitlement clauses for individuals, while the latter is miss-used to justify welfare at the corporate level. Both are huge drains on our economy, and both are repugnant to the Constitution.

We pay lip service to ideas like "free market economy" and "level playing field," yet it is apparent to a growing percentage of the population that those concepts are nothing more than mere slogans. America (and the world) is watching in shock and awe as our politicians pretend to justify last year's trillion dollar bailout, this year's double-trillion dollar stimulus package, and next year's triple-trillion dollar budget, as if anything with twelve zeros to the left of the decimal point can be called a budget.

The current economic train-wreck did not explode onto the scene overnight. For those who survive the financial meltdown it would be prudent to understand the genesis of the monster now before us. Government invariably uses a carrot and a stick to tilt the "level playing field" in favor of one or more players of the game.

The carrot strategy provides subsidies to selected players, allowing them to offer their goods or services at lower prices, thus making competition nearly impossible. Amtrak would have disappeared long ago without a constant influx of government money. American gasoline prices are significantly lower than other countries because our oil industries are subsidized by a Congress whose campaigns have been greased by Chevron and Exxon since long before any of today's readers were born. Immigrant workers can survive working for a few dollars an hour only because their housing, food, medical care, and children's education are subsidized by a government that is extremely generous with your money.

The stick in this analogy is stringent regulation. Laws that "protect society" are dreamed up by large institutions; they know that smaller competitors cannot afford expensive compliance standards—like forcing small businesses to install handicap-friendly modifications—which are often expensive and, occasionally, ridiculous. One California restaurant had a wheelchair ramp leading down to the beach. Why? How far is someone in a wheelchair going to travel in the sand? What's next, high-wire in triplicate for people with crutches?

During my presidential campaign I criticized the government's long-term subsidies for the oil and automotive industries. Someone asked me which energy alternatives the government should be subsidizing. "None!" I shouted to someone who clearly shared the government's definition of "free market." In the tug-of-war for your consumer dollars the Constitution forbids the government from taking sides.

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Volume I

Roland Morin

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-Thomas Jefferson

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SPOTLIGHT ON SOLAR POWER

..... BY SADIE NORLIN

Our planet is quickly approaching the end of an era. The human race is beginning to realize that if they/we continue following the same road we've sauntered down for decades, our society will crumble.

The earth can't support our hedonistic lifestyles any longer and many people have begun taking steps to change the way we create the energy needed to maintain such behavior.

The sun emits enough energy daily to completely fuel the entire world. This is about one kilowatt-hour per hour for every square meter of the earth's surface exposed to the sun.* Depending on what area of the world you are in, this measurement may differ slightly, but the fact remains that our sun can fuel the world, and has for many years.

Human beings have been harnessing solar energy since ancient times. For example, ancient Egyptian Pharaohs would use solar energy to heat their living quarters; the sun would heat black pools of water during the day, which would then drain through a series of interior pipes to areas not exposed to the sun.

Ancient Greeks also used solar energy for heating purposes. They constructed buildings with large south-facing windows set to a specific orientation with the sun. This would allow sunlight to penetrate throughout the structure, heating its entirety. Since the time of ancient civilizations solar energy has been used steadily throughout history. In 1874, a French engineer named August Mouchot used a boiler to concentrate solar heat, transforming water into steam that would power an engine to pump water.

As mentioned above, we have known many years that the sun possesses magnificent energy generating abilities. Most are not aware, for example, that the first solar cell (photovoltaic cell) was created by Charles Fritts in the 1880s. Known as the "selenium cell," it was incredibly inefficient by today's standards. Then there was the silicon solar cell, created by Calvin Fuller and Daryl Chapin in 1954; this cell was slightly more efficient but nowhere near what was to come. But cost was a problem; at about \$286 per watt, use was

limited throughout the 1960s. In the 70s prices dropped and solar cells were used more prominently. The 1970's oil crisis set the stage for further use of solar cells, and now at a lower price.

When oil prices began to fall in the early 80s, funding for photovoltaic cells was greatly reduced, which limited the application of solar energy. Photovoltaic cells currently used in homes and businesses throughout the world are made of semiconductor materials like silicon. A description of how the cells work per Gil Knier, taken from a Nasa web site is as follows: "... a thin semiconductor of wafer is specially treated to form an electric field, positive on one side and negative on the other. When light energy strikes the solar cell, electrons are knocked loose from atoms in the semiconductor material. If electrical conductors are attached to the positive and negative sides, forming an electrical circuit, the electrons can be captured in the form of an electric current -- that is, electricity.

This electricity can then be used as power.† Several of these cells are connected to one another and mounted in a structure, creating a photovoltaic module. Electricity is produced at a specific voltage through these modules. The amount of electricity produced is completely dependent on the amount of light hitting the module.

Today, solar power is not being used to its potential. We currently have the technology to completely replace fossil fuels with solar power. The sun provides natural heat, food for plants, and vitamins for our skin. Extreme pressure needs to be put on those in power to establish a more prominent solar energy system, so that we, as a human race, will persist while keeping our planet healthy. Everything in every ecosystem has a purpose; we must take full advantage of what is provided to us via that gaseous star we call the sun.

*(<http://www.americanenergyindependence.com/solarenergy.aspx>)

†(<http://science.nasa.gov/headlines/y2002/solarcells.htm>)



The United States' dependence on Middle East oil has substantial political, economic, and military implications. Three years ago, the Heritage Foundation published a scholarly article outlining the issues, and today the circumstances remain nearly

identical (Cohen, 2006). It seems to be in our nature to accurately identify problems; and yet, like addicts, we are unable to stop our destructive behaviors.

Curing the Oil Addiction

In 2006, Middle East oil accounted for 17% of our oil imports. Today, that number has jumped

to nearly 20%. While the war in Iraq has raised awareness regarding the Middle East, most Americans defer lofty decisions about oil dependency to politicians and experts. If we reflect, however, upon the impact that oil, petroleum products, and petrochemicals have on our daily lives we might determine that curing our oil addiction ranks a little higher on our to-do-list than watching the latest reality show on television.

Over 4,000 common products are made from petrochemicals. Many lubricants and waxes are made of petroleum and almost all of our vehicles fuels are derived from crude oil. It is hard to imagine even a single day without products made available to us by crude oil. As ubiquitous as oil products are to modern life, Americans are almost completely disengaged regarding decisions about this important commodity.

Americans haven't always been so disinterested in commodities. The Boston Tea Party wasn't just a protest about taxation without representation; it was also about people reacting to the supply of a commodity that was important to their daily lives. The Constitution guarantees that "the powers not delegated to the United States by the Constitution, nor prohibited by it to the States, are reserved to the States respectively, or to the people." Abraham Lincoln understood the power vested in the people when he stated that a "government of the people, by the people, for the people, shall not perish from the earth." Perhaps the time has come for common Americans to become more engaged in controlling our national addiction to oil.

by Robert Welzel



Participation in this process requires both commitment and knowledge. It is important for us to gain some understanding of potential solutions before accepting those supported by our political leaders. We import 65% of our crude oil; only about 20% comes from the embattled Middle East (see sidebar). More importantly, two-thirds of the world's oil reserves are located in the Middle East. So, as global demand for crude oil grows the Middle East becomes increasingly important.

Equally important to the discussion, are the ways oil is used in everyday life; in March 2009, various fuel oils represented about 85 percent of the total US Consumption. The remaining 15 percent (2.8 million barrels), was used for those goods and services that we find so important to modern life. A great deal of attention is paid to alternative fuels and alternative energy sources, and rightfully so. Yet we must recognize that although costly or difficult fuel alternatives do exist, this is not the case for many products derived from the various petrochemicals.

This distinction is important, because many opponents to domestic drilling and exploration programs measure the results relative to our total oil consumption. For example, Senator Ted Kennedy's website noted, with respect to the Arctic National Wildlife Refuge, "Energy Department forecasts predict that, if retrieved all at once, the refuge would produce, at most, six months worth of American oil, and would not start flowing until 2013. This is a fruitless effort, that would convert this spectacular ecosystem into nothing more than an oilfield, and damage the Arctic National Wildlife Refuge for future generations" (Protecting Our Oceans and Land). Likewise, the 3.7 billion barrels of oil discovered in the Bakken Formation under North Dakota and Montana is argued to have only a "minor effect on US production or imports."

These minor effects, however, are substantially extended if measured only against the nation's petrochemical needs. We must presume that global demand for oil will eventually exceed any reasonably available supply. Therefore, we can infer that some alternative for transportation fuels will necessarily be developed. We cannot assume that the same is true for the products uniquely dependent upon petroleum or petrochemicals. This is precisely why it is important for us to develop, and then protect, some minimum and partially sustainable crude oil resources.

Oil field development takes time. The US Geologic Survey has estimated that 25% of the world's undiscovered oil reserves are in the Arctic. Arctic Oil & Gas Corporation has already staked a claim on the estimated 400 billion barrels of oil. Yet companies in the US have known for years about oil on the North Slope of Alaska and other off-shore locations; and we find any efforts to produce oil in those locations blocked by political, environmental and legal barriers. Even if all barriers to construction in ANWR were lifted, the earliest we could expect output would be 2018.

Because of this inherent lag-time from project conception to production we must transition the issue from a national debate to a plan of action. Since most of our national goals are directly or indirectly dependent upon abundant energy, this transition must become a national priority.

So, what course of action do we take? First and foremost, rational Americans must stop demonizing the oil industry, and acknowledge the important part petroleum products play in our lives. Next, we should distinguish between petroleum uses, which have alternatives available, and those that do not. It is critical to our future planning to know what the real requirements for fossil fuels are.

Once we have identified those products without viable alternatives available we must develop a meaningful national strategy. The Energy Departments should estimate the total "no alternative" petroleum requirements. From this estimate we should seek and clear all barriers to development of domestic supplies.

Incentives should be offered to hasten the transition to alternative fuel sources for both the transportation and power generation industries. Any reduction in the real requirements in those industries provides additional time for industries having no petroleum alternatives. In addition to incentives, concerted research efforts must be made to find potential alternatives to petrochemicals in other industries.

Finally, we must demand genuine leadership from Washington. We can no longer afford for our national leaders to moderate the debate. They must put aside partisanship and the polls and do what is right for our country. Some of these problems seem so grand that we are compelled to analyze every detail repeatedly to prevent us from making any mistakes. Yes, resources are limited and certainly the risks are high; yet the risk of inaction is much greater. In the battle to find a cure for our addiction to oil we would do well to remember General Douglas MacArthur's words to Colonel George Jones in 1945, "There is no substitute for victory."

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STAN MEYERS



Energy, Freedom, & Murder?

by Bob Erickson

During the 1980's an inventor named Stanley Meyer of Grove City, Ohio designed one of the most significant inventions of the last century - a water fuel cell that produced hydrogen gas on demand. The cell could be attached to a typical gasoline-powered car, thus allowing the engine to run only on water.

Producing hydrogen gas from water is nothing new. A process called Electrolysis has been used for over a century, and the process burns nearly as much expensive energy to create the hydrogen as the energy value of the hydrogen produced. Stan Meyers's new system to generate hydrogen gas involved using high-voltage, high-frequency electrical resonance to split water molecules into their basic elements of hydrogen and oxygen. In comparison to the traditional electrolysis method, Meyers's method, sometimes referred to as "Super-Efficient Electrolysis", used only a small fraction of energy to produce the same amount of hydrogen.

The Stanley Meyers story was showcased in a 1995 documentary film titled, "Equinox: It Runs on Water," which aired in the United Kingdom. Part of the film shows Meyers next to his first and only prototype, a dune buggy with a modified Volkswagen engine. The film mentions Meyers' development of a new type of "water splitting" spark plug that could crack the water molecules into hydrogen gas and oxygen from right inside the existing internal combustion engine. This meant the hydrogen gas would be created on-demand, eliminating need or concern for driving around with a potentially explosive hydrogen gas tank onboard your car. To top it off, the only thing coming out of the exhaust pipe of Stanley Meyers's water-powered car was pure water vapor, thus his invention would greatly assist in solving the pollution and smog problems that exist in many metropolitan centers around the world.

Okay... so why aren't we clearing the polluted atmosphere and filling up our gas tanks from the garden hose today? The answer to that question

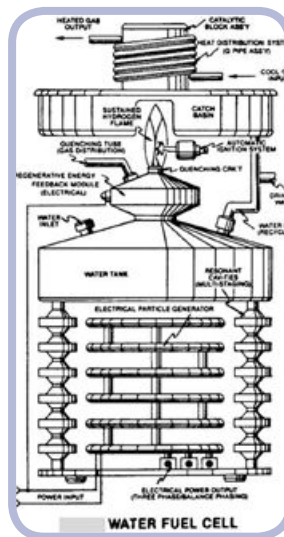
falls into the troubling and fascinating realm of conspiracies involving government, military, and big energy corporations, suppressing the public knowledge of these world changing technologies.

Stanley Meyers's Super-Efficient Electrolysis and many other very promising free-energy technologies are now the focus of a grassroots free-energy movement to bring these new technologies into widespread use, and to do so without the funding, control, and restrictions of government and big corporate interests.

Sources report that Stan was offered enormous sums of money to sell out and shelve his technology, which he refused. Stan wanted the technology for the people. In March of 1988, Stan Meyers and his twin brother Steve were having dinner with unnamed officials from a government. During the dinner Stan stood up clutched his throat and declared that he had been poisoned. Then Stan died in that restaurant parking lot, not far from his hometown of Grove City, Ohio.

An organization named The Orion Project has several inventors who worked with Stanley Meyers on the development of the prototype of Stanley Meyers's car. They are currently in negotiations to acquire the car from Stanley Meyers's family.

The commercial development of the Stanley Meyers hydrogen on-demand technologies could solve many of the worlds' energy and environmental problems.



For further exploration of Stanley Meyers and his work, please visit the following websites:

- *Equinox: It Runs on Water:*
<http://video.google.com/videoplay?docid=-3333992194168790800>
- *The Orion Project:*

http://www.theorionproject.org/en/stan_meyers_visit_2008.html

• *Pure Energy Systems Wiki:* http://peswiki.com/index.php/Directory:Stanley_Meyers

• *WaterPoweredCar.com:* <http://waterpoweredcar.com/stan.html>

Renewable vs. Peak Oil

BY ROBERT WELZEL

Our lives depend on petroleum products. Besides the gas we put into our cars, petroleum and petrochemicals account for many of our modern conveniences. We might guess that lubricants, waxes, and asphalt come from petroleum. Yet, when the list is expanded to include synthetic fibers, plastics, fertilizers and medicines, we realize that life without petroleum is hard to imagine.

Petroleum's integration into our lives is exactly why "peak oil" is important. A geologist in the 1950's hypothesized that the production of scarce resources, like oil, increases to a peak and then fall off rapidly as the resource depletes. He predicted that the US would reach peak oil in the 1970's and our oil production has decreased ever since. He also predicted that global peak oil would be reached between 1995 and 2000.

Scientists were dismissive of peak oil in the 60's, when oil companies were discovering 30 to 60 billion barrels of oil per year (while people only consumed about 6 billion barrels). Yet after the US's production started declining, they dusted off the predictions and took another look. Today, the world is consuming about 30 billion barrels of oil annually, while discovering about 4 billion. If peak oil is real, the US has a critical need to develop alternatives to petroleum, particularly petrochemicals.

At the heart of the controversy is the peak oil assumption, that oil is a "finite, non-renewable resource." As early as the 18th century, some scientists theorized that oil was actually a renewable resource, formed by the decomposition of marine plankton at much lower temperatures, and much more quickly than the conventional fossil fuel theories.

More recent research supports this contention. University of Washington scientists published findings in Science Magazine in February, 2008, claiming "oil is a natural product the Earth generates constantly rather than a 'fossil fuel' derived from decaying ancient forests and dead dinosaurs." If oil is renewable, everything changes. After all, is panic appropriate if the sky isn't falling?

In the final analysis, it might not matter. Our entire way of life is dependent upon continuous growth fueled by cheap and abundant fuel. The stakes are too high to risk all of humanity on a theory that would take years or even decades to confirm. If the peak oil model is correct, modern life is not sustainable at current rates of consumption. Our demand for petroleum products is skyrocketing, and even if the renewable model is correct, it really only buys us some time. Common sense dictates that we should seek to provide alternative means to produce the things we need, and that we do so soon.

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Some of the most pressing environmental issues facing the human race are finding safe and realistic alternatives to our dirty fossil fuel addiction. All scientists have a different opinion when asked about peak oil; some claim there is no crisis while others say we have reached and/or passed peak oil and are adamant that we need to find a cleaner source immediately.



Dr. Chris Hartnady, the research and technical director at Umvoto Africa, says, "While economists may vainly hope otherwise, a majority opinion among earth scientists holds that the peak is now firmly in the past and that we are living through the most revolutionary period in the entire history of human civilization."

Dr. Hartnady is speaking of the point at which oil production throughout the entire planet has reached its maximum. From here on, production can only decline since we have extracted half of the earth's recoverable oil reserves: 1.1 trillion barrels. Hartnady claims this peak took place just last year (2008), while Ken Deffeyes, a geologist and Professor Emeritus at Princeton University, says our oil supply peaked in 1970, moved downward; then Alaskan oil was found, production went up slightly (although not as high as the peak), moved back down, and continues to fall.

Mr. Deffeyes also stated that the total amount of oil the human race has revealed on the planet is ninety-four percent of all that we will ever find. At the 2007 Nobel Conference held by Gustavus Adolphus University in St. Peter Minnesota, Deffeyes even went so far as to say, "Anyone who says oil will go on forever is either a madman or an economist."

Because the majority of our planet's most intelligent and experienced scientists say we've reached our peak, investigating where all this oil is being used is the next step. One of the main uses of fossil fuels is in the generation of electricity. Coal, natural gas, and petroleum are overwhelmingly the largest contributors to electricity generation. Next on the list is heating and cooling of homes and businesses. The major sources behind these are also abundantly fossil fuels. Third is the fueling of transportation. Our entire transportation infrastructure is built around fossil fuels, and while there are many alternatives, it may well be the most challenging to transform. Brilliant and resourceful people throughout the

world are working on this; bringing these alternatives to the forefront of our culture and, in several cases, actually putting them to use.

Ethanol

Beginning with Ethanol, the most well known alternative to petroleum-based gasoline, it must be said, that it is not the most efficient. Ethanol, while significantly cleaner burning is, in the end, not a sufficient substitute when its sources are taken into consideration. In the United States the bulk of Ethanol produced comes from corn which, according to nuclear chemist and Nobel Laureate Glenn T. Seaborg, is not the right crop. Dr. Seaborg says he can see biofuels accounting for five or ten percent of the world's energy source, but not with corn. Switch grass, industrial hemp, and sugarcane are much more reasonable sources for creating biofuels because they do not require the investment of such a large amount of energy into their production. Not only does corn require significant amounts of irrigation, pesticides, and herbicides, but it also requires much more land, time, and money to produce amounts large enough to use toward the production of ethanol.

Switch grass, however, has the potential to create over 540 percent more energy than is used to plant, harvest, and convert it altogether, according to a study published by proceedings of the National Academy of Sciences. This makes it far superior to corn which ravages fields and eventually leaves land stripped of nutrients.

Bio Diesel

A similar form of energy production for transportation sake is Bio Diesel. Ethanol is created, as mentioned above, from plants such as corn and sugarcane - as well as potatoes, wheat, and sorghum. It is an alcohol product (the same type of alcohol used in alcoholic beverages) which is made from these plants whereas bio diesel is made by chemically-reacting

Alternative Fuels by Sadie Norlin

lipids usually vegetable oil or animal fat (tallow), and alcohol. Most of the bio diesel made and used in the US comes from soybeans, however, straight "waste vegetable oil" (WVO) can also be used in diesel-engine vehicles. WVO can be found in cooking oil only dumpsters behind most restaurants that serve fried foods, and can be used just as gasoline in several diesel engines. Considering the concept of reusing such a common waste product as a fuel that produces almost no negative emissions, biodiesel may be a better alternative to gasoline than its sister concept ethanol.

Electricity

Another well known and currently used alternative fuel source for vehicles is electricity, the electric car. There are two types of electric cars in motion today: hybrids- cars that are not completely electric but are dual powered by electricity and gasoline to enhance performance in specific ways (mileage and increased power are two of these). Hybrids are more prevalently used in the US than are completely electric cars which use electric motors and motor controllers instead of an internal combustion engine.

These electric engines are powered by batteries which limit the distance one can travel before having to stop to recharge. (Recharging takes around one hour depending on the type of car you have.) Electric cars can be easily plugged into any household outlet to be recharged but when the battery needs to be replaced (a little too often with current models) the hefty price of a new one is another issue that requires further research. Of course when recharging is a topic, one must look at the production sources of the energy being used to do so. For electric cars to become a more prominent and efficient solution, something must be changed throughout electricity producing industries in the way of implementation of alternative energies. Solar power is a fantastic solution for a homeowner in the meantime. Having a few panels on a rooftop and using that energy to charge an electric car is an ideal concept for someone looking to reduce their carbon footprint.

Solar

Speaking of solar energy, vehicles using just that as fuel are yet another option. Vehicles powered by solar panels, or Photovoltaic (PV) cells, convert energy from the sun into electrical energy. The technology to develop solar powered vehicles into practical transportation is somewhat lacking at present and is primarily used in demonstration vehicles and in engineering exercises frequently financed by government agencies. The lack in technology pertaining to solar powered vehicles is very apparent in its mechanical systems- its gauges for one. These vehicles have almost all been built for solar car racing purposes as they are somewhat difficult to control and have gauges, either inside or outside the car communicating through wireless telemetry, which need to be monitored at all times. When all the limitations of solar powered cars are taken into consideration, it is clear no time soon will these vehicles be ready for day-to-day driving. Scooters powered by PV cells however are more plausible and have been put into use in some portions of the world.

Natural Gas

Natural gas is another alternative fuel that should be mentioned as it does burn cleaner than gasoline and has some potential (although somewhat limited). It is composed mostly of methane, is found near coal beds and oil pockets, and is created by methanogenic organisms. Natural gas is an

important fuel source and is used in power generation, has residential domestic uses, is used in fertilizer production, as aviation fuel, and in the production of hydrogen. Were natural gas used for automobiles, the cost per gallon would be around \$1.25 and many motorists would be able to fill their tanks from their garages as opposed to visiting refueling stations. There are many positives to using natural gas as fuel in vehicles, but one major contradiction appears. It must be used throughout the continent on which it is discovered as it is difficult to transport and currently the US has about ten years of natural gas supply remaining at current use- the planet; about sixty years. In light of these statistics, Natural Gas won't be the long term solution to finding earth friendly alternatives for our cars.

Hydrogen

Another controversial field of study in alternative energy sources is Hydrogen. Hydrogen is an energy carrier and can be produced from many primary energy sources. Hydrogen fuel cells have zero tailpipe emissions, good performance, are fast refueling, and many manufacturers already have cars ready for use. Fuel cells are energy conversion devices that combine hydrogen and oxygen which create electricity and water- leaving no emissions to negatively impact the planet. Just converting our transportation vehicles to hydrogen would reduce emissions by eighty percent. Although there are many positives to hydrogen use, challenges of course are present. To begin with, resources- where will the hydrogen come from? There are several ways to produce the gas such as how it is most usually done- by extraction from hydrocarbon fossil fuels via a chemical path. It can also be extracted from water through biological production in an algae bioreactor, or using electricity: electrolysis, with chemicals: chemical reduction, or with heat: thermolysis. None of these methods are efficient enough for mass generation when compared to the fossil fuel extraction process however. A second challenge of hydrogen is the technology needed to put it into use. The third major and last challenge to hydrogen powered transportation lies in logistics. Dr. Joan Ogden, Associate Professor of Environmental Science and Policy at the University of California explained at the 2007 Nobel Conference: Energy and the Future, that there is currently almost no infrastructure in place to support hydrogen car conversions or production. She provided an analogy to better clarify using the chicken and the egg concept pertaining to refueling stations and car production. Which comes first? It will be incredibly expensive to convert gas stations and cars to hydrogen fuel, but were all these challenges faced and conquered- we would have completely sustainable, emission-free, and personal modes of transportation. Considering there are over two billion cars in the world today (two hundred million in the US alone), hydrogen deserves at least a bit of our consideration.

Compressed Air

The last alternative energy which offers a solution to our transportation needs is compressed air. The way this concept works is through the storage of compressed air in tanks made of carbon-fiber, at pressures such as 30 MPa. If ever the tank is penetrated it would not explode as a petroleum tank would, instead it would crack- making compressed air much safer than most other fuel concepts. While most vehicles use the mixing of fuel with air and the burning of the fuel to drive pistons, compressed air cars would use the expansion of compressed air to drive their pistons.

Continued on page 12

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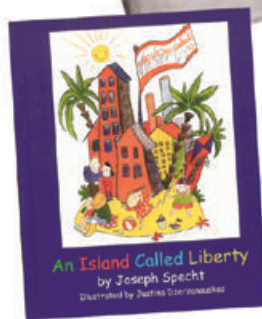
Alternative Fuels

Needless to say this alternative leaves no emissions at the time of use, but since electricity plays a part in compressing the air being used, as with electric cars- the source of the energy used to compress the air would need to be an earth friendly source. After investigating seven individual forms of alternative energy, it is apparent that one alone will not be a sufficient and long term solution for our transportation fueling needs. Instead a combination of the more realistic concepts is the answer. Not every vehicle will need to be converted nor will all cars have to be replaced. Fueling stations

won't all have to be demolished and rebuilt for a new purpose, but we could certainly stand to just completely get rid of thousands of them altogether.

Although it is a clichéd metaphor, we do stand at a precipice. Our planet is one giant organism and we as inhabitants must respect its sensitivity. Our planet is not here to serve us, nor are we here to serve our planet. We must coexist peacefully and we as humans must use our minds to collectively illuminate the possibility of not depending so fully on the use of fossil fuels.

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As we all learned in grade school, beneath its thin outer crust the earth is composed of boiling molten rock called magma. Geothermal energy production is the process of transforming the heat of the earth into usable power for human consumption. It is one of the cleanest, most sustainable and most underutilized ways of generating renewable energy in the world. Like wind, solar, and hydro, geothermal is virtually emissions free. Its advantage over these sources is that it has the potential to generate power around the clock, regardless of external conditions.

According to a study by Ólafur G. Flóvenz of the University of Iceland, the worldwide potential of geothermal energy is greater than that of hydropower, biomass, solar, and wind energy, combined. In fact, its potential is so great, that harnessing just one tenth of one percent of it would satisfy the world's energy needs for 13,500 years!

Currently, there are several different methods of harnessing the earth's heat for energy. Geothermal fields are areas where magma near the surface comes into contact with ground water. Most such fields are deep below the earth's surface and show few visible clues above ground. Conventional, large-scale geothermal systems transform the energy of geothermal fields into electricity in one of three ways.

Dry steam plants use steam generated directly from a geothermal reservoir to turn turbines in a power plant. Flash steam plants take high-pressure hot water from deep inside the earth and convert it to steam to drive generator turbines. After the steam cools, it condenses to water, which can be injected back into the ground to be used again. Most geothermal power plants are flash plants. Binary power plants transfer the heat from mildly hot water to a secondary fluid with a lower boiling point than water. This causes the second liquid to turn to steam, which in turn is used to drive turbines.

Only four states have conventional geothermal power plants: California, Nevada, Hawaii, and Utah. California has 33 geothermal power plants that produce almost 90 percent of the nation's geothermal electricity. The largest and oldest plant is known as the Geysers, located near San Francisco, which consists of 22 separate power plants that utilize steam from over 350 wells.

America is the world's leader in geothermal electricity generation, providing the third largest domestic source of renewable electricity (after hydroelectricity and biomass). Even so, this amounts to less than a paltry one-percent of total U.S. supply. However, environmental resource assessments show that geothermal has the potential to provide over 20 percent of America's electricity needs.

Geothermal energy is not just about large-scale electricity generation. In addition to conventional power plants, smaller scale utilization of geothermal resources is also possible. The direct heat method does not convert geothermal heat to electricity; it utilizes natural hot water at or near the surface of the earth. Hot spring water is piped into homes, buildings, or greenhouses as a heating source. This method obviously requires a fairly close physical proximity to natural hot springs.

Geo-exchange is another interesting, small-scale method of harnessing the heat of the earth by taking advantage of the near constant temperature of the earth's surface. Year round, the temperature just 10 feet below the surface remains a near constant 55° F. Geo-exchange is essentially a central heating/air conditioning system that actively pumps heat to or from the shallow ground. The constant temperature of the earth allows it to act either as a source of heat in the winter, or as a coolant in the summer.

This method can be used anywhere in the world, and has become popular for use in "green" buildings and single-family homes. It is a perfect, low cost way to heat and cool a home, off-the-grid.

As you can see, geothermal energy comprises a variety of different systems and methods, yet developers still face many obstacles, primary among which is inadequate public understanding. There seems to be a general misperception that geothermal energy is still experimental, environmentally destructive, or that the resources are nonrenewable or polluting. None of these is true. This is true at the smaller scale as well, where geo-exchange systems are hardly common knowledge. Another impediment to implementation is cost. A geo-exchange system in a single family home is efficient in the long run, yet has high startup and conversion costs that make it unattractive in the short run. Over time, as knowledge spreads and costs for competing conventional energy sources rise, implementation of geothermal systems is bound to increase.

Tapping the Earth

An Overview of Geothermal Energy

by Michael Nystrom





Truth About Water Powered Cars

By Melissa Cody

Why do we continue discussing the existence of water-powered cars, after last year, when Chevy debuted its new Equinox Fuel Cell and Honda released the FCX Clarity? Why is the media still questioning the methods used in water-powered cars such as the 2008 model from the Japanese company Genepax?

Earlier, in spring of 2007, Ford showcased the HySeries Edge, claiming to have the world's first working plug-in fuel-cell hydrogen-powered car; and in the previous year, a Ford Ranger XL was modified to accommodate the HydrogenNow process for on-board production of hydrogen. And how would it feel to cruise in BMW's Hydrogen 7, a hybrid hydrogen-and-gasoline engine, where gasoline is used only as backup after 125 miles of driving distance?

Even though some of those vehicles run on hydrogen, the process used in water-powered cars is similar. Hydrogen-powered cars derive oxygen

from air intake on the engine, re-combining the atmosphere of oxygen and on-board hydrogen into water as the emission.

If discussion on water-powered cars is needed, it should be to ask the question, "why has this technology not already been made available to us decades ago?" Utilizing water as fuel for a vehicle was first patented in 1918 by Ohio inventor Charles Frazer. Since then, improvements and similar methods have been developed in hydrogen fuel cell/booster technology.

The process by which this technology works is through water electrolysis. A cell is used as a chamber for two metallic plates, often stainless steel and, optimally, platinum. The cell is filled with water. Pre-charged water works best; salt water has the additional catalysis of the salt to aid conductivity; and pure water has a lower electrical conductivity. An electrical current passes through the water due to the chemical reaction of the submerged plates. Additionally, an outside electrical current is introduced into the chamber, in order to break the bonds of H_2O . This process causes the hydrogen and oxygen to split into two parts hydrogen, to one part oxygen.

The transformation (or decomposition) of

the molecules is energy, which is released at a rate which some people claim breaks the law of thermodynamics. However, Gibbs Free Energy describes the capturing of energy released during the transformation process from one state to another, which is the maximum allowed energy potential within a closed loop system, so long as the bodies involved are in their initial condition at the end of the process. That potential energy exceeds zero; and therefore allows for a renewable energy.

The molecules re-combine into water again after being fired in the engine cylinder. Some water is depleted through tiny holes within a car's engine and exhaust. Designs are possible to collect exhaust and re-supply the hydrogen fuel cell, causing very little or no leaking and thus, requiring less water (fuel).

A slightly different approach is a technique to where water is injected as a mist on the spark plug. The water is charged by the spark plug's electrical energy. That instantaneously electrolyzes the water around the plug. Then, the spark ignites the re-combining process of the gases, which powers the engine. In that sense, the same electric energy that separates the bonds from the charge of the spark is the same spark that induces the re-combining bonds, which, in turn, causes it to return to water, in order to repeat the process over and over.

Current technologies available on the market often utilize a hybrid electrical-and-hydrogen-powered system. None of the current technologies available to the public are self-sustainable without occasionally adding water or supplying electrical input, such as charging batteries. However, Genepax's 2008 model claims it does not require any battery recharges and has no emissions.

Not only is the energy from water electrolysis enormous enough to power cars, this method has also been employed as a propellant technique for lifting apparatuses into space. The hydrogen fuel cell technology is safe if it produces energy on-demand. The combustible gas in a fuel tank is, then, no longer a safety hazard, such as in the case of hydrogen tanks. Instead, in energy on-demand technology, water and electricity are the only fuels in a holding tank.

ON THE RECORD WITH ASHEWETH PALISE

The truth about water-powered cars is staggering. As far back as the 1800s there have been documented runs of hydrogen power from water. In fact, the first car was designed for water. The record of this technology reaching the public is shocking. You have a long time-line from the first documented and patented water-powered cars to now.

There are modern water-powered car inventors who have disclosed the technology and still are yet to get it on the market, such as Steven Ryan. Meantime, there is a lot of disinformation going around, mainly in the hydroxy or HHO water hybrids. In fact, popular media, like Popular Mechanics, have recently targeted HHO systems and are now saying that hydrogen injection cannot work. This is despite evidence in studies to suggest the contrary.

Ashebeth Palise, is Co-founder of the world's only Open Source University, devoted to research and development of alternative technologies, located in Australia and online at: <http://panacea-bocaf.org>.

Two Ways to Build a Battery at Home BY JOSEPH MAEL


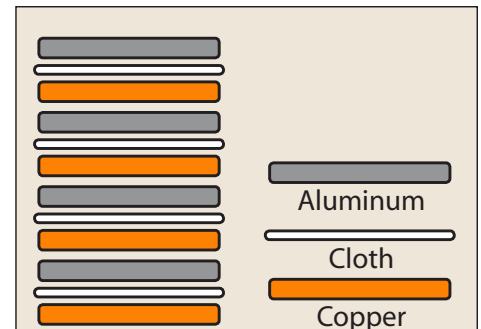
1 For this small experiment you will need only 3 potatoes, 3 copper coins, 3 galvanized nails, and four wires. As a test, you can use a common electronic tool, such as a simple battery-operated calculator. Remove the battery. You will insert in each potato a copper coin on one side and a nail into the opposite side. What will happen is that the copper will act as the positive terminal, while the nail will work as the negative terminal. Create a series by attaching a wire to the copper coin and leaving it free. Then continue through connecting wires from nail to penny, nail to penny, and the last wire will attach to the nail and be left to attach to nothing. Turn your calculator around, and attach the wire attached to the positive copper coin to the positive position, and connect the negative wire from the last potato to the negative battery port.



2 "Voltaic pile" is made with coins. First, collect your resources and organize them correctly. You will need these simple supplies before you sit down to get to stacking: **1.** Four nickels (aluminum base), **2.** Four pennies (copper base), **3.** A sheet of paper towel, **4.** Vinegar and table salt, **5.** Two wires, **6.** LED light.

Cut a strip of paper (double-layered), then cut that strip of paper into little squares, a little larger than the side of the nickel. Meanwhile, you should have about a cup of vinegar poured into a small bowl with about 1/2 cup of salt mixed together. Before stacking, make sure you have one wire taped to a penny, and one wire taped to a nickel.

Stack the coins and paper towels, alternating the layers like this: nickel, paper towel, penny until you stack all the coins (with opposite coins at either end). The paper towel pieces should be freshly soaked as you stack to avoid drying. Attach the free ends to an LED light. Using a volt meter will also let you know if there is any charge. Keep in mind that building a larger stack (more coins) will also contribute to the electric potential of the stack.



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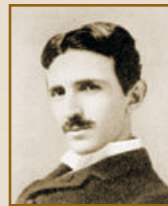
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Nikola Tesla



THE POLITICS OF INNOVATION

When most of us think of the father of modern electricity, we naturally think of Thomas Edison. After all, Edison did invent electricity, didn't he? Well, yes and no; what he invented was a form of energy called direct current (DC). What we use predominately today is alternating current (AC), which was invented by a brilliant inventor named Nikola Tesla.

Tesla came to America from Serbia (Yugoslavia) with a dream of bringing to the world the wonders that lay within his fertile imagination. He had dreams of marvelous inventions and he understood the physics behind what it took to create them. Tesla had a firm grasp of advanced mathematics far above that of Edison.

But Edison had the upper hand when it came to politics, marketing, and sales. He knew what investors wanted, what drove products to market—and that was profit.

So, in the beginning, Edison's DC power had the financial backing to place electrical energy into the homes of many people living in the vicinity of the power plant. This is part of the problem with DC current, in that you must live fairly close to the plant source, as DC power tends to degrade over distance.

AC current, on the other hand, has a much greater capacity for being transported over long distances. Yet in the late 1800's there was no reliable way of producing that energy. By the end of the 1800's, Tesla had brought to the scientific world not only a reliable device for creating AC power and devices for transporting it, but it was based upon an entirely new scientific principle.

When Tesla first came to America, he approached Thomas Edison in hopes of obtaining backing for his AC designs. Edison refused and rebuked Tesla for wanting to change the established power generation in America. Edison did, however, offer him \$50,000, if he could redesign his DC generators to make them more reliable.

Tesla worked for nearly a year redesigning the various components of Edison's generator and incorporating many of his own generator designs into it. By the time he had completed the work, Edison's original generator design had been vastly improved.

Tesla then went to Edison to collect his pay for improving the DC generator. Edison's response was "you do not understand our American humor." Tesla never received payment for his work or acknowledgement for his labor.

A short time later, after various odd jobs, Tesla finally applied for and received patents for many of his AC devices. Once word got out of these new patents he was invited to lecture before the American Institute of Electrical Engineers, a prestigious event.

Tesla not only impressed his professional peers in attendance, he also impressed a business man by the name of George Westinghouse.

Westinghouse saw in Tesla's genius what was needed to make electrical power available to not only a town but to the entire nation. Westinghouse purchased Tesla's patents and hired him as a consultant to aid in the development of a nation-wide electrical system.

As Westinghouse began to grow and become a direct challenge to Edison (backed by J.P. Morgan) the race was on as to who would become provider for the electrical market. Tesla, by this time, had a royalty contract which paid him two and a half cents for every horsepower of AC equipment that was sold by Westinghouse. This would make Tesla a very rich man.

As the competition quickened, Westinghouse saw that he

By Michael LeMieux

could no longer continue to pay Tesla such exorbitant royalties. Investors began wondering if Westinghouse would be able to continue business with such large payments going to the scientist.

Once Tesla found out what was happening he offered to release himself from the Westinghouse contract and forgo any further royalty payments. Tesla never received another royalty payment from Westinghouse.

Today, AC current is the standard used around the world. Yet, if you were to ask who invented electricity, most everyone would say Edison, and very few people even know who Tesla was.

In 1901 Tesla began construction on his most adventurous project known as the Wardencllyffe Tower Facility. This device was constructed to provide trans-Atlantic wireless telephony, as well as to prove the ability to transmit power without running wires.

The project was backed by a number of investors and bankers but the prime benefactor was none other than J.P. Morgan.

One of Tesla's goals for this device was to flood the ionosphere with charged particles, which would allow anyone to harvest free electricity.

Upon hearing about this, Morgan, who could not see how providing free electricity to the masses was good for business, cut off any additional funding. Once this occurred, other investors were reluctant to put forth any additional capital as well, and the project died.

The dream of free energy to the world, though a magnificent goal, was not a profitable one. What would our world be like if mankind could have limitless power? What if every home was built with its own power generation system? The technology is available, so why is it not done?

As with J.P. Morgan, all banks, large investors, and even the government are heavily invested in energy. And, as with Morgan, if you cannot place a meter on something, then why would you want to fund it.

Today, we have mandates from the government to create green power and green transportation. Now, rather than build a car that can convert hydrogen from water directly, the car manufacturers want to create a system that requires the operator to fuel the system with hydrogen, at stations just like gas stations, thus ensuring a constant stream of income from the sale of fuel. Do you really think that the automotive industry is not invested in the very thing that powers their products?

And are we just conspiracy theorists, if we ask why so many inventions are held by the government under what is called the "Patent Secrecy Order." Obviously, our government must ensure that certain patents do not disclose secrets for equipment that defends the nation. But, should that also include patents on energy?

It is estimated that the US Patent Office holds nearly 4,000 patents as secret, and will not release them to the public. Tom Valone, a former Patent Examiner, stated: "As a former Patent Examiner, I can tell you that the number of "secretized" patents in the vault at the Patent Office (Park 5 Bldg.) is closer to 4,000 or more. They never receive a patent number, and the inventor is rarely, if ever, compensated by the government for use of the invention."

Having a patent stolen by the government is only part of the problem. As with Tesla, inventors can experience loss of income, job loss, theft of intellectual property, physical intimidation, financial scrutiny by the IRS, harassment, burglaries, or even death.

Ken Rasmussen and his associates had been working on a "water-to-energy" electrolysis program that converts water and appears to utilize hydrogen to generate electricity. Members of his staff have had violent confrontations with men carrying automatic weapons demanding that they cease any further work on the project.

It was reported that the gunmen had in-depth knowledge about them, the

project and their families. The people in Ken's business have been intimidated, scared, and even threatened with death. The device has not been built outside the workshop, so there is no threat to current business operations. So, who else would have motive to act in such a heinous way? Given the connection between energy, banking, and government, I'm fairly certain the answer would not be far removed from any one of them.

Another case of suppression of energy comes from outside the United States, in the Philippines. Mr. Daniel Dingel has a business of converting gasoline cars to hydrogen cars, which are fueled from plain water. When Mr. Dingel approached the government of the Philippines about investing in his product, and to provide it to the people of his country, he received a response from the President himself, stating that he could not do so, because of an agreement with the World Bank.

So, what would cause the World Bank to care what a country does to power its vehicles, unless there are some very strong ties to global energy producers?

Bill Williams was working on a device that would allow vehicles to run with far greater power than regular gasoline engines. On April 6, 2006, while on his way home, Bill stopped and was quickly met with individuals carrying guns.

The men approached Bill and told him to cease all work on his alternative energy system. They further related information about his wife, his children, and grandchildren. They showed him copies of emails, messages, telephone transcripts, and various other documents from a file over 2 inches thick.

He was told that if he did not stop what he was doing there would be dire consequences. He was then shown a weapon carried by one of the men. Facing this kind of intimidation, Bill closed down his research and opted for the safety of his family.

Robert Stewart's factories were raided and shut down by the Federal Securities and Exchange Commission on two occasions for building the "Stewart Cycle" engines that are pollution free and efficient devices. He was then notified that a contract on his life was in effect and he was forced to go into hiding for nearly a year.

Ron Brandt had created a carburetor that gave 90-MPG efficiency. One day, Mr. Brandt was visited by a man from Standard Oil and three other men, two wearing US Marshal Uniforms. He was told to cease making any other carburetors, or else he and his family would be killed. He remembered the badge numbers of the US Marshalls and called an attorney to check the badge numbers. They came back as not assigned to any US Marshalls. He stopped making the carburetors.

Henry T. Moray was an inventor of a free energy generator. In 1940, Mr. Moray demonstrated the device to members of the Public Utilities Commission and showed a continuous output of 250,000 volts, with no apparent input. The next day, Mr. Moray was found shot to death and his device and papers were missing.

Phil Stone, a retired Florida college physics professor, created a device that would run an engine on water. The US government classified the patent as secret and prevented him from further development or communication about the device. Punishment for not obeying the government is 20 years in a federal prison.

Joseph Newman was denied a patent from the US Patent Office for his energy machine. Newman sued the Patent Office with over 30 electrical engineers, physicists and technical experts endorsing his device. The head of

Continued on page 18

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Nikola Tesla

The Patent Office, Donald Quigg, a 30 year Phillips Petroleum executive, ordered Newman's prototype confiscated and destroyed.

When Walter Rosenthal, a retired aerospace engineer, created a device that converted battery power to a high conversion gain output, he realized he had a very valuable invention. He was offered, eventually, \$400,000 to not put the device on the market. The device has never been brought to market.

The list of inventors and products goes on and on, with one recurring theme: greed from current energy providers wishing to remain in control of the market at all costs, and government collusion to ensure the status quo.

Nikola Tesla had a means to provide the world with free electricity and he was shut down because they could not put a meter on the consumer to charge them for the power.

There is an inventor that has a proven device that can create endless hot water without any additional fuel. When water is pushed through the device it emerges from the other end hot. Why don't we see this in every new home built? We could cut down on burning natural gas and provide endless hot water. The reason is because they cannot continue

to sell fuel if none is used to power the device.

I am currently working on a device, based on one of Nikola Tesla's plans, that will create heat without fuel and without an electric heating element. The cost to run the device is no more than what you would pay to power an electric motor; one tenth of what you currently pay to heat your home.

I wonder what the energy companies will say when I try to market this information to the general public.

Michael LeMieux is a retired U.S. Army intelligence and imagery analyst, and has served combat tours in Kuwait and Afghanistan with the 19th Special Forces. He is a Purple Heart recipient for injuries received in Afghanistan. Mr. LeMieux is the author of Unalienable Rights and the denial of the U.S. Constitution, published by Publish America and a regular writer for Republic Magazine. You can contact Mr. LeMieux via his website at: www.constitutiondenied.com.

For more information on this and related topics please visit:

<http://www.rense.com/general72/oinvent.htm>

<http://www.befreetech.com/energysuppression.htm>

http://en.wikipedia.org/wiki/Wardenclyffe_Tower

<http://www.electricitybook.com/nikola-tesla-birthday/>

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Harness the Wind

As crude oil prices peaked in the summer of 2008, sending gas prices soaring to record highs, alternative forms of energy again began to find their way into conversations and debates in both the United States and across the globe. One form of renewable energy proposed as a possible solution to the world's fossil fuel dependency is wind-generated power. By utilizing the Earth's plethora natural air currents, and by harnessing the massive amounts of energy behind the blowing forces, the world's energy problems could one day become a topic found only in history books. However, building a world that offers to all an endless supply of cheap energy has not been, and will not be, any breezy task.

Humanity has long sought to harness the immense natural power of the wind. Since the dawn of modern civilization, humans have continued to develop and engineer innovative ways to use wind as a power source in everyday life.

Throughout nineteenth century America, wind power played a central role in the country's expansion westward. Windmills were used to pump water used to power steam locomotives as they crisscrossed the young republic; farmers also utilized windmills for irrigation, which allowed crops to grow in areas away from inland fresh water sources.²

At the height of their popularity, upwards of a half million windmills dotted the American countryside. However, with the dawn of the industrial revolution, windmills began to lose favor to the internal combustion engine. Nevertheless, speculations on the theory of peak oil, along with ongoing global conflicts and other factors, have again brought the idea of harnessing wind as a power

source back to the table for another look. Modern wind turbines first entered the scene during the OPEC Oil embargo of the 1970's.³ The first modern industrial turbines were smaller and produced less energy (around 20 to 30kW) than today's models, which are capable of producing up to 750kW per hour of operation.

Proponents of wind power are quick to note the technology's obvious benefits – a virtually endless supply at low impact on the environment – as key reasons to support the expansion of wind-generated electricity into the national power grid. Critics, however, have remained skeptical, basing many objections on "Betz's Law" (developed by German physicist, Albert Betz in 1911), which states that no more than 59.3% of potential wind energy can ever be captured by a wind turbine.⁴

Wind power has also received opposition from several environmental groups claiming that wind turbines are disruptive to the country's historical aesthetics, and that they pose dangers to migratory birds. In 2004, the Tucson, Arizona-based Center for Biological Diversity, filed a lawsuit against Florida energy producer FPL Group, Inc. and NEG Micon A/S of Denmark. The lawsuit claimed the companies killed tens of thousands of protected birds at their jointly operated Altamont Pass Wind Farm in California. The lawsuit was dismissed in court on the ruling that private parties are unable to sue over public trust holdings when appropriate governmental regulatory agencies have issued permits, unless all other administrative relief had been exhausted. The appellate affirmed the lower court ruling as of this past September.⁵

Regardless of the ongoing debate over the actual impact wind generators have, or do not have, on the environment, wind power is on the rise. Last year, according to official data, Europe was generating 55 percent of its total energy consumption from wind turbines alone. Wind-generated energy has also begun to penetrate into China, Africa, and Central and South America.⁶ A giant in the turbine industry, Denmark currently ranks as the world's leading country in total wind power generation, per capita.

In the past, efforts to implement or expand wind-generated power systems in the U.S. suffered constant criticism and rejection, often at the political level. However, in recent years wind power has been steadily growing in popularity among political circles and private businesses and investors alike; since, existing wind power systems have undergone upgrades, and new wind farms continue to sprout up all over the country, resulting in the U.S. surpassing Germany as the country with the world's highest wind power capacity.⁷

In 2007 alone, the United States nearly doubled its wind output, reaching 16.8 Gigawatts. Domestically, California remains ground zero in technological refinements to the industry, constantly improving design and overall efficiency of wind turbines.

Due to environmental complaints, wind farm companies have been entertaining the idea of

Continued on page 20

By
Allison
Bricker



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constructing offshore facilities as an alternative to land-based farms. Offshore wind farms will aim to address both the issue of aesthetics, and that of migratory bird interference. Other recent innovations in the industry include smaller turbine models designed for residential and small to mid-sized commercial customers.

According to the American Wind Energy Association, the average cost of consumer-sized turbines range from around \$6,000 to upwards of \$20,000 for higher output models.⁸ Certain factors are used in determining the proper suitability for each case and customer. Relevant considerations include average yearly wind speed, land elevation, and local government regulations. According to a report by the National Sustainable Agriculture Information Service, the overall effectiveness of consumer-sized turbines significantly varies depending on location.

Windpower Monthly, an industry-based publication, reported that the world's total wind turbine energy output has steadily increased by 25 percent annually over the previous five years, bringing the world's total output to over 120 Gigawatts.

Pioneering advancements in wind power technologies continue to revolutionize our world. Conventional beliefs toward energy and the environment are getting replaced by more logical and insightful methods of thought. Still, experts agree that the future of wind power and its continued growth rely heavily on the industry's ability to increase efficiency, address concerns (both political and private), and continually meet consumers' alternative energy needs.¹⁰

¹ *Twentieth Century Impressions of Ceylon*, by Arnold Wright • Published by Asian Educational Services, 1999

² *The San Antonio News* "Quirky old-style contraptions make water from wind on the mesas of West Texas." Published September 23rd, 2007

³ *Department of State • U.S. Diplomatic History • "Second Arab Oil Embargo, 1973-1974"*

⁴ *Introduction to the Theory of Flow Machines • By Albert Bertz • Published by Pergamon Press – 1966*

⁵ *Burke, Williams, and Sorensen • Public Law Update • Volume 2 No. 10 • Page 15 • CENTER FOR BIOLOGICAL DIVERSITY et al. v. FPL GROUP, INC., et al., Alameda County Superior Court. No. RG04-183113*

⁶ *The UK Guardian "Energy in China: "We call it the Three Gorges of the sky. The dam there taps water, we tap wind" July 25th, 2008 • National Wind Watch "Fox to open La Venta II, La Venta III in the works" October 17th, 2006 • Tierramérica Wind Energy Finding a Place in Brazil September 20th, 2001*

⁷ *American Wind Energy Association "Installed U.S. Wind Power Capacity Surged 45% in 2007"*

⁸ <http://www.awea.org/faq/rsdntqa.html#TurbineSizing>

⁹ *U.S. Energy Information Administration "2007-U.S. monthly electricity use and price"*

¹⁰ *Windpower Monthly, March 2009-Monthly Focus "Global Wind Market Status 2009"*

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2. Turn off your PC when not in use. USA Today recently reported that companies waste nearly \$3 billion annually from failing to properly shut-down PCs when not in use. Turn off your computer when you are not using it. "Simply shutting down PCs at night can save a company with 10,000 PCs over \$260,000 a year, and 1,871 tons of carbon dioxide emissions," the report states. This can also save you money at home.
3. Efficiently light your home or business. Studies indicate a growing number of consumers have switched (or plan to replace) incandescent bulbs with compact fluorescent light (CFL) bulbs, which produce power that lasts up to four times longer.
4. Buy a ceiling fan. Because warm air rises, you'll want to get the warmer air down low by buying a ceiling fan. Reversible switches come on most all models and can be used in summer time too. The relative cost of the ceiling fan and usage costs are quickly made up in savings.
5. Invest in good power strips. The world is gadget happy. Aside from usual electrical needs (lamps, computers, television) we also have video games, iPods, cameras, battery re-chargers, and speakers, among the many others. Good power strips make a difference; cheap strips must be turned off in order to keep from losing "phantom power," while a Smart Strip (\$40) or Watt Stopper (\$90), will make an impact on wasted energy and lower your energy tab.
6. Get a low-flow attachment for your sink. For around \$10-\$15, this will help control your sink's water waste. Low-flow attachments will also help on your shower and bathroom water heads. Insulating your plumbing and making sure your refrigerator is an Energy Star product will be cost saving.
7. Inefficient refrigerators can consume massive amounts of electricity and run at about a 30 percent higher energy output level.
8. Green exercise machines. Soon it will be common to see people bringing their rechargeable battery to the local gym - hooking it up to upgraded spinning bikes or rowing machines, exercising, and taking the battery home, where it can be used to power up common utilities.
9. Common alcohol can be used for many purposes, including cleaning, anti-bacterial sanitizing, and even deodorant.
10. Insulate your windows. A window that is well-insulated will act as a radiator, bouncing cold air away in the winter, which will cut down on the need for blasting the thermostat to get your desired home or business temperature.



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BUILDING A DO-IT-YOURSELF SOLAR PANEL

BY JOSEPH MAEL

Nearly 30 years since its introduction, it's sad to see solar electricity barely being used any more now than it was back then. Searching to see just how far we have evolved in terms of solar power accessibility, I jumped on the net to help find a few ways I could build my own solar cell.

There are several different methods to make your own solar cell at home—some complicated, and some simple. The most efficient method in terms of cost and productivity happens to be the simplest method. Building a solar panel from broken (salvaged) cells will do the trick, and it requires little in the way of supplies.

The first step would be to get the needed supplies listed below: **1.** Silicone, **2.** Multimeter, **3.** Conductive pen (these are purchased easily online or at some hardware or electronics stores), **4.** Conductive copper mesh, which can be purchased online or at local art stores, **5.** A flat work surface, such as glass or clean wood, **6.** Glue gun, **7.** Broken solar cells, which can be purchased from specialty websites, on Ebay, or at local outlets.

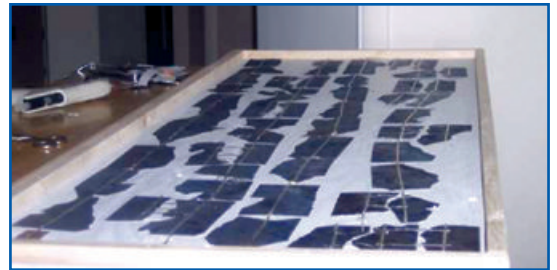
Align the cells, so that you have them arranged similar in size, as the output will only be as strong as your weakest producing broken cell. Also, check each piece individually with the multimeter to determine if the cell has a voltage reading - one bad link and the mission will fail! Also remember

that the positive side of the cell (gray) will be on the bottom and the negative side (black) will face up.

Now, if there is no straight line jutting across each broken cell, this is the time you'll use the conductivity pen to draw a straight line across the cell. This will connect each of the pre-existing little lines within the cell piece.

The next step is to provide connectivity by linking the cells together. Get the glue gun and conductive mesh ready. It will almost appear to be woven in a series; as you glue down the mesh starting at the negative side of one cell, glue down to the positive side of the next cell and continue this method until all your cells are attached. Make sure to use the multimeter to double-check that voltage is established at each connection. To do this, double-check the first three cells of the "panel" by making sure the first cell has the mesh glued to its negative side and weaves to the next cell in the proper order on its positive side. Now, this cell will have a mesh piece glued to its negative side, which will lead to the positive side of the next cell, and so on and so forth, until all the cells are connected in this manner. If the cells are small in size and number, you will be lucky to light an LED, yet the larger the cells, and the more numerous the connections, the higher the voltage output. To establish higher amperage through the circuit you'll need to connect cells in parallel, meaning you will also run the mesh along the circuit from positive to positive, and also from negative to negative, being sure not to short the project out by allowing the mesh to touch its opposite side.

Finally, once desired output is reached the cells can be covered with silicone for protection and placed in the light.



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~ Dr. Paul on Alternative Energy ~

BY MICHAEL NYSTROM

Dr. Paul's position on alternative energy is, with no surprise, consistent with his philosophy of limited government and free markets. In an interview with Grist Magazine during his presidential campaign¹, he stated:

"Reliance on the government to devise [an energy] policy is a fallacy. I would advocate that the free market take care of that. The government shouldn't be directing research and development, because they are bound and determined to always misdirect money to political cronies. The government ends up subsidizing things like the corn industry to develop ethanol, and it turns out that it's not economically feasible."

Speaking of the corn industry, government subsidies have created massive surpluses of corn. The subsidies happen to be politically popular among a small, yet powerful interest group – corn farmers in Iowa – who every four years help determine which candidates will win the Iowa caucuses – the first stop on the way to the U.S. Presidential nomination. Corn for votes is harmful in many ways to American citizens. Something has to be done with all the excess corn!

In addition to creating massive surpluses of high fructose corn syrup, which is dumped into the bodies of American consumers via low quality food products (see the excellent documentary 'King Corn'); Congress's latest solution is simply to burn it – as ethanol. Unfortunately, corn-based ethanol is one of the most inefficient methods of energy production yielding at worst zero, and at best a paltry 30 percent energy gain over energy expenditures in its production. In just this one example, we see how government subsidies completely distort the market and have a tremendous negative national (and global) impact. Dr. Paul's conclusion: "Let the market work."

However, what about the environment? Wouldn't the cheapest methods of free market energy production – for example coal – result in environmental

degradation? Dr. Paul's approach again shuns the bureaucratic governmental intervention of the EPA, in favor of utilizing the legal system at the local level. Dirty power production is only "cheap", because producers are allowed to cut corners and externalize their costs as pollution.

Dr. Paul addresses this in a conversation captured on YouTube with supporters during his presidential campaign. Dr. Paul states:²

"No one has the right to pollute your air, or your water, or your property. That is a property rights issue – it is not a government, regulatory, socialist issue. Under the private property and free market approach, nobody has the right to pollute."

The government's proper role is to hold polluters responsible for their actions, not to be an inspector that assumes energy producers will do something wrong. By strictly enforcing property rights, power producers would be forced to take responsibility for, and internalize, costs that are currently externalized via pollution. This would go a long way toward putting competing clean technologies, such as wind and solar, on an equal-cost footing as the high pollution producing methods.

Dr. Paul is a strong supporter of renewable energy. "I love it," he says, "because it makes a lot of sense." Yet, in order for it to truly be efficient, the free market must be the creative source driving its development – not arbitrary government mandates that are politically motivated and likely to cause more harm than good.

Michael Nystrom is the founder and editor of the Daily Paul (www.dailypaul.com), the largest grassroots Ron Paul community on the Internet.

¹ <http://www.grist.org/feature/2007/10/16/paul/>

² <http://www.youtube.com/watch?v=aQU2FEr6Hk>

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Where's the Oil Coming From?

The petroleum we use in the United States comes either from Alaska, the lower 48 states, or is imported. In January 2009, 5 percent came from Alaska, 30 percent came from the lower 48, and the remaining 65 percent came from imports. Canada, Mexico, Saudi Arabia, and Venezuela topped the list of importers for January, 2009. Surprisingly, only 3 Middle East countries are listed in the top 15 importers, Saudi Arabia, Iraq, and Kuwait, and the total imports from those three countries represent less than 20 percent of the total US petroleum imports.

By way of comparison, domestic oil production in Alaska for January was about 700,000 barrels per day, while the total import from Middle Eastern countries was about 2.2 million barrels per day. According to the State of Alaska 2004 Annual Report, oil production in that state alone during 1988 was 2.1 million barrels. In January, 2009, the average monthly production for Alaska was almost 680,000 barrels.

Potential sources of domestic oil include the Arctic National Wildlife Refuge at 250,000 barrels per day, the Bakken Formation at approximately 4.3 billion barrels (Markman, 2008), and fields under the Arctic Ocean representing as much as 400 billion barrels.

Prudhoe Bay, on the North Slope of Alaska, is the origin of the Trans Alaska Pipeline System (TAPS), which terminates in Homer, Alaska. TAPS is reported to have a maximum capacity of around 2 million barrels per day (Prudhoe Bay) and has sufficient capacity to deliver ANWR oil, should approval be granted.

Analysis of Crude Oil Production in the Arctic National Wildlife Refuge. (2008, May).

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By Robert Welzel



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Going with the Flow

A look at Hydroelectric Power

By
**Clint
Richardson**

Hydroelectric power is truly a renewable energy source. To understand why, one only need look at the natural cycle of water. Heated by the sun, water begins to expand and eventually evaporates. It then rises into the atmosphere where it condenses into clouds before falling back to Earth again in liquid form where it gathers into rivers and streams.

Hydroelectric power is created by harnessing the natural or diverted flowing of this energy source through the use of turbines. Similar to a water wheel, as water is forced against the blades of a turbine, it begins to turn. The resulting spinning motion of the turbine moves strong magnets past a conductor, causing friction, which creates electro-magnetic energy. The power is then transformed into high-voltage AC current, sent through power lines and into homes and businesses. So, for all intents and purposes, you could think of a hydroelectric turbine as a huge under-water windmill (See Figure 1 below).

Hydropower is our most plentiful and efficient renewable energy resource, contributing more than 90 percent of all renewable electric energy produced in America. Of the renewable energy sources that generate electricity, hydropower is the one used most often. It accounts for approximately six percent of total U.S. electricity generation. According to the United States Society on Dams (USSD), if all energy produced by hydropower were instead produced by coal, pollutants in the air would increase by 16 percent. The World Commission on Dams (WCD) reports that a third of all countries depend on hydropower for more than half of their electricity, and over a third of irrigated land depends on dams. Much of the world's food is subsidized by cheap irrigation water provided by these dams. Currently, most farmers are not able to make a profit on their bushels without this and other government subsidies.

A BIT OF DAM HISTORY • Hydropower is not new. It was used thousands of years ago with the advent of the paddle wheel in grinding grain, pulley systems for lifting, and other chores. Yet, because the source of hydropower is water, hydroelectric power plants must be located on a water source. Therefore, it wasn't until the development of technologies that enabled electricity to be transmitted over long distances that hydropower became a viable and widely used commodity.

ENTER NICOLA TESLA • In 1881, The Niagara Falls hydropower plant, under the leadership of Jacob Schoellkopf, produced enough power to send direct current (DC) power to illuminate the nearby Niagara Falls Village and the falls themselves. Until the late 1800's, coal was the only fuel used to produce electricity.

Then Tesla, along with inventor George Westinghouse, built the first hydroelectric power plant at Niagara Falls. By 1896, with financing from moguls like J.P. Morgan, John Jacob Astor IV, and the Vanderbilt's, the two had built huge underground conduits leading to turbines generating 75 Megawatts, and were sending AC power as far as Buffalo, twenty miles away.

While Tesla was not the inventor of hydroelectric power, he was the brilliant mind who discovered that direct electrical current (DC) could be converted into his Poly-phase Alternating Current (AC). This electricity could then be carried long distances through high-power lines, making hydroelectric power available anywhere. Today, Tesla's Poly-phase Alternating Current illuminates the world.

"Tesla has contributed more to electrical science than any man up to his time."

—Lord Kelvin, British scientist and member of the Niagara Falls Power Commission

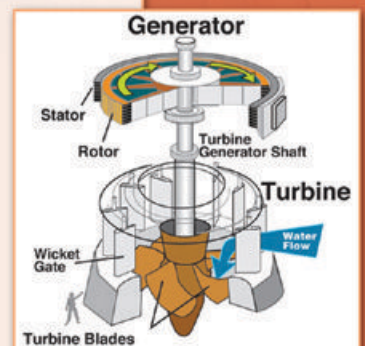
THE DARK SIDE OF DAMS • While large dams do produce electricity for millions of homes, there are side effects to our current hydroelectric power system. Dam construction comes at a heavy cost, considering the sometimes-devastating effects to nature, fish, and wildlife.

A recent WCD report concluded that dams' impacts on ecosystems are "mostly negative." As of February, 2008, it is estimated that 40 to 80 million people worldwide have been physically displaced as a direct result of dam construction. When built, dams create a reservoir in the surrounding area, taking the place of the local habitat. Large dams have contributed to the extinction of many fish and other aquatic species and birds, and have also played major roles in major losses of forests, wetlands, farmland, and coastal deltas.

The lesson here is that renewable energy does not always equate to unlimited supply, especially when future demand is greater than natural resources can supply. Obviously, more careful ecological and infrastructure planning must accompany all energy projects.

For more information, contact Clint Richardson with We Are Change LA at: www.wacla.org; or email him at: introspector48@yahoo.com.

FIGURE 1



THE ONLY THING THAT STANDS IN THE WAY
of the
NEW WORLD ORDER AGENDA

is
YOU!



A global shift in consciousness is taking place. In the States and all over the world people are growing in awareness that we don't have to accept the status quo any more - continuous governmental deception, corporate greed, polluted water, a soiled environment, genetically tinkered food, Big Brother-style civilian

monitoring, police taser brutality, unlawful taxes, cell phone and WiFi radiation, secret concentration camps for dissenters, and suppression of free energy technologies which could provide every human with a decent standard of life.

YOU have the real power to change things if you want. After all, a couple of thousand elitist banksters and gangsters at the top cannot control 6 billion without the masses cooperating and letting them. The time has come to stop cooperating with the old system and to construct a new system where We the People have the authority.

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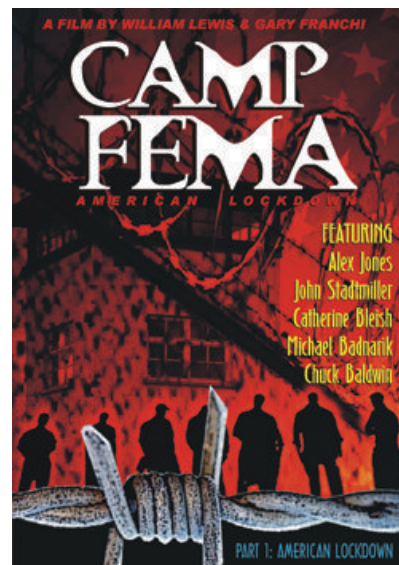
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Proving perpetual motion as fact presents the same problem as does Mr. Wright's goal. Forever and perpetuity are very long times; and stopping, like death, could be just around the corner.

To alleviate the burden of eternal observation, a more practical definition can be developed: a system manifests perpetual motion if, once set in motion, it remains in motion for a very long time using no fuel. A machine that does use fuel, yet produces more output energy than it receives input energy is said to exhibit over-unity.

In the early 1700's, Johann Bessler, who re-named himself Orffyreus, reportedly designed a perpetually rotating wheel that used a system of internal weights and pivots to prevent it from reaching equilibrium. Several progressively larger versions of the wheel were built, with one of them reportedly capable of lifting a 50 pound weight. The final design was 12 feet in diameter and rotated at a constant 25 rpm. Set in motion in a sealed room in Weissenstein Castle, it was running, unattended, 51 days later when the door was opened. Orffyreus was in negotiations with government officials for the sale of his wheel when he found one of them peeking under the canvas that obscured its mechanism. This demonstration of what Orffyreus considered government skepticism so angered him that he smashed the wheel. Although he built others, Orffyreus died in 1740 without leaving any plans or diagrams. Skeptics of the time believed the wheel to be powered by a clockwork mechanism. Bessler, before becoming Orffyreus, reportedly made his living as a watchmaker.

Not far from the birthplace of Orffyreus's wheel lies the town of Linden, Switzerland, where members of the Methernitha Christian Alliance enjoy the benefits of their testatica machine. Built in 1977 by Methernitha, founder Paul Baumann, the testatica uses two discs that, being first turned by hand, continue to rotate in opposite directions and produce a static charge that accumulates and is stored in a condenser. The output is said to vary between 3 and 4 kilowatts at 270 to 320 volts, depending on the surrounding humidity. Although the Methamithians have successfully demonstrated their machine to scientists and engineers outside the community, they have not yet seen fit to license or sell the technology.

The renowned Norwegian artist and sculptor, Reider Finsrud, has built what is possibly the world's only verifiable, near-perpetual motion machine. His P-mobile sculpture uses a system of pendulums to move three horseshoe magnets closer and farther away from a steel ball that orbits within a circular aluminum track. The machine, in continuous operation since 1996, has run as long as 14 days without stopping. Finsrud's sculpture relies on a large, chaotic range of "codes," or possible stopping sequences for the pendulums. Only one out of all possible sequences will cause the magnets to stop the ball.

There is no shortage of over-unity and perpetual motion demonstrations

The Perpetual Allure Of Perpetual Motion

BY JOHN DEVOE

"I intend to live forever; so far, so good." –Steven Wright

on YouTube, ranging from the absurd to the amazing. One that stands out, because of its simplicity and the possibilities it presents, is the Calloway V-Gate demonstration posted by Ross Wordhouse. The V-Gate itself is a V-shaped array of magnets that moves a ball, or a toy car, from one end to the other by the increasingly strong magnetic force it encounters along the way. The problem is that the moving object will stop at the end of the "V" when the magnetic force exceeds its momentum. Mr. Wordhouse has mounted cylindrical magnets in the "V" pattern along the outer edge of a skateboard wheel and mounted the wheel to an axle. By holding a stator (stationary) magnet close to the wheel, he causes it to spin.

If he holds the magnet still, the wheel will hang at the wide part of the V, yet if he moves the stator out and back again when it aligns with the V-gate, the wheel keeps spinning. In Part Two, he uses a larger stator and some longer rotor magnets and gets more than a single rotation without moving the magnet. Imagine a cam attached to the wheel that would move the magnet just in time, making the system self-sustaining. Or, imagine attaching four wheels, each 45 degrees out of phase with the previous one, to a single axle.

Newton's lawyers will argue that both perpetual motion and over-unity violate his first law of thermodynamics, which says you can't win, as well as his second law, which says you can't even break even. They make these arguments, however, while standing on a spinning planet that has orbited a star for over four billion years, in a universe composed of tiny particles that have been orbiting nuclei for a whole lot longer. The jury, it seems, is still out.

1 Orffyreus (Bessler) and his perpetual motion machine:

<http://www.spartechsoftware.com/dimensions/mystical/Orffyreus.htm>

2 ibid

3 The Mysterius Stranger Part 1:

<http://thefutureofthings.com/column/1007/the-mysterious-stranger-part-1.html>

4 Methernitha: <http://www.methernitha.com/English/english.htm>

5 Steven Marinov New Energy News, Vol. 4, No. 3, July 1996, pp. 1-3.

6 Methernitha: <http://www.methernitha.com/English/english.htm>

7 <http://video.google.com/videoplay?docid=553061720631716456> showing the P-mobile in operation

8 http://peswiki.com/index.php/Directory:Finsrud%27s_Petpetuum_Mobile quoting Rita Bertveit


9 Frode Olsen: <http://keelynet.com/energy/finsrud3.txt>

10 <http://www.youtube.com/watch?v=kCr3lOhMJCg> part 1, and

<http://www.youtube.com/watch?v=uHffjiC2whk&feature=related> part 2

11 See, eg.: <http://www.callowayengines.com/att53.jpg>





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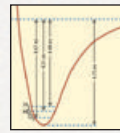
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BY ALLISON BRICKER

"Zero-Point Energy" is a proven and accepted theory of quantum mechanics, which illustrates that resting atoms retain measured energy output in the form of vibrations. German Physicist Max Planck provided the first published formula pointing to its existence in 1900.¹ However, it was not until thirteen years later, upon Albert Einstein and Otto Stern's published findings on "residual energy," that zero-point energy began on the long road of becoming an accepted scientific principle.²

Early pioneers in the zero-point energy field, such as Nicola Tesla³ and

Zero Point Energy



Henry Moray⁴ set out to capture this residual energy from space, in hopes of providing an infinitely renewable "free" source of electricity. Both successfully produced small-scale models demonstrating the ability to harness zero-point energy. Nevertheless, the men encountered numerous roadblocks in winning widespread acceptance of their environmentally friendly electric generators.

Mr. Tesla ran into difficulty securing continued financial underwriting of his work. Simultaneously, a substantial amount of his royalty payments ceased as several of his European patents expired. These financial setbacks, according to reports by friends close to Mr. Tesla, sank him into an irrecoverable depression. Whereas Nicola Tesla failed due to a lack of financing, Mr. Moray repeatedly encountered bureaucratic red-tape at the U.S. Patent Office. Many patent administrators were either ignorant of, or dismissed, the theory of zero-point energy in its entirety. Some also incorrectly labeled Mr. Moray's device as a perpetual motion mechanism. In the end, the records, experiments, and schematics of both Mr. Tesla and Mr. Moray were either lost or destroyed upon their deaths, thereby hampering further evolution of their initial findings.

Further asphyxiating refinements in the practical application of zero-point energy devices came from the fact that many scientists felt Albert Einstein's theory of relativity trumped⁵ and eradicated the mathematical need of unseen "residual energy." Regardless of his findings, completed and published in concert with Otto Stern eight years after his theory of relativity, it, not zero-point energy, became the bedrock from which further quantum extrapolations were based upon. All throughout the early 20th century, scientists debated the formerly held belief of the invisible "ether" or energy of space. Finally, in 1948, as the science of quantum physics expanded in its entirety, Dutch physicists, Hendrik Casimir and Dirk Polder, utilizing the laws of quantum electrodynamics, successfully proved

the existence of zero-point energy, even within the vacuum of spacetime.⁶

Consequently, once the afterglow of its initial promise faded from the public mindset, the term became wholly detached from its principle theory. The initial ignorance of confusing the science with perpetual motion devices further embedded itself into both the mindset of scientists within a variety of disciplines and the public at large. Further exacerbating the metastasis of the misnomer were those who sought to capitalize on the salience of free energy.

The marketplace continues to be flooded with both open and closed systems, based partly on the meager remnant of work left by Nicola Tesla and

T. Henry Moray. From the twenty-eight devices researched during the course of writing this article, each solely relied upon the electromagnetic portion of the equation, while completely omitting the interception of spacetime energy as proven to exist

by the Casimir effect and employed by both Mr. Tesla and Mr. Moray in each of their respective zero-point energy motors.

One of the most recent examples of widely publicized claims of an "over unity" generator, co-mingled as zero-point energy, and designed around principles of electromagnetism, is the LuTec 1000. Self-appointed Australian scientists John Christie and Ludwig Britz, both appeared on Sky News Australia,⁷ where they demonstrated their machine and solicited for investors throughout the interview. However, contrary to their claims during the interview, no independent laboratory analysis reports ever surfaced to substantiate their claims. Instead, the pair found themselves on the receiving end of a class action lawsuit launched by previously duped investors. Additionally, the pair is currently under investigation for allegations of fraud by the Australian Securities and Investments Commission.

In conclusion, some in the scientific community are revisiting the complete theory of zero-point energy and examining whether it might answer some fundamental unknowns of "supersymmetry", as well as "string theory". Quantum physicists acknowledge its validity has long gathered dust on the shelf. Moreover, regardless of its overall ability or lack thereof, physicists concur that zero point energy remains in its infancy⁸.

Sources: ¹ "The dilemmas of an upright man", J. L. Heilbron, Harvard University Press, 2000 • ² Laidler, Keith, J. (2001). *The World of Physical Chemistry*. Oxford University Press • ³ "The Fantastic Inventions of Nikola Tesla", David Childress (1993) • ⁴ "The Energy Machine of T. Henry Moray: Zero-Point Energy & Pulsed Plasma Physic", Moray B. King (2005) • ⁵ "Quantum vacuum energy in general relativity", *Physical Review. Digest* 11, 3370 - 3377 (1975) • ⁶ "The Influence of Retardation on the London-van der Waals Forces", *Phys. Rev.* 73, 360 - 372 (1948) • ⁷ SkyNews Australia, August 02, 2007 • ⁸ "The Casimir effect: physical manifestations of zero-point energy" By K. A. Milton, Published by World Scientific (2001)

ON THE RECORD

WITH BRIAN PRATER OF CAVETRONICS R&D ENERGY LABS, MAGNETIC RESEARCH AND DEVELOPER

"Zero point energy" is an extremely high frequency electromagnetic radiation. This frequency is higher on the spectrum than even gamma rays. That spectrum is called the "zero point spectrum." The existence of this electromagnetic energy was discovered in 1958 by Dutch physicist M.J. Sparnaay. He and Hendrick B.G. Casimir, in 1948, showed the existence of two uncharged plates, which came about from electromagnetic energy surrounding the plates in a vacuum. Sparnaay discovered the classical electromagnetic zero point energy. This energy is identical in all directions and exists everywhere. The intensity of the energy, at a given frequency is proportional to the cube of that frequency.

Nobel Laureate Richard Feynman and one of Einstein's protégés, John Wheeler, calculated that the zero point energy within a coffee cup would evaporate all the world's oceans. Andre Sakharov, a Soviet physicist, states that space between stars, and space between particles, and even matter, are

filled with fluctuating energy.

There has been a lot of scuttlebutt whether zero point energy comes from the Big Bang or whether it was before the Big Bang. The fluctuation of the universe is like a cosmological feedback system, where charged particles radiate energy due to the quantum fluctuation of all particles; and these particles radiate, or communicate, with all other particles.

In the future, the zero point energy will be the source of electromagnetic energy in a field distribution. With those future technologies, no matter where you are in the universe, one can utilize zero point energy much like wireless internet. We will be able to utilize the zero point energy on a much larger scale, which will allow us to tap into the quantum fluctuation of the zero point field. Our computers, cities, cars, and homes, will be powered in an endless non-polluting virtually free energy."

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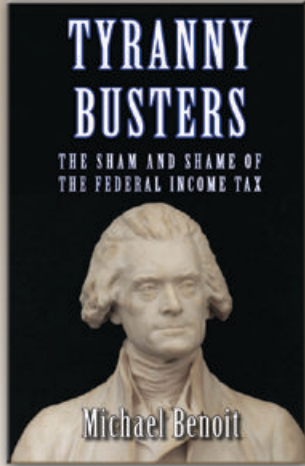
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