



# Steve Ryan on 60 Minutes



<http://www.youtube.com/watch?v=POJQKg9CRJc>



# **Cavitating Electrolyzers The Key to “Over Unity”**

**Moray B King**



# **HHO Device to ZPE Device**

**Cavitate the Water**

**Circulate the Water**



# HHO Device to ZPE Device

## **Cavitate the Water**

Activates/Coheres Zero-Point Energy

## **Circulate the Water**

Creates Turbulence

Electrostatic Charging

Builds Up Energy Content



# Featured Inventor: Mark LeClair

**Mechanical Engineer**

**Fluid Dynamics – Cavitation**

**Element Transmutation Experiment**

**Microscopic Water Crystal**

**Extraordinary Energy Density- ZPE**

**<http://nanospireinc.com/>**



# LeClair's Water Crystal Similarities

- Ken Shoulder's
  - EV Electrum Validum
  - EVO Exotic Vacuum Object
- S.V. Adamenko's
  - Plasmoid Strikes
  - Super-Nucleosynthesis
- **All Exhibit Element Transmutation**



# Explain Brown's Gas

## Excess Energy Anomalies

Not from Burning Hydrogen

## Charged Water Gas Cluster:

LeClair's Microscopic Water Crystal  
Stabilized in a Ring Form



# Water as Fuel (via ZPE)

## Sterling Allan



[Play](#)

[http://peswiki.com/index.php/Video:Water as Fuel \(via ZPE\)](http://peswiki.com/index.php/Video:Water as Fuel (via ZPE))

# HHO Games



**HHO Games & Exposition, Inc.**

A Florida Non-Profit Educational Organization  
PROUDLY PRESENTS

**2010 HHO SUMMER GAMES**

<http://hhogames.com/>



# YouTube: Water Fuel

Over 41,000 Videos

**YouTube**   [Browse](#) | [Movies](#)

Filter ▾ About 41,600 results



Richard Chapman  
3:24

**Chevron Technology Video**  
Chevron Is Using Steamflooding to Extend the Oil Supply. Watch Video.  
by Chevron | 14,815 views



1:29

**PEM Electrolyser on sale - Start creating pure hydrogen gas**  
Visit [www.H2Sunlight.com](http://www.H2Sunlight.com)  
by H2Sunlight | 50,131 views Ads



2:39

**Water Fuel Car**  
A CAR THAT RUNS ON WATER!  
by Hefeweizen | 6 years ago | 3,652,152 views



Eric Pk  
2:56

**Salt Water Fuel**  
An accidental discovery of salt **water fuel** while doing cancer research  
by ChelseyTang | 5 years ago | 741,390 views

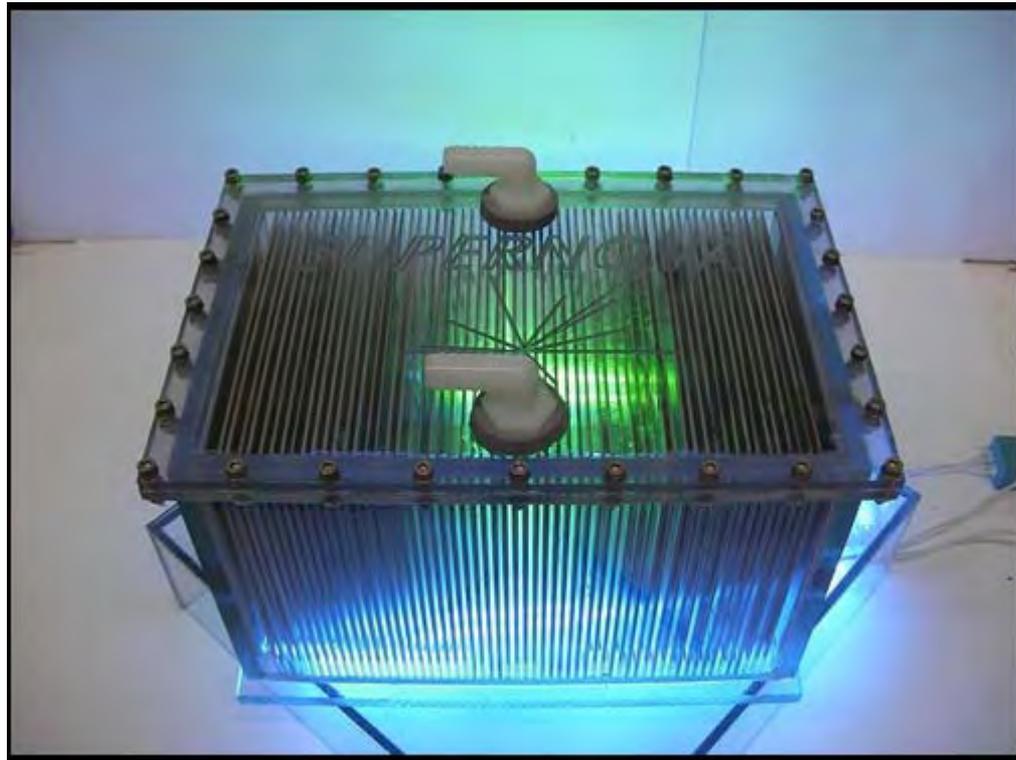


7:00

**Water fuel .**  
This little engine has been retrofitted with a device that takes the waste heat from an engine and uses it to make hydrogen out of tap **water**. This ...  
by eternalstarsurfer | 6 years ago | 1,127,827 views



# March Labs



25 LPM, 110 V, 18 A

<http://www.marchlabs.com>

# B.E.S.T. Korea Co., LTD



[http://www.browngas.com/eng\\_bestkorea/main\\_eng.htm](http://www.browngas.com/eng_bestkorea/main_eng.htm)



# Bob Boyce



**70 Plates**

**3 mm gap**

<http://www.bobbyoyce.org/>

[http://peswiki.com/index.php/OS:Bob Boyce Electrolyzer Plans](http://peswiki.com/index.php/OS:Bob_Boyce_Electrolyzer_Plans)

# Dry Cell Kits



**Gaskets Separate Plates**



# Anton Cell

1 mm  
Gap



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



# Anton Cell Feeds Water at Bottom



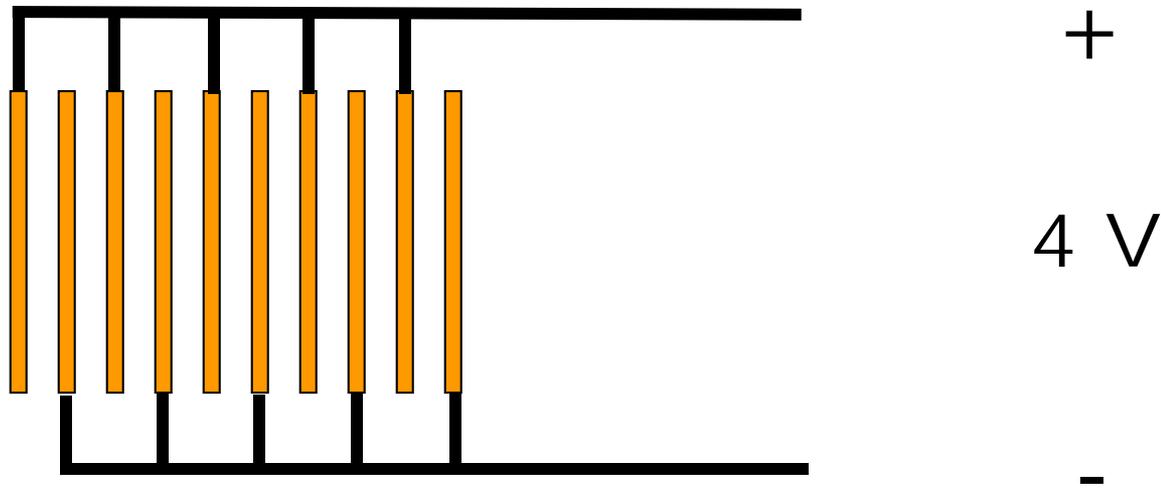
<http://anton-shop.com/>



# Electrolyzer Wiring

**Typical Wet Cell**

**Plates Completely Immersed**

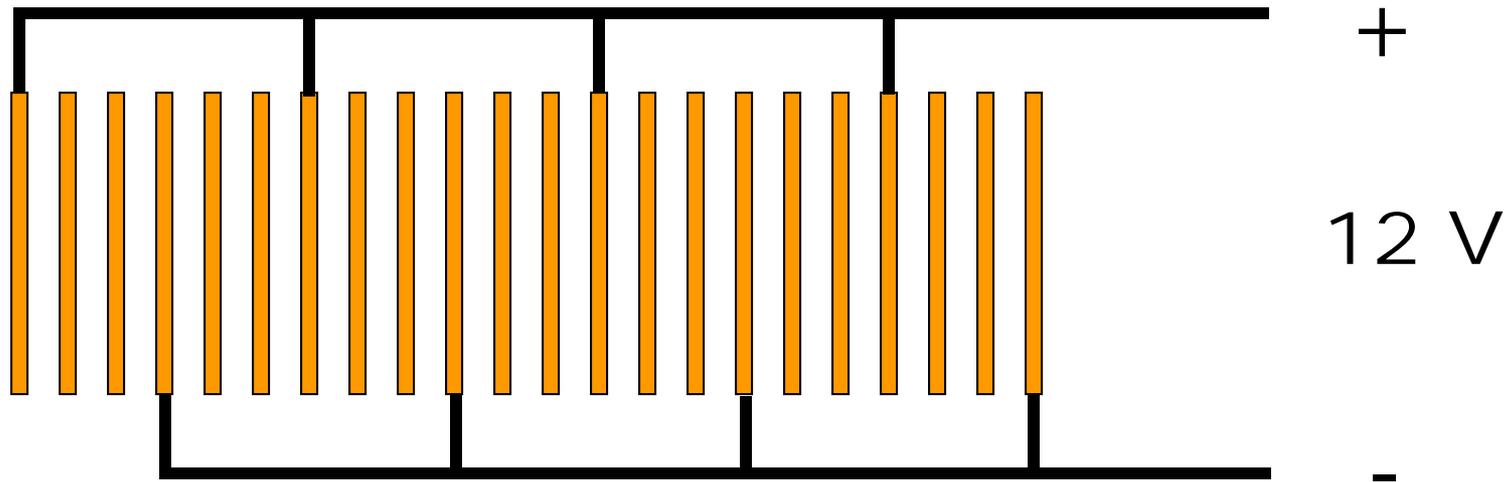


**All Plates Connected**



# Electrolyzer Wiring

## Typical Dry Cell



**Floating plates are equipotential surfaces**

**Charged by electric polarization**



# Denny Klein in the News



[Play](#)

[http://www.youtube.com/watch?v=6Rb\\_rDkwGnU](http://www.youtube.com/watch?v=6Rb_rDkwGnU)



**Nearly Everyone Believes**

**The Energy is from Hydrogen**



# Energy **Not** from Hydrogen

- **Big Anomalies:**
  - Cool Flame that Vaporizes Tungsten
  - Alters Radioactivity
  - Transmutation
- **Laboratory Analysis Find**
  - Little Hydrogen
  - Gaseous Charged Water Clusters



# Source: **Zero-Point Energy**

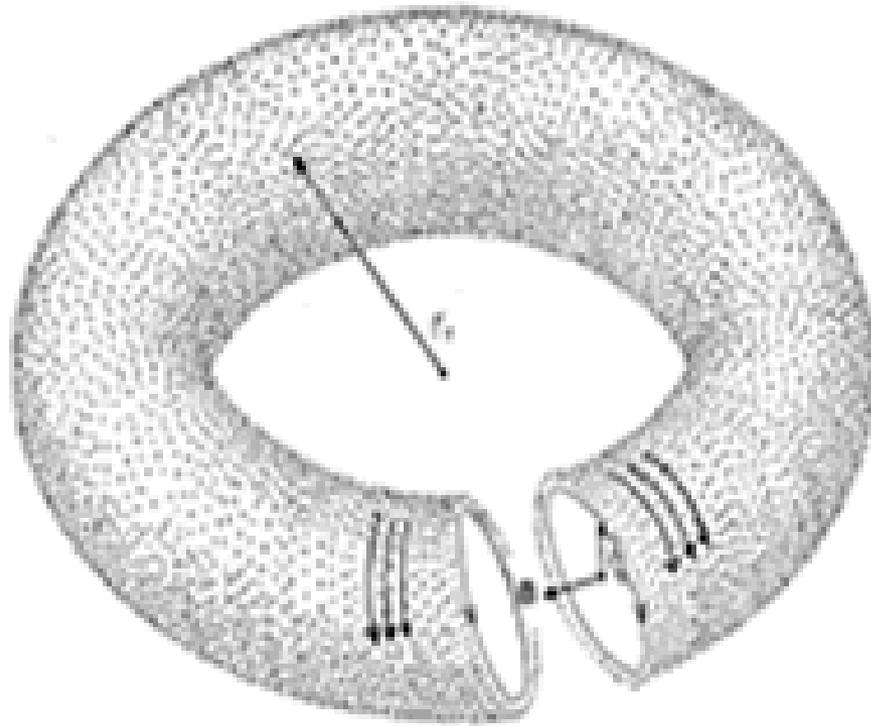
- Charged Water Gas Clusters
- Similar to Plasma Charge Clusters
- Self-Organized Matter-ZPE Conglomerate
- Microscopic Ball Lightning

Ken Shoulders

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



# Ball Lightning Plasmoid

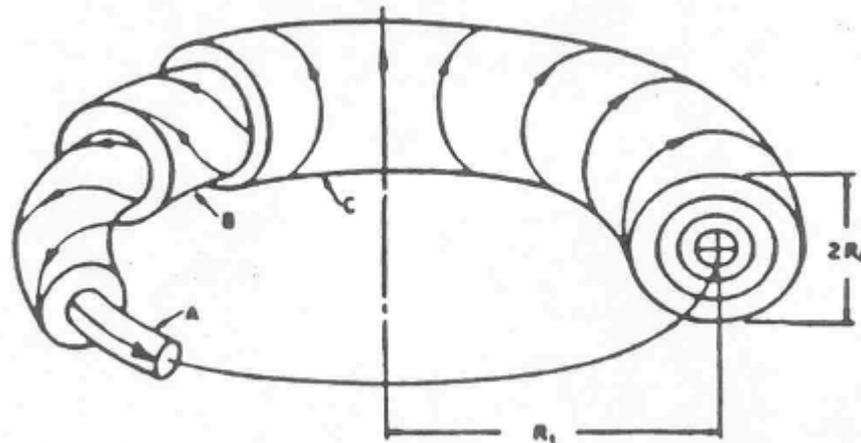


## Electron Spiral Torus

<http://www.electronpowersystems.com/Technology>



# Helical Flow in Plasmoid Vortex Ring Filament

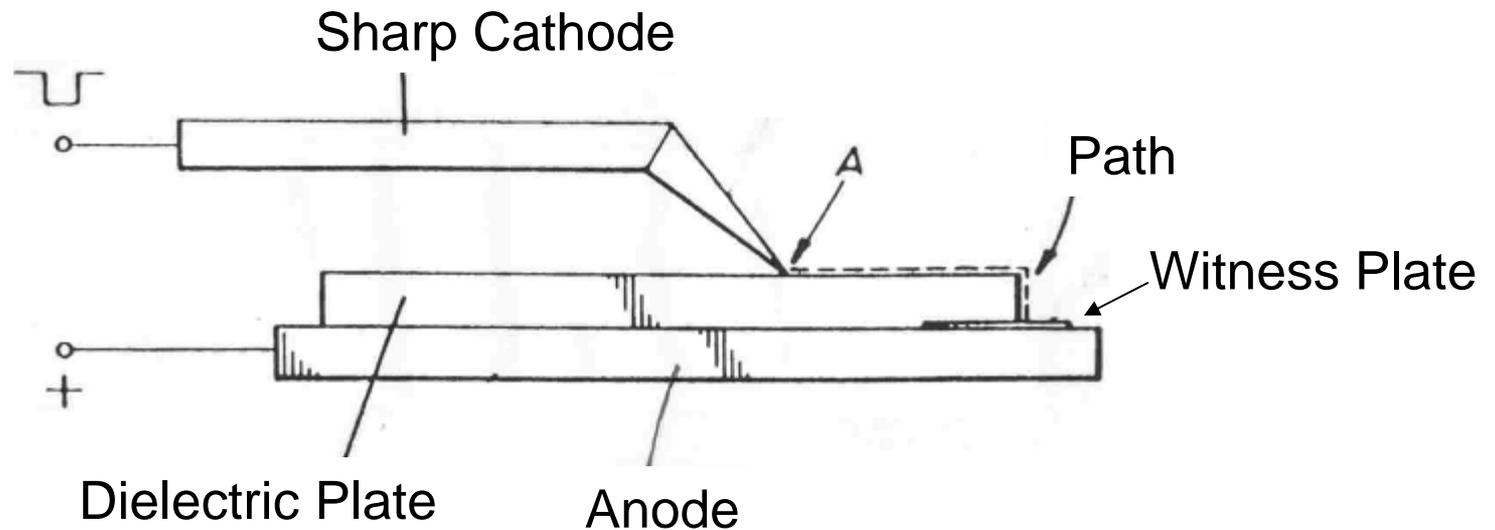


**Force Free Vortex Yields Natural Stability**

Alex, Radar, *Fusion Tech.* 27, 271 (1995)



# Ken Shoulders Launching Charge Cluster



U.S. Patent 5,018,180 (1991)

<http://www.svn.net/krscfs>



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

**$10^{11}$  Electrons**

**$10^6$  Ions**

**e/m Ratio like electron**

**Contains excessive energy**



# Charge Cluster Anomalies

- Electrically Polarized: Adhere to dielectrics
- Clumps into “Necklace Formations”
- Bores holes in ceramics (aluminum oxide)
- Carves Trenches
- Disruption of electron bonds appears like melting
- Element Transmutation
- Radioactivity Reduction

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



# Plasma Charge Clusters & Charged Water Gas Clusters

Exhibit the **Same Anomalies**



# **Brown's Gas is Not Hydrogen Combustion**

**Energy is Stored in a Coherent Form**



# Cool Flame

130 deg C



[Play](#)

<http://www.youtube.com/watch?v=4wYY1V46YDQ>

# Does Not Boil Water



[Play](#)

<http://www.youtube.com/watch?v=wK85QQPAuiU>

# Vaporizes Tungsten



**Melt 6192 deg F**

**Sublimate 10031 deg F**

<http://www.youtube.com/watch?v=NQ0yQKI6M-Q>



# Temperatures

## Tungsten

Melt	6192 F	3422 C
Vaporize	10031 F	5555 C

**Browns Gas**                      **266 F**                      **130 C**

## Torches

Acetylene	5972 F	3300 C
Hydrogen arc	7232 F	4000 C
Cyanogen	8477 F	4525 C
Dicyanacetylene	9009 F	4987 C



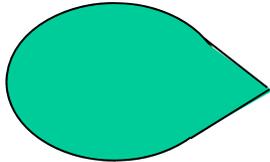
# **Burning Hydrogen Cannot Explain This**

**Another Energetic Gas  
is Present**

**Empirical Evidence**



# Balloon Test



Fill balloon with gas

Wait, (hydrogen leaks away)

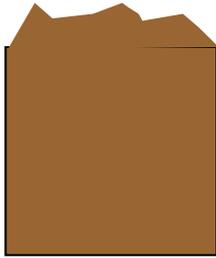
Balloon falls to ground



Still exhibits balloon torch



# Paper Bag Test



Fill paper bag with gas.

Seal bag shut.

Wait 12 hours, hydrogen vents away.

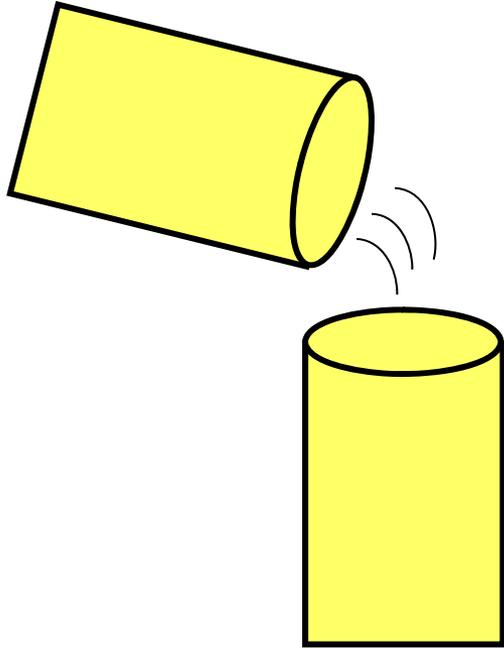
Open bag.

Heavier than air gas remains.

Gas can be ignited.



# Glass Pouring Test



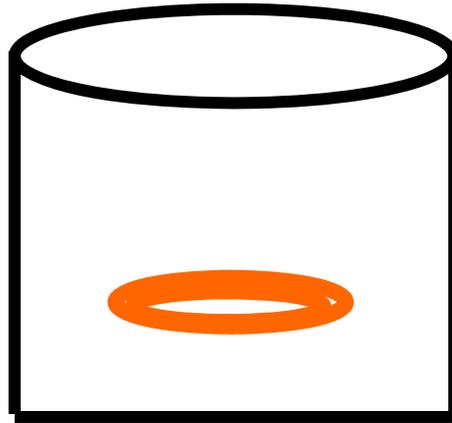
Gas is heavier than air.

It can be poured from one glass to another.

Ignite gas at bottom of glass.

# George Wiseman

## Electrically Expanded Water



**Burns downward in an imploding ring**

[http://pesn.com/2010/09/27/9501707\\_HHOi\\_under\\_pressure\\_into\\_fuel\\_rail\\_running\\_vehicles\\_on\\_water\\_and\\_air/](http://pesn.com/2010/09/27/9501707_HHOi_under_pressure_into_fuel_rail_running_vehicles_on_water_and_air/)



# Action Item: Chemistry Departments

- Create Brown's Gas
- Vent Away the Hydrogen
- Does Remaining Gas "Burn?"
- What is it?



# Brown's Gas Measurements

## Chris Eckman

### Electron Density (EDMA)

- Not Diatomic Hydrogen
- Not Monoatomic Hydrogen
- Gaseous Water with Excess Electrons

### Thermal Imaging (InfraCAM SD)

- Flame Temperature 130 C (266 F)

*Extraordinary Technology*, vol. 2(6), pp 15-25, 2008



# Brown's Gas Information

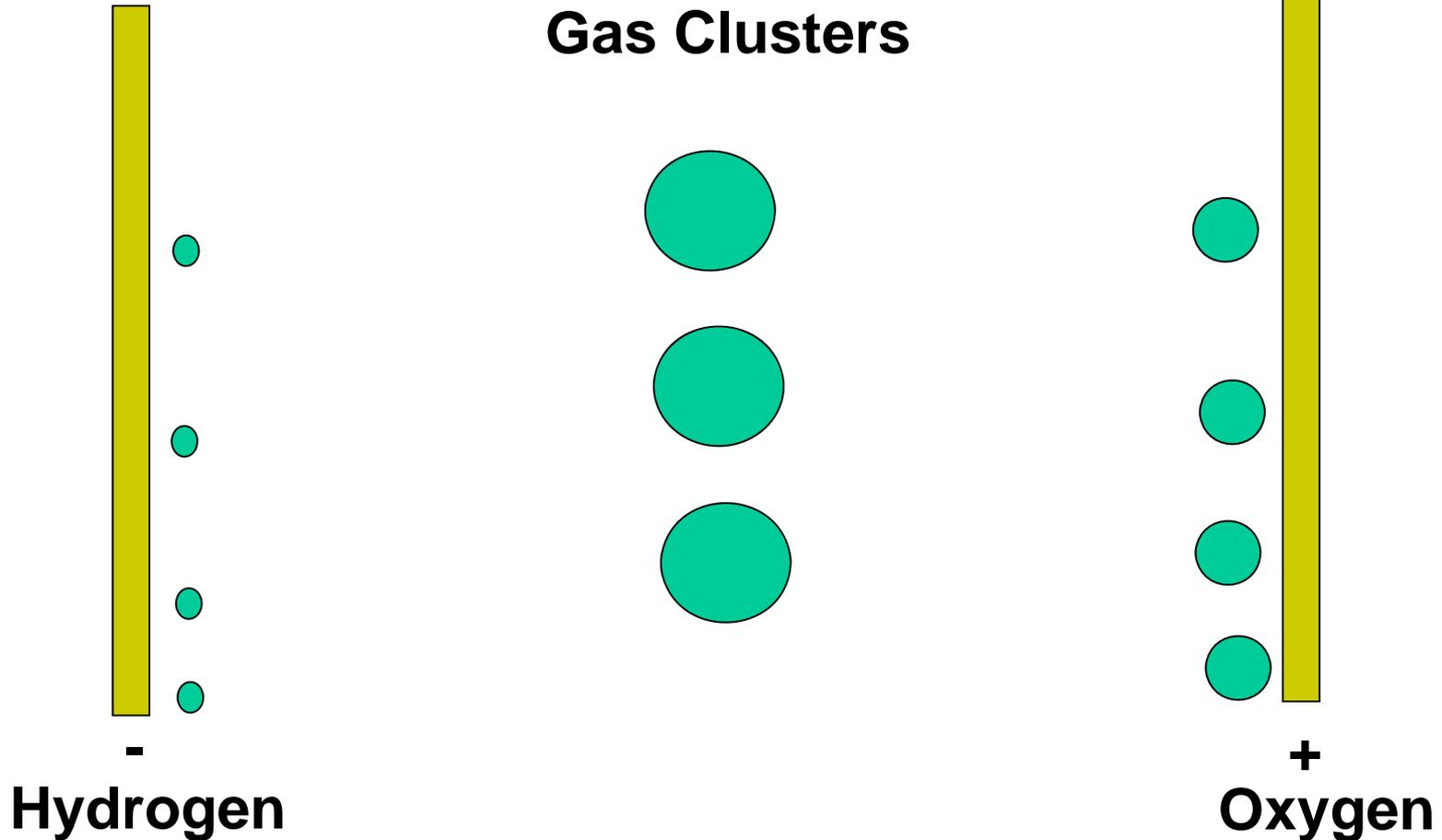


<http://eagle-research.com>



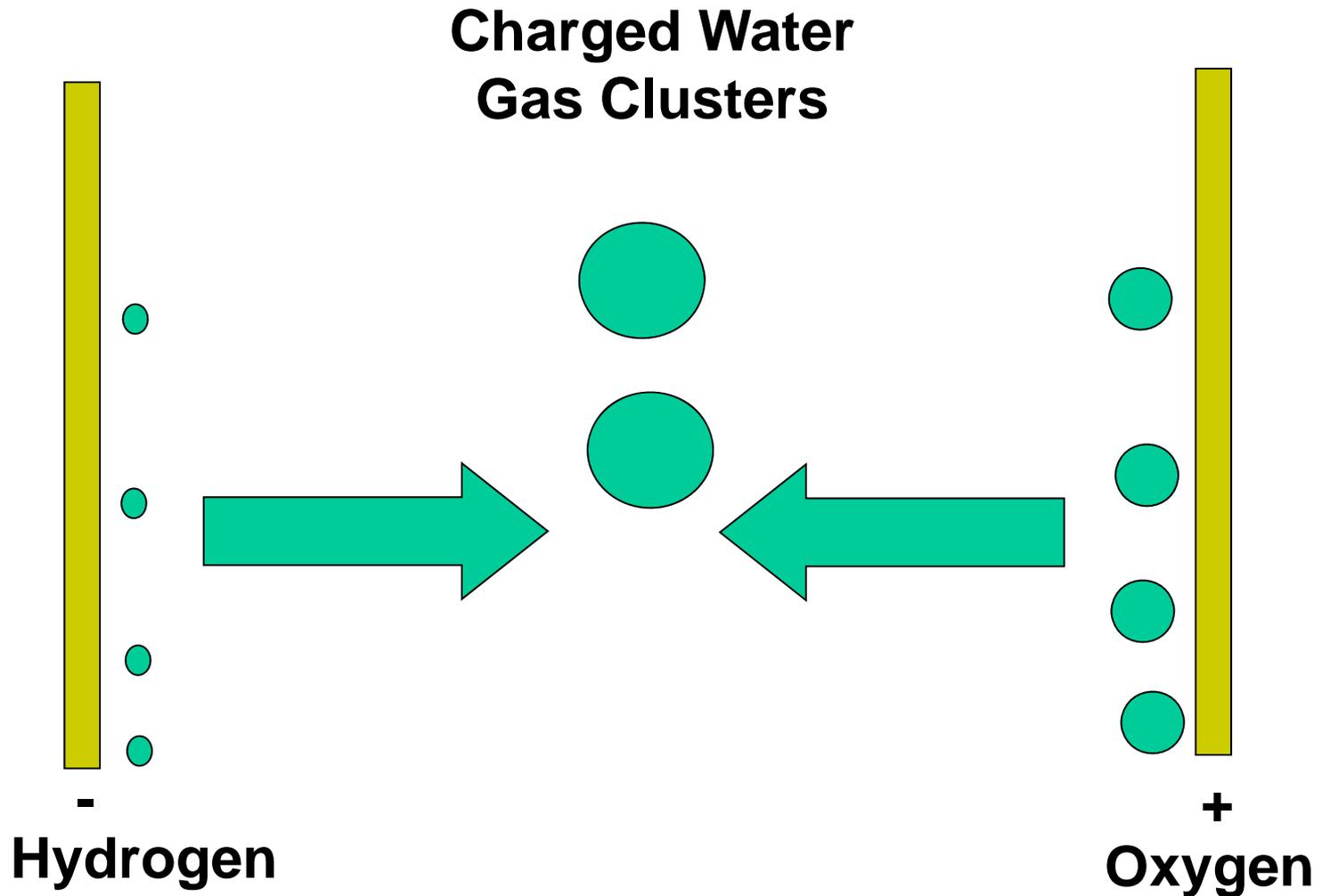
# Wiseman: Middle Bubbles

**Charged Water  
Gas Clusters**



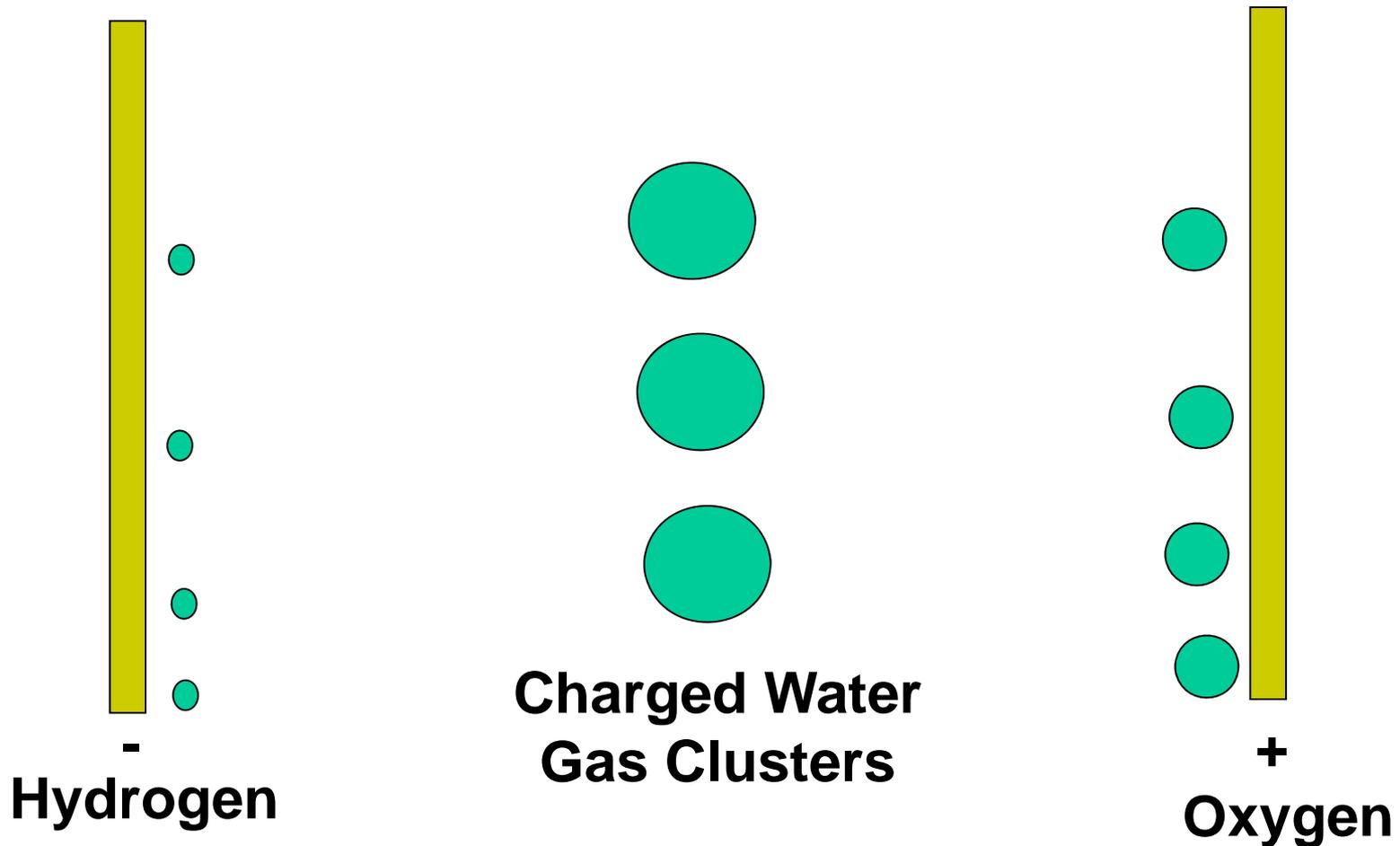


# Bob Boyce: Two Colliding Jets





# Suatt & Gourley: Harvest Middle Bubbles





# SG Gas

Extract Pure Water Gas



Ted Suartt

Rob Gourley



Ice Infused with SG Gas

Can store gas under pressure

Rhodes and Brown's gas are "dirty cocktails" with mixtures of gases including  $H_2$  or  $O_2$

<http://www.wateriontechnologies.com>



# Brown's Gas Anomalies

- Adheres to matter (electrically polarized)
- Electric shock
- Implodes instead of explodes
- Cool flame
- Sublimates tungsten
- Cuts cleanly through wood, metal, ceramics
- Claims of neutralizing radioactive waste
- Claims of element transmutation

Todd Knudston, <http://www.amasci.com/freenrg/hydroxy.html>

George Wiseman, <http://eagle-research.com>



# Vernon Roth



**Produced Element Transmutation  
Within His Electrolysis Cell**

[http://peswiki.com/index.php/OS:Vernon\\_Roth's\\_Alchemical\\_Hydrogen](http://peswiki.com/index.php/OS:Vernon_Roth's_Alchemical_Hydrogen)



# Mark LeClair Explains

**How Water Cavitation**

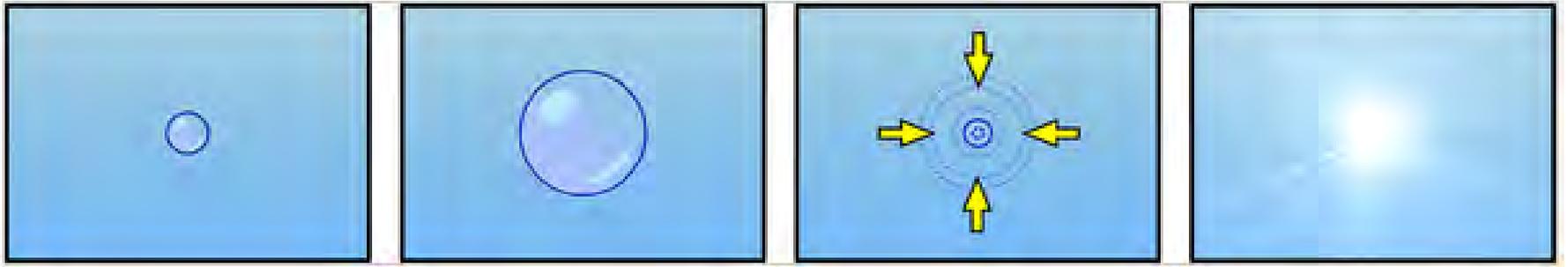
**Creates Microscopic Craters**

**Carves Trenches**

**Transmutes Elements**

**Manifests Excess Energy**

# Sonoluminescence



**Water + Argon or Xenon**

**Ultrasonic Excitation**

**Blue Light: If Thermal  $> 10,000$  K**

**Abrupt Scalar Compression**

**ZPE Coherence**

<http://en.wikipedia.org/wiki/Sonoluminescence>



# Torus Cavitation Bubble



**Forms Near Surface**

<http://nanospireinc.com/>



# Collapsing Cavitation Bubble

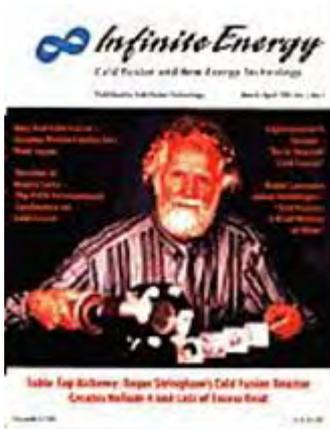


**Launches Reentrant Jet**

<http://nanospireinc.com/>



# Sonofusion



## Roger Stringham

PIEZO &  
BUBBLES  
IN D<sub>2</sub>O

PLASMA  
INTO  
JET PLASMA

TARGET  
IMPLANT

e<sup>-</sup> + D<sup>+</sup> → D  
& DD FUSION



PIEZO &  
ACOUSTIC  
WAVE

BUBBLE  
GROWTH &  
COLLAPSE

PLASMA  
JET PINCH

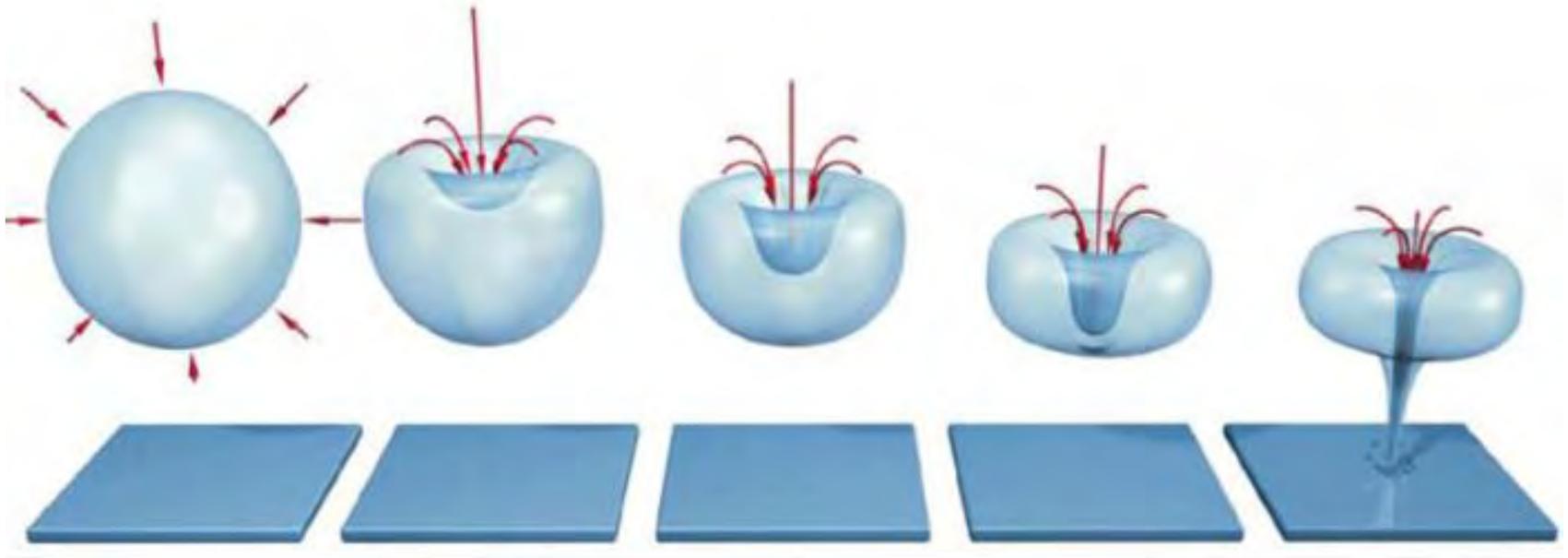
JET PLASMA  
IMPLANTED  
D<sup>+</sup> & e<sup>-</sup>

DD FUSION  
HEAT PULSE

<http://sonofusionjets.com/>



# Reentrant Jet Formation

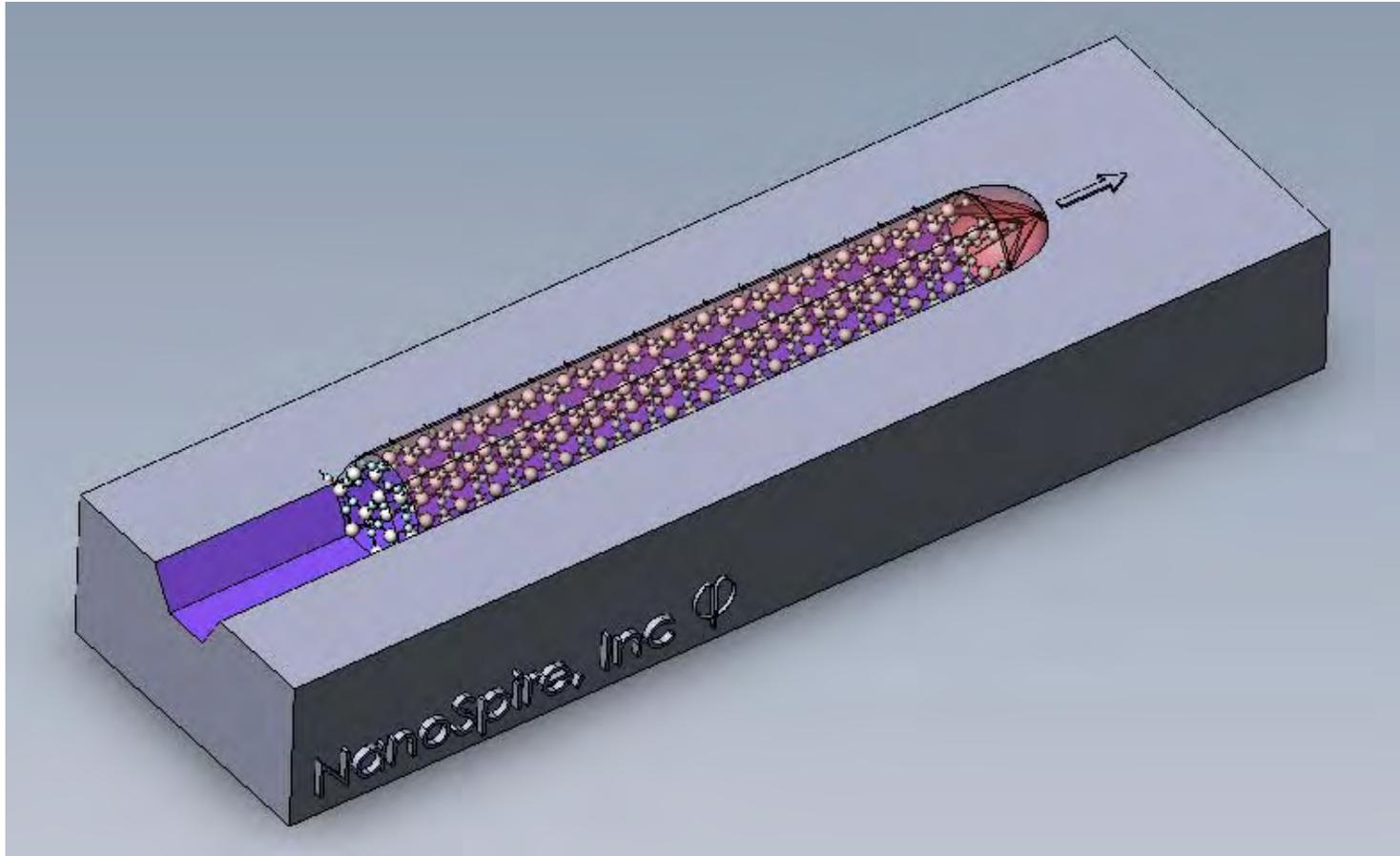


**Internal Pressure: Over 300000 psi**

**New Solid State: Macro-ionic Water Crystal**



# Reentrant Jet Water Crystal



Plasma Bow Shock Wave: **ZPE Coherence**

Mark LeClair <http://nanospireinc.com/>



# Mark LeClair Patents

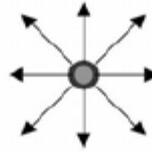
**“Method and Apparatus for the Controlled Formation of Cavitation Bubbles”**

<a href="http://www.freepatentsonline.com/6932914.pdf">http://www.freepatentsonline.com/6932914.pdf</a>	Aug 2005
<a href="http://www.freepatentsonline.com/6960307.pdf">http://www.freepatentsonline.com/6960307.pdf</a>	Nov 2005
<a href="http://www.freepatentsonline.com/7297288.pdf">http://www.freepatentsonline.com/7297288.pdf</a>	Nov 2007
<a href="http://www.freepatentsonline.com/7517430.pdf">http://www.freepatentsonline.com/7517430.pdf</a>	Apr 2009

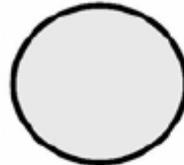


# Controlled Cavitation

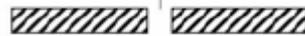
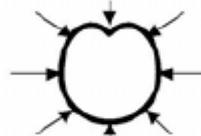
**Laser Strike**



**Expanding Bubble**



**Asymmetric Collapse**



**Torus Reentrant Jet**



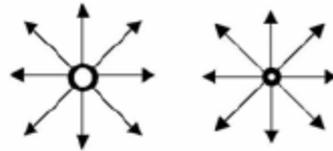
**Accelerates through  
hole**



**Mark LeClair, US Patents 6,960,307 and 7,517,430**

# Target Cavitation

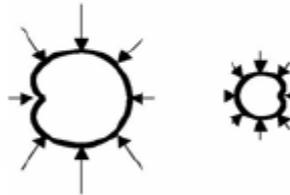
Two Laser Pulses  
Out of phase



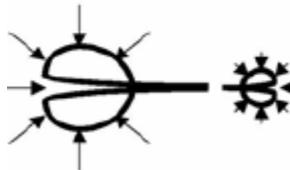
Expanding Bubbles



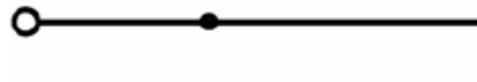
Asymmetric Collapse



Torus Reentrant Jets

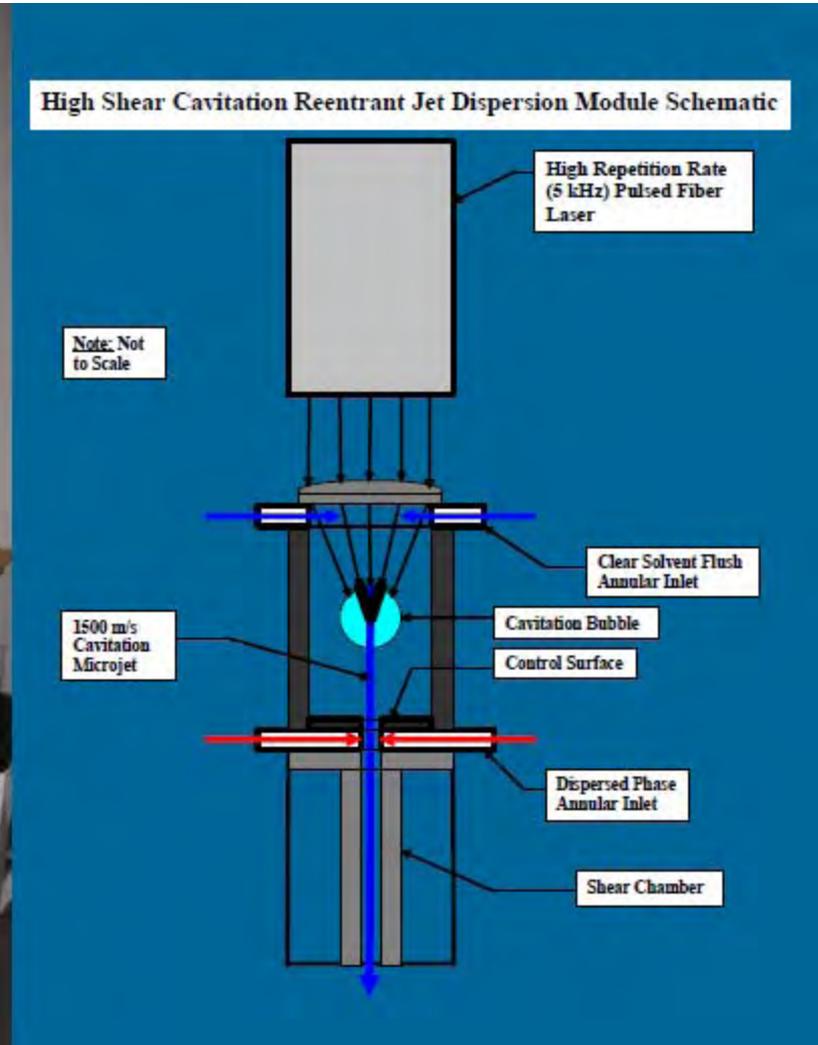


Large Jet Targets  
Smaller Bubble



Mark LeClair, US Patents 6,932,914 and 7,297,288

# LeClair Controls Reentrant Jet



<http://nanospireinc.com/>

# Pistol Shrimp



[Play](#)

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

# Propeller Cavitation



<http://www.ionizationx.com/index.php/topic,1239.5.html>

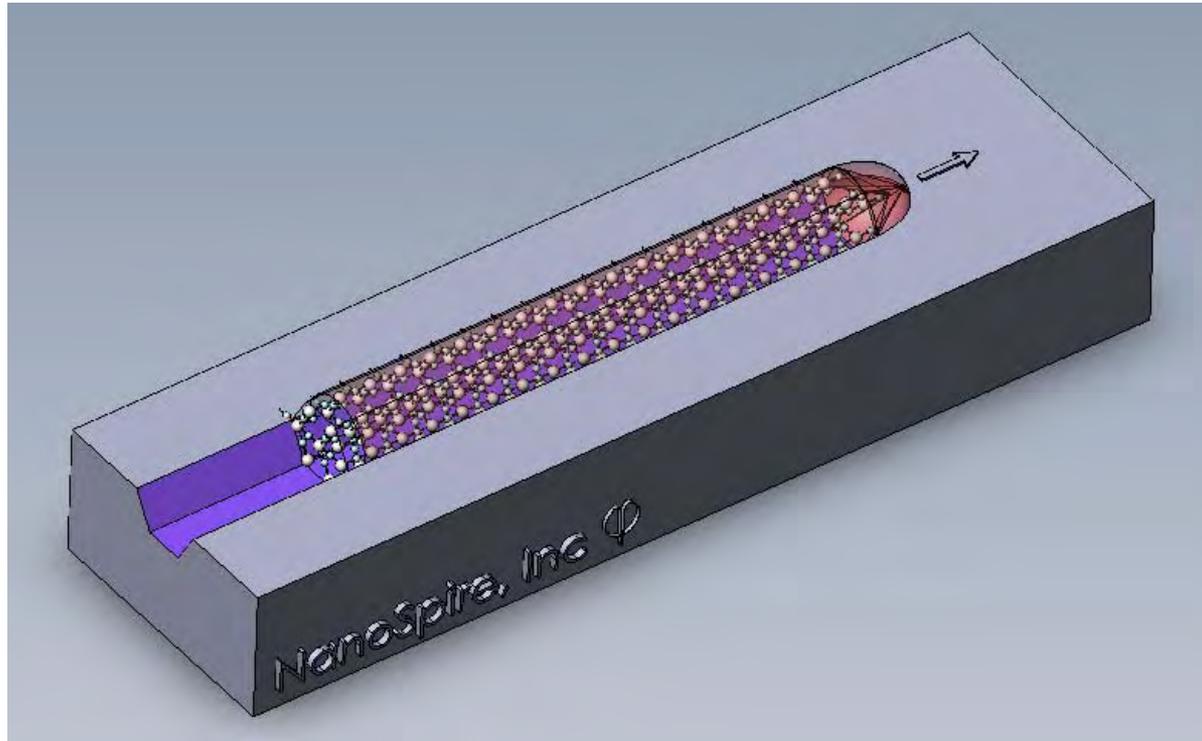
# Cavitation Erosion



<http://www.ionizationx.com/index.php/topic,1239.5.html>



# Reentrant Jet Water Crystal



**Hexagonal Form**

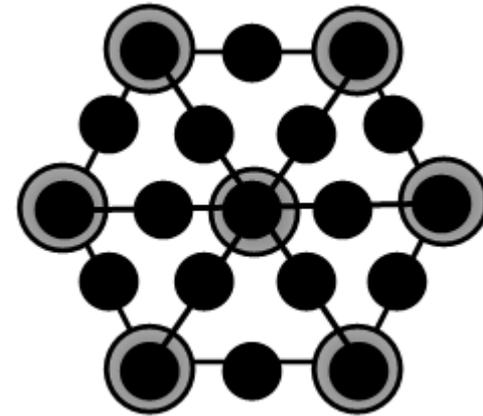
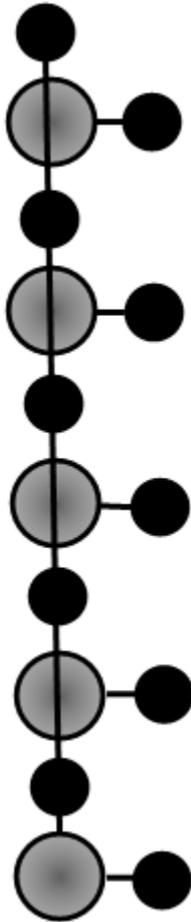
**Linear Axis**

Mark LeClair <http://nanospireinc.com/>



# Water Crystal Structure

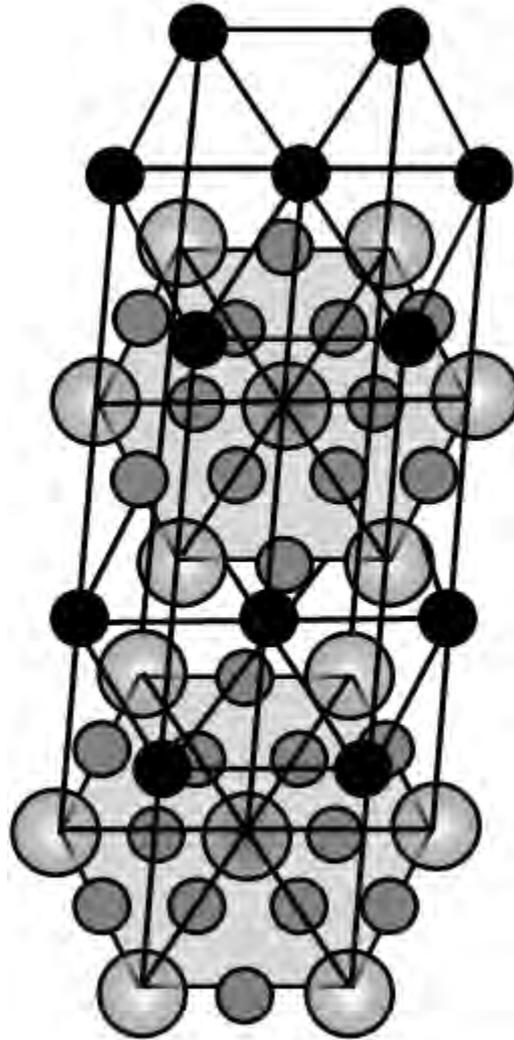
**Down Axis:  
Covalent Bonds**



**Across Plane:  
Hydrogen Bonds**



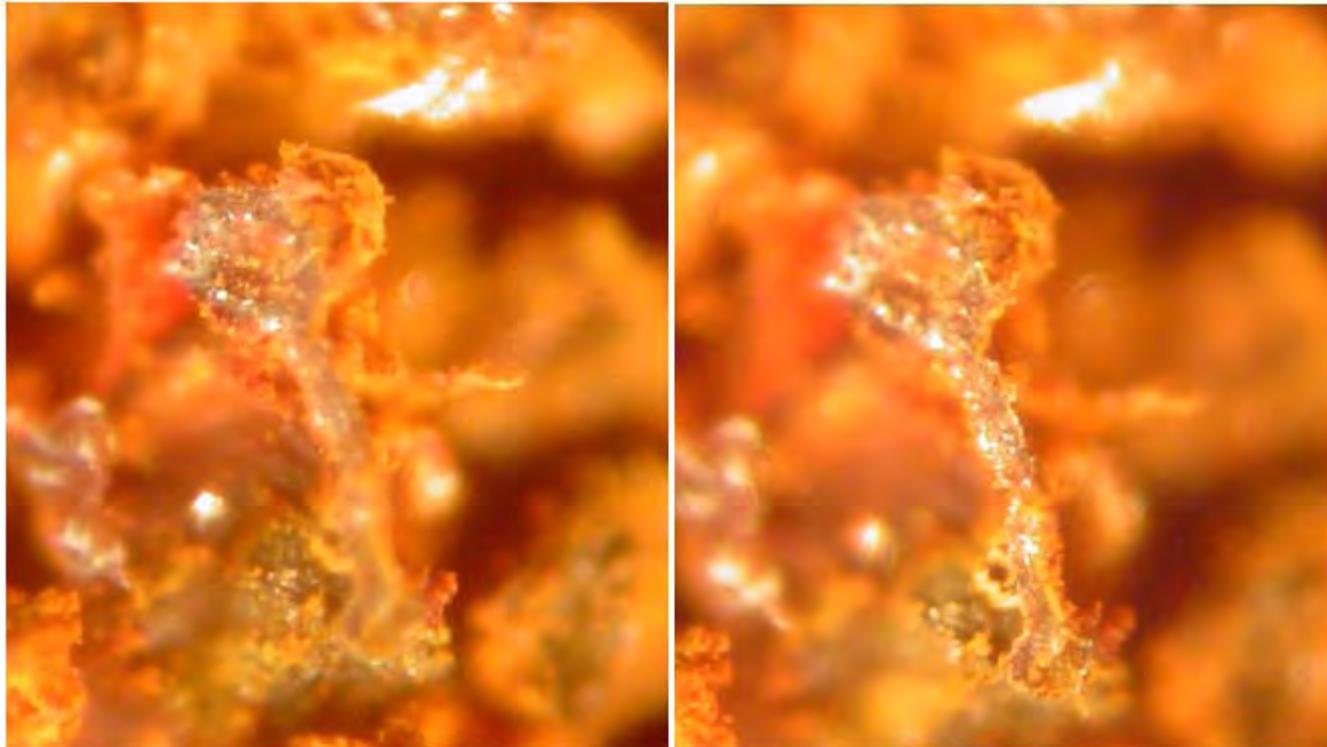
# Water Crystal Structure 3D



Mark LeClair <http://nanospireinc.com/>



# Macroionic Water Crystal Imprint



← 3 mm →

Mark LeClair <http://nanospireinc.com/>



# Reentrant Jet Characteristics

- Velocity: 1500 m/s                      Up to Mach 4
- Pressure: > 100,000 psi
- Water Crystal
  - Axis: Linear HOHOHOHO...
  - Shape: Trigonal, Hexagonal
  - Head: Positively Charged
  - Tail: Negatively Charged
- Head: Plasma Bow Shock
  - Creates Craters
  - Carves Trenches
  - Self-Accelerates

**Shoulders' EVO  
Does Likewise**

# LeClair Effect



**Bow Shock – ZPE Coherence**

**Like Shoulder's EVO**

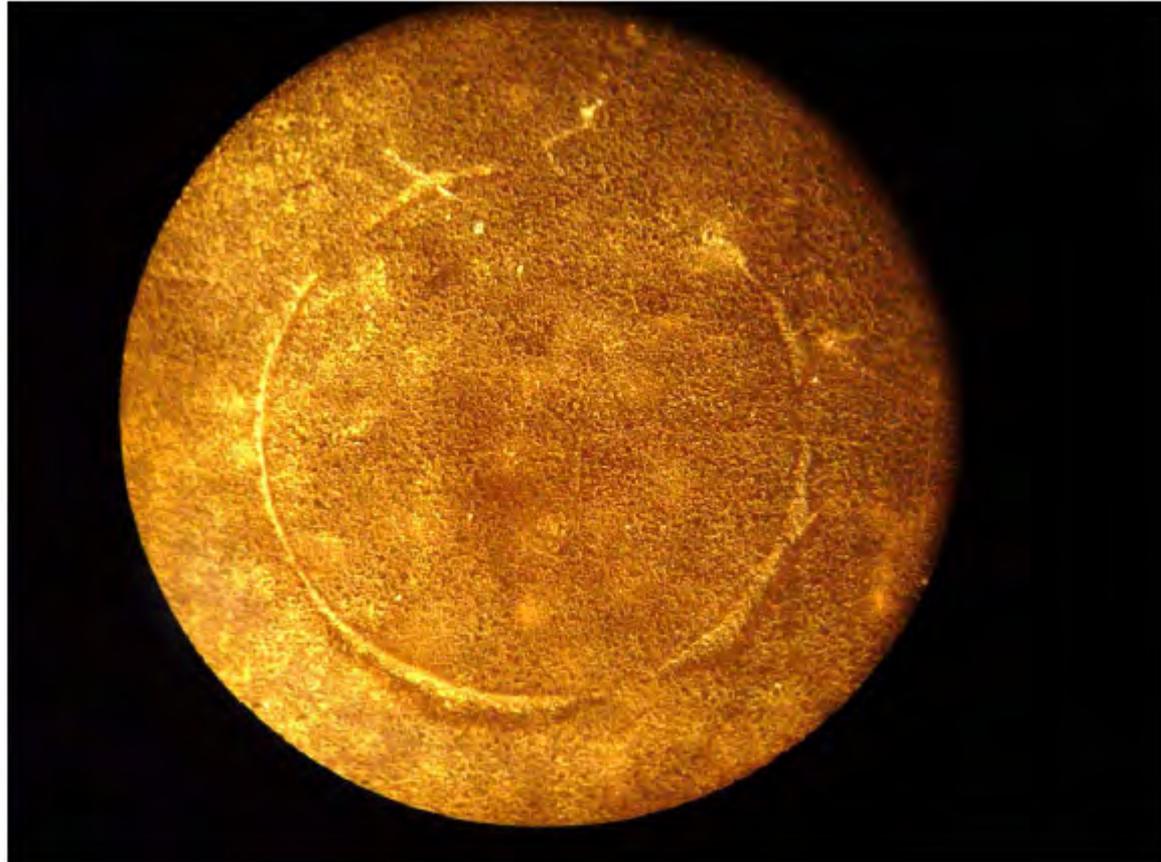
**Manifests Self-Acceleration**

**Causes Nuclear Reactions**



# Water Crystal Carves Trenches

## Aluminum Oxide



← 2 mm →

Mark LeClair <http://nanospireinc.com/>

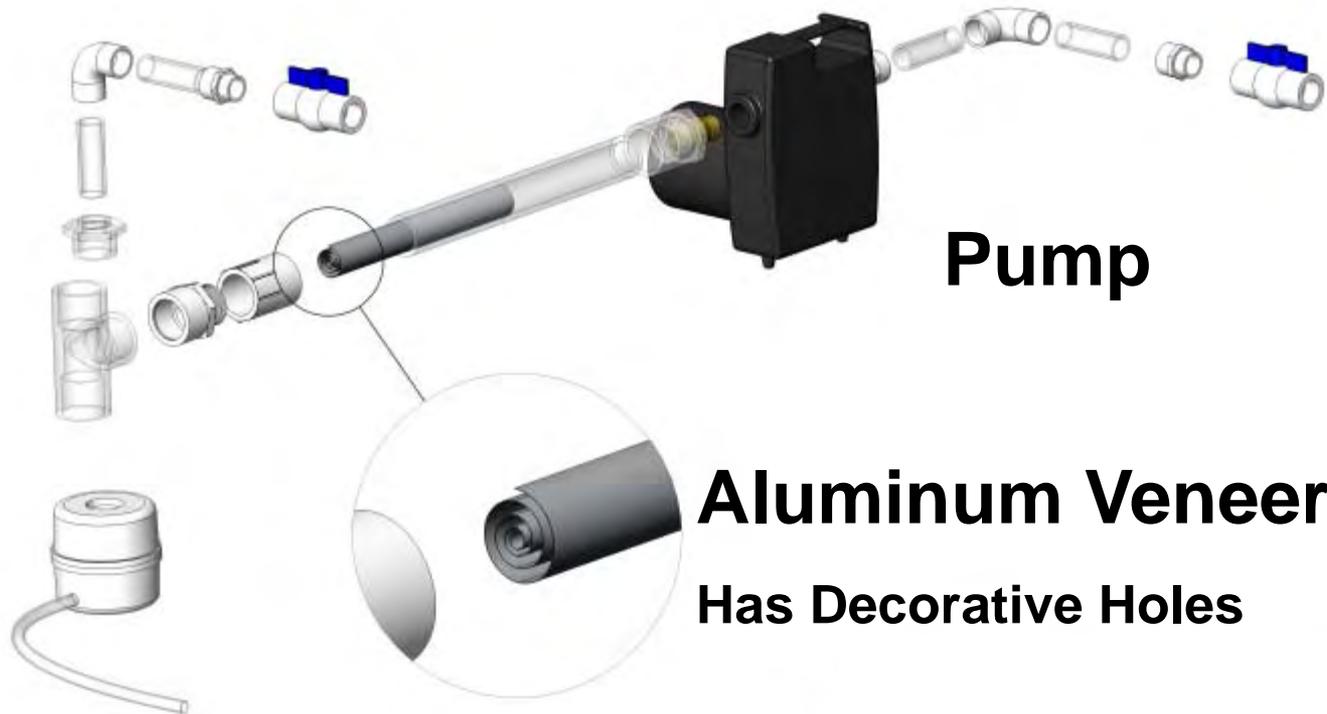


**Mark LeClair's**

**Transmutation Experiment**



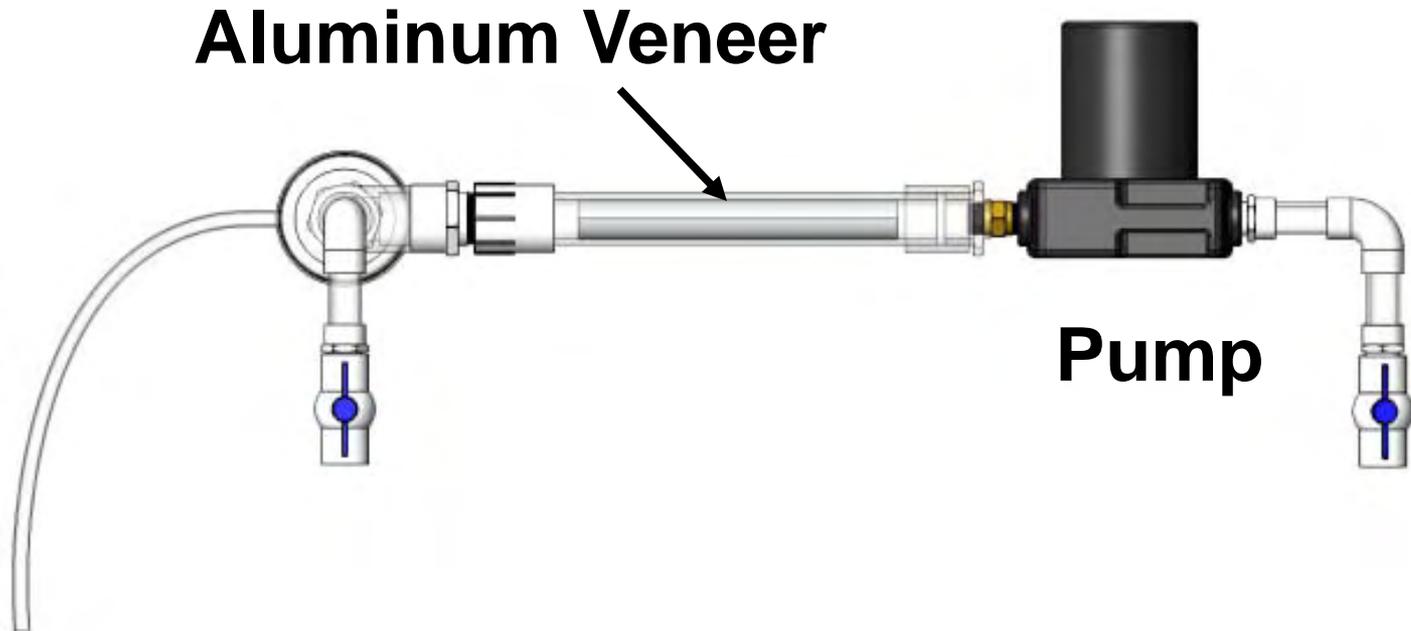
# Assembly Components



Mark LeClair <http://nanospireinc.com/>

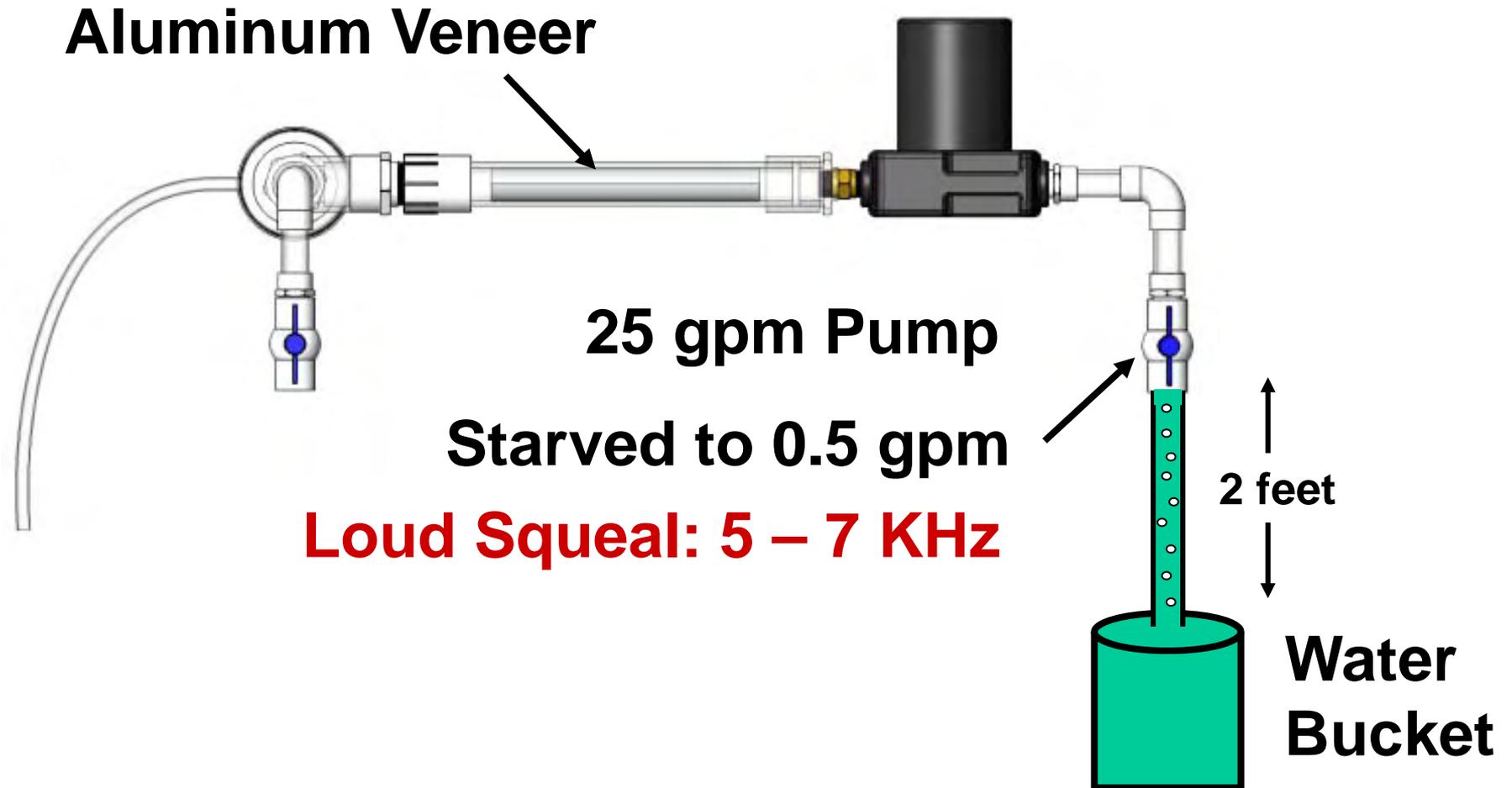


# Assembled Apparatus



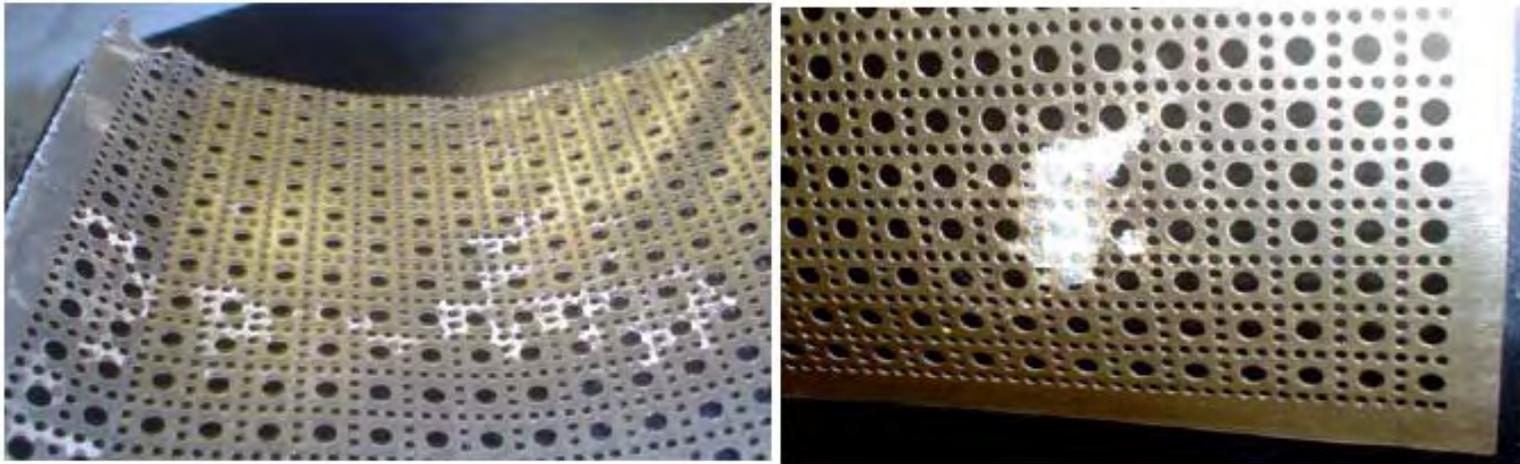
Mark LeClair <http://nanospireinc.com/>

# Experimental Setup



Mark LeClair <http://nanospireinc.com/>

# Aluminum Veneer

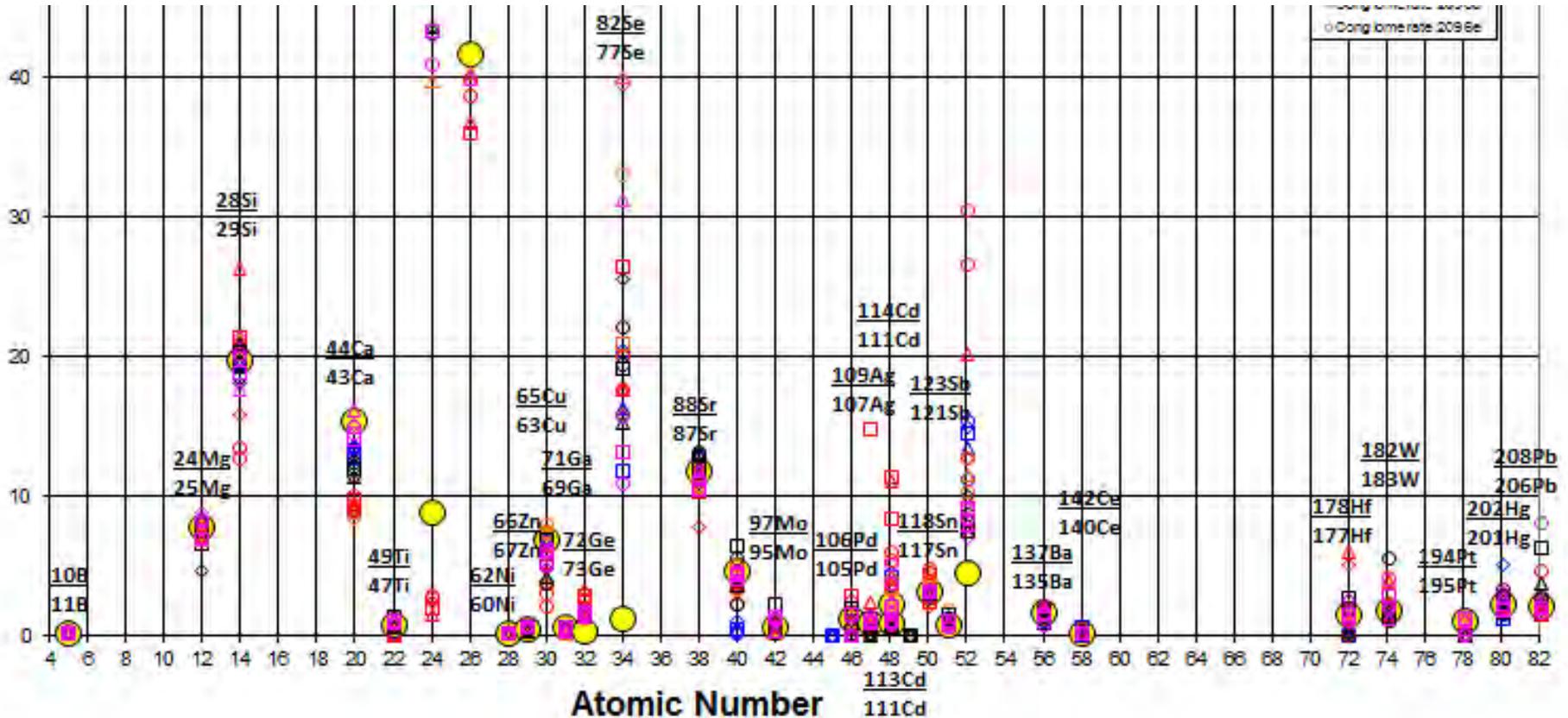


**Transmuted Elements on Surface**

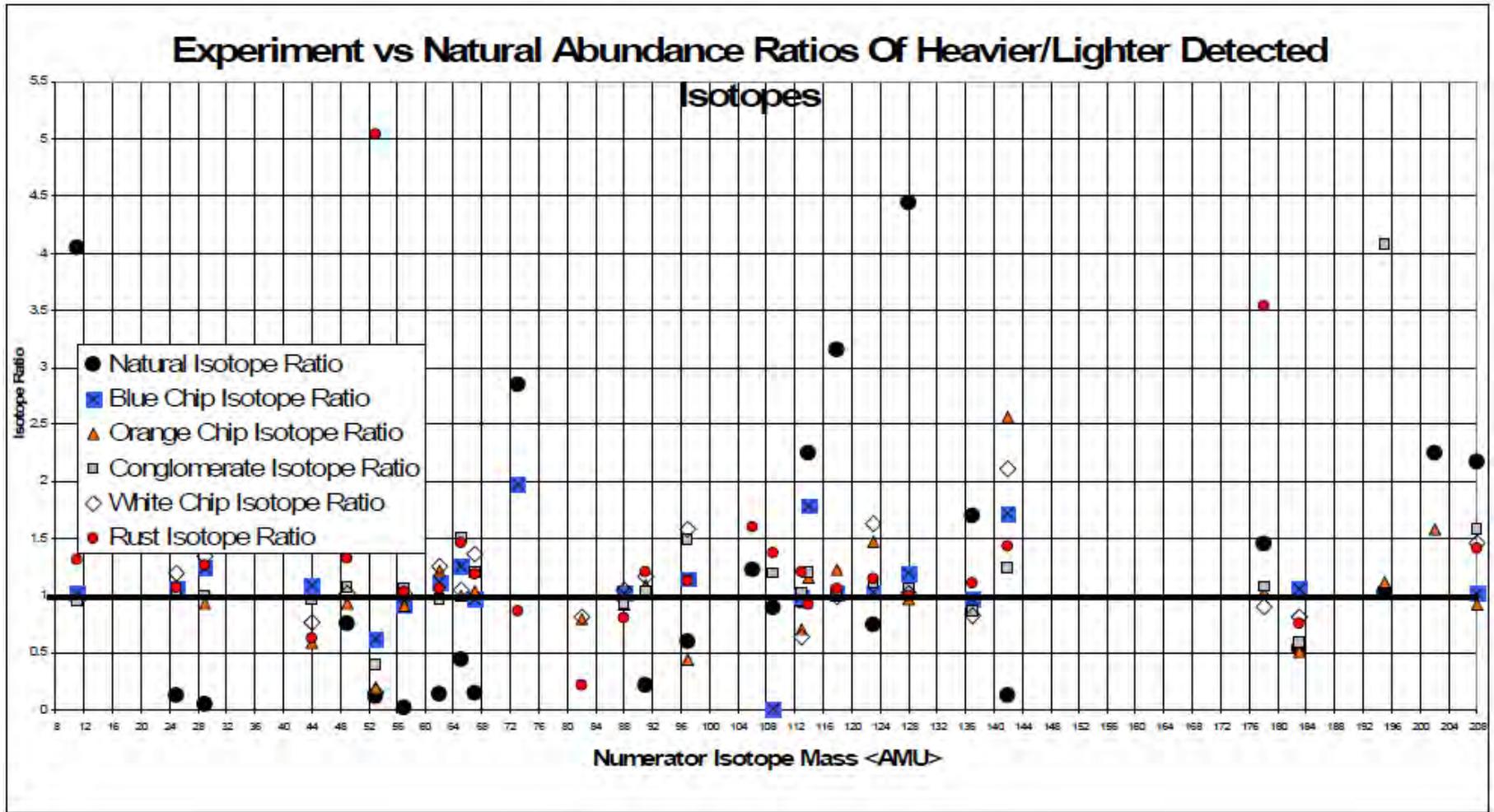
**Carbon in Diamond Form (white blotch)**

**Mark LeClair** <http://nanospireinc.com/>

# Nucleosynthesis



# Rare Isotopes



Multiples of Helium Nucleus



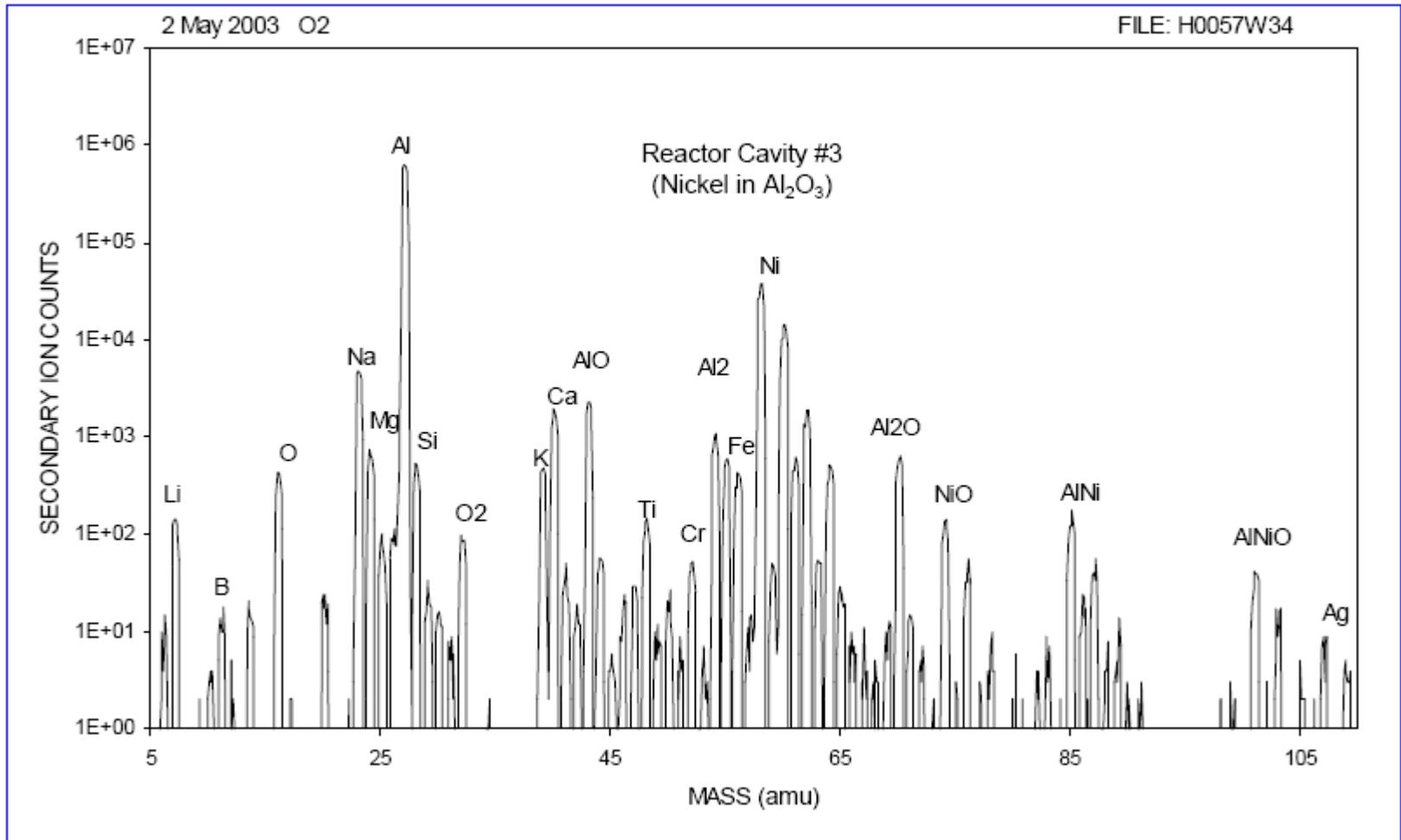
# EVO & Plasmoid Strikes

Also Exhibit Transmuted Isotopes  
across the Periodic Table

Akin to Nucleosynthesis in a  
Supernova



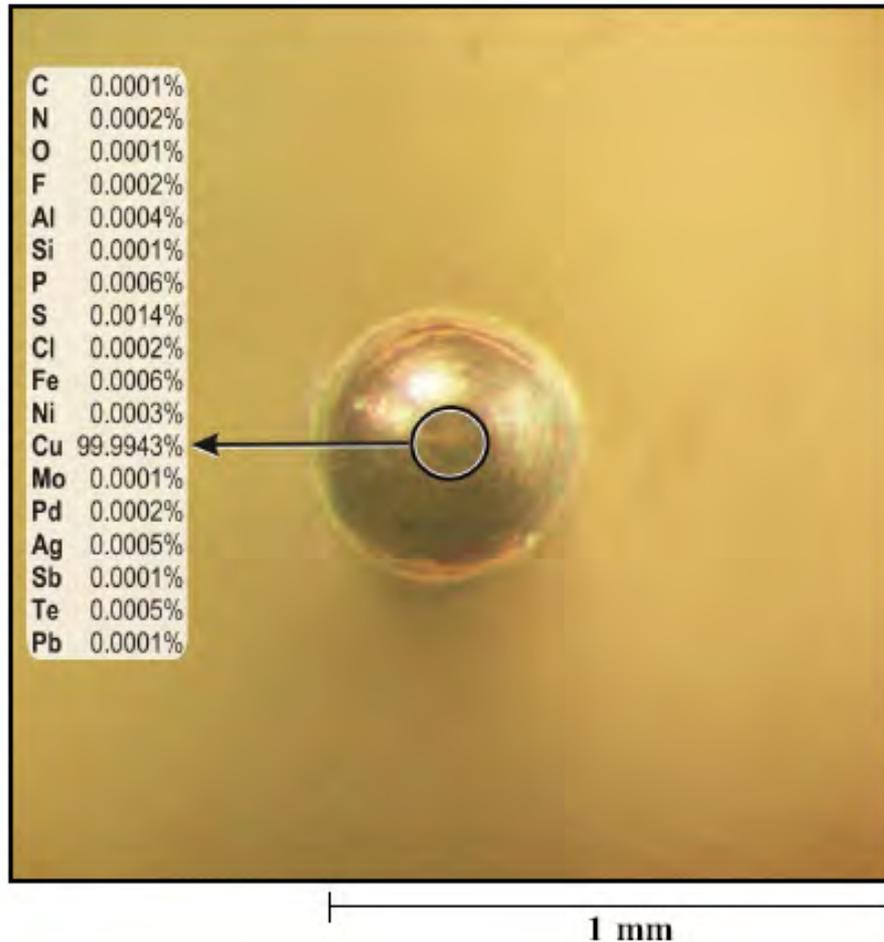
# Low Voltage Transmutation



Ken Shoulders

<http://www.svn.net/krcsfs/ICCF-10+Low+Voltage+Nuclear+Transmutation.pdf>

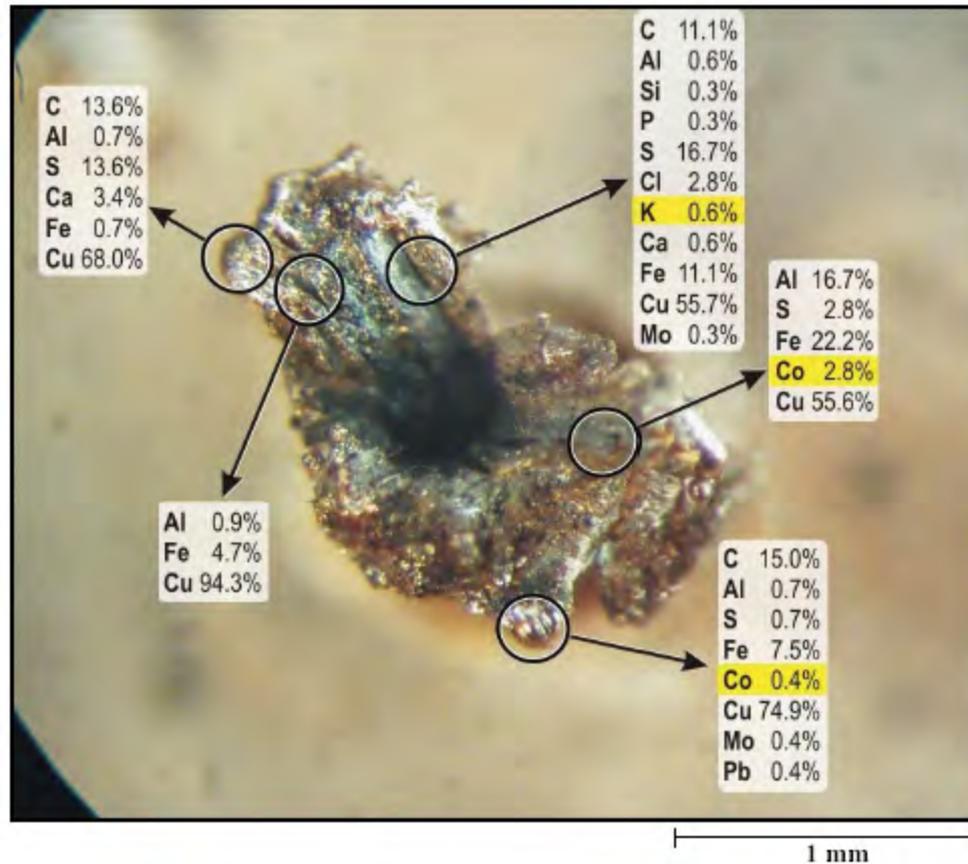
# Nucleosynthesis



Adamenko, et al.

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

# Nucleosynthesis



Adamenko, et al.

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

# Annual Conferences in Russia



## The 16th Russian Conference on Cold Nuclear Transmutation and Ball-Lightning (RCCNT&BL-16)

*Dagomys, Sochi, Russia*

*June 1 - June 8, 2009*

RCCNT&BL-16 INVITATION [Download](#)

[PROGRAM COMMITTEE of RCCNT&BL-16](#)

[ORGANIZING COMMITTEE of RCCNT&BL-16](#)

[RESOLUTION of RCCNT&BL-16](#)

[PROGRAM & ABSTRACTS of RCCNT&BL-16](#)

<http://www.iscmns.org/rccnt16/>



# Action Item: Physics Departments

- Repeat LeClair's Transmutation Experiment
- Measure New Isotopes
- Ask Colleagues to Replicate



# How Does Cavitation Relate to Brown's Gas?



**Collapsing Bubble Launches  
Reentrant Jet**



# Reentrant Jet Water Crystal

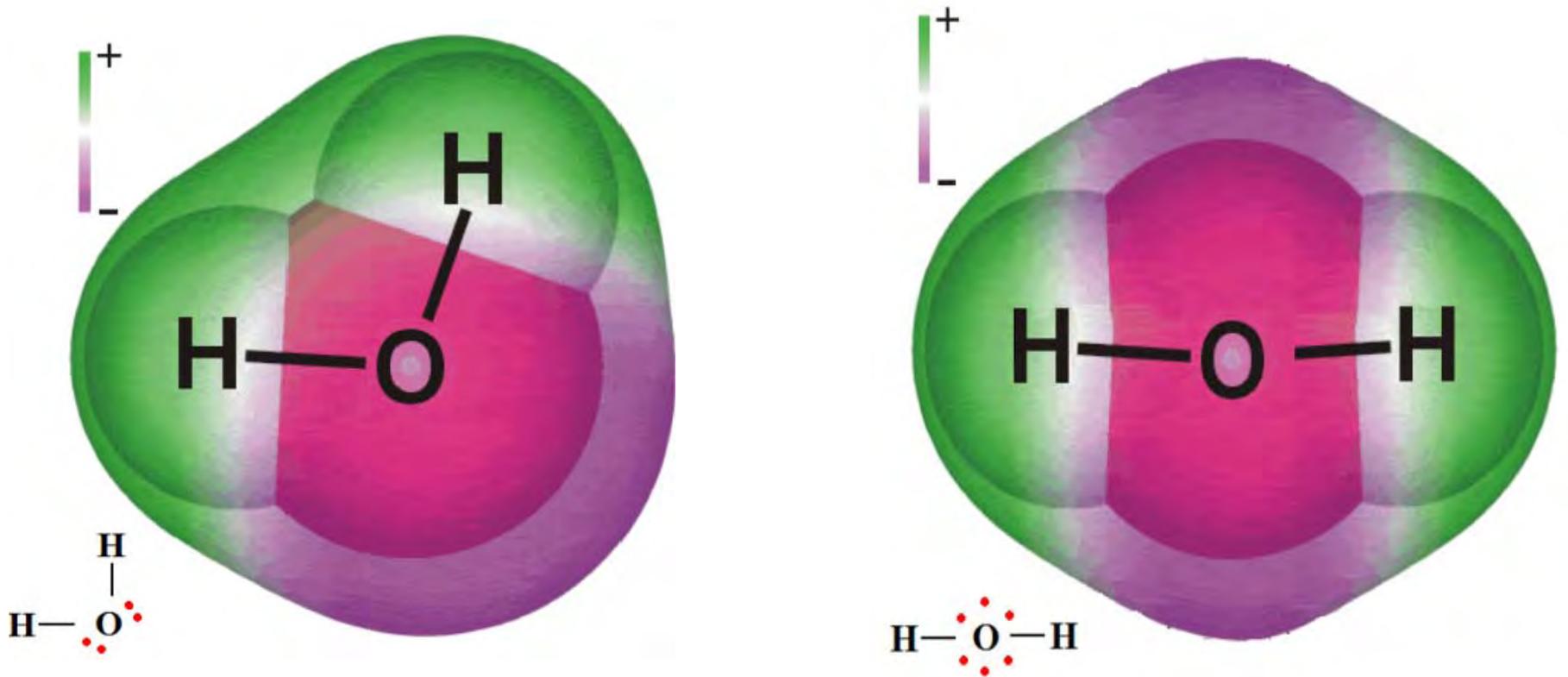


**Axis Linear Chains**

**...HOHOHOHOHOHO...**

# Chris Eckman

Plasma Orbital Expansion of the Electrons in Water

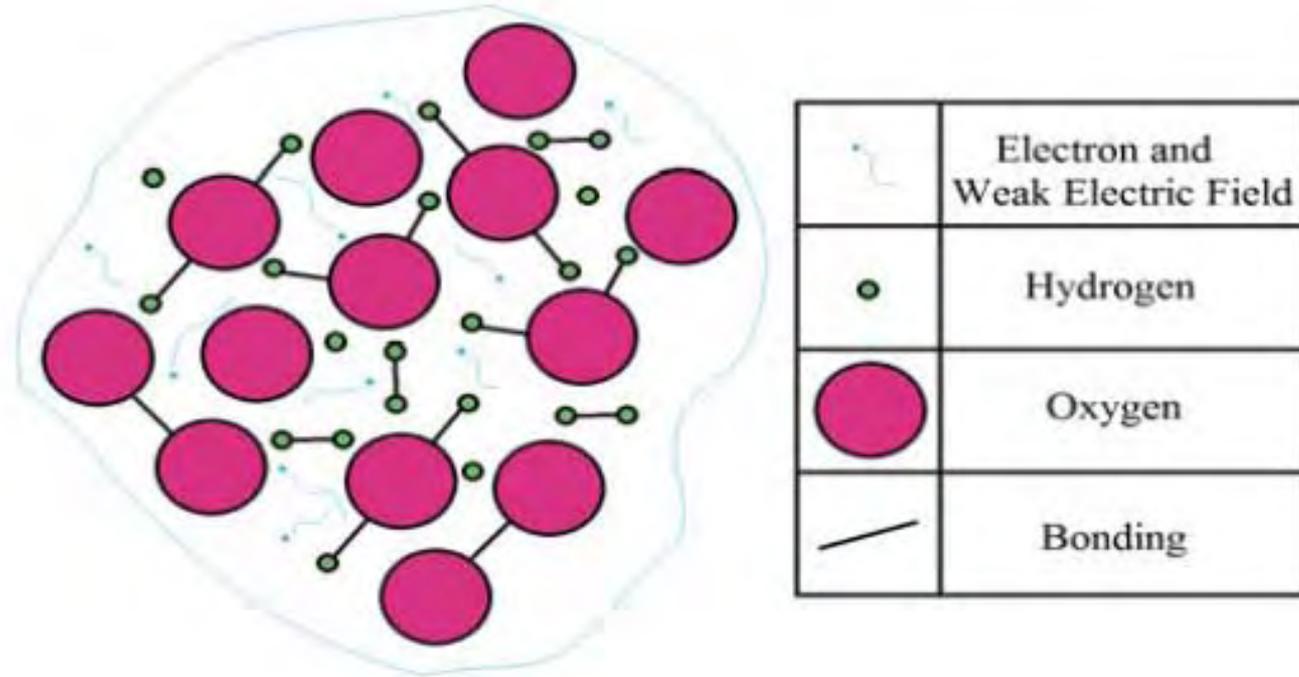


Linear Water Isomer with Extra Electrons

Proc. NPA, vol. 6, no. 2 (2010)

# Chris Eckman

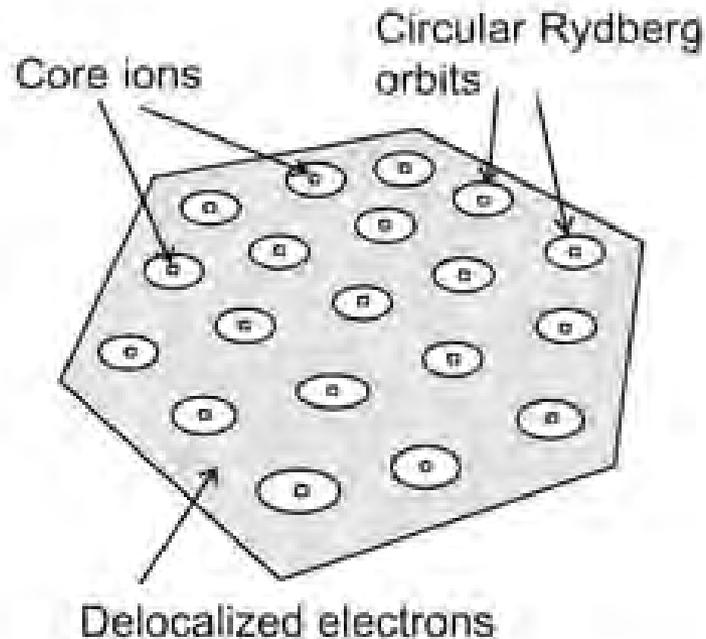
## Plasma Orbital Expansion of the Electrons in Water



Linear Water Stable in Rydberg Cluster

# Rydberg Matter

## Meta-stable Cold Plasma



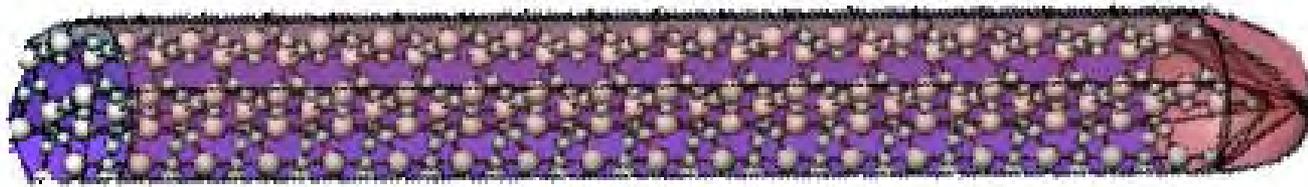
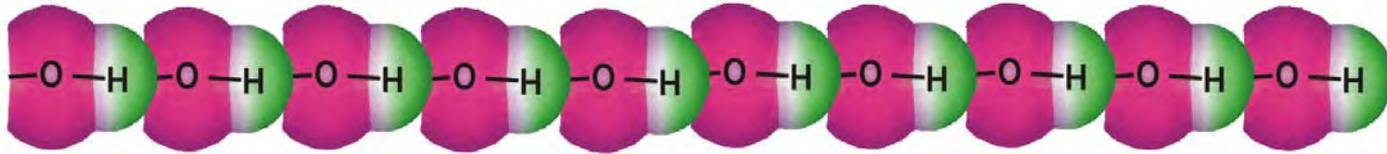
**D orbital electrons - high energy state**

[http://en.wikipedia.org/wiki/Rydberg\\_matter](http://en.wikipedia.org/wiki/Rydberg_matter)



# Linear Chains

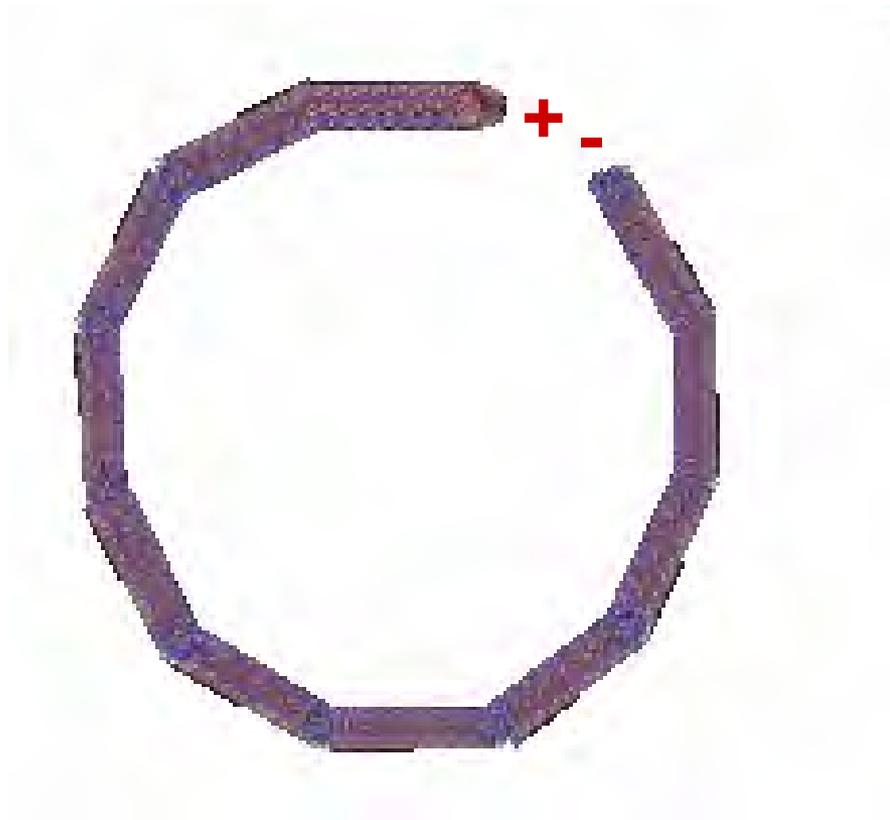
## Along Axis of Water Crystal



**How can its energy be captured?**



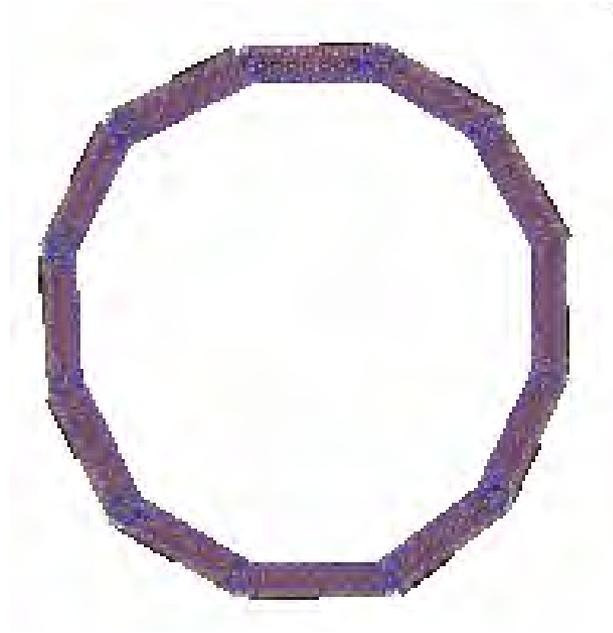
# Long Water Crystal Can Close Into Loop



**Positive Head Attaches to Negative Tail**



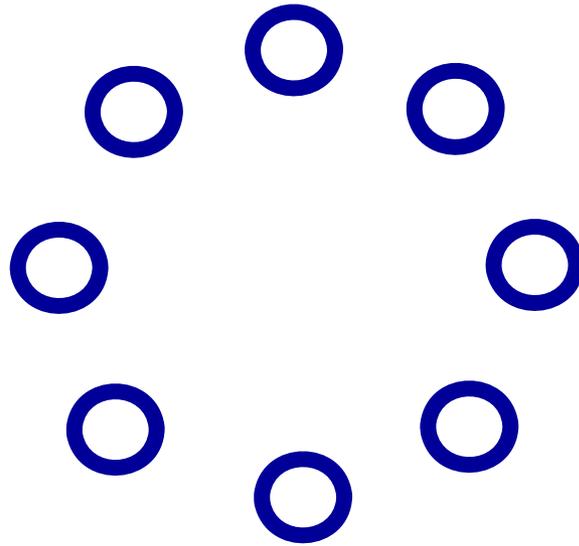
# To Form Water Crystal Ring



**Large Ring is Unstable**



# Fractal Decay into Smaller Rings



**Like Decomposing Vortex Ring**



# Small Ring: Seed of Water Cluster Gas



**Stable Under 0.5 Microns**

Mark LeClair <http://nanospireinc.com/>



# **Water Crystal Collisions**

**Produce Small Ring,  
Water Cluster Seeds**

# Two Approaching Water Crystal Jets



# Two Approaching Water Crystal Jets

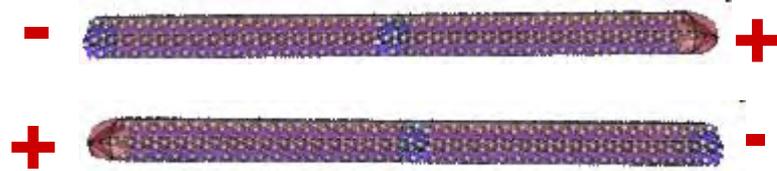


# Two Approaching Water Crystal Jets





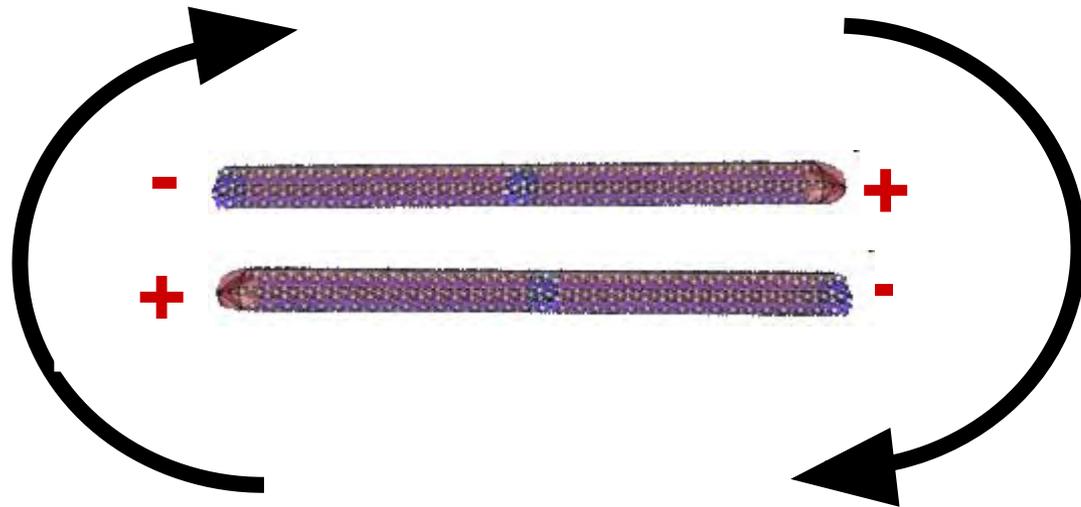
# Two Approaching Water Crystal Jets



**Attract Head to Tail**



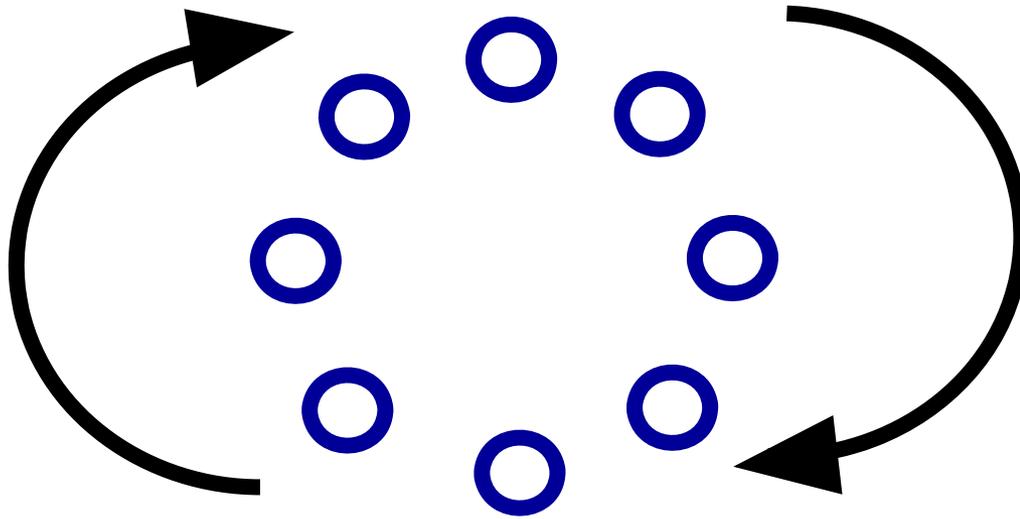
# Shear Collision



**Spirals Into Vortex**

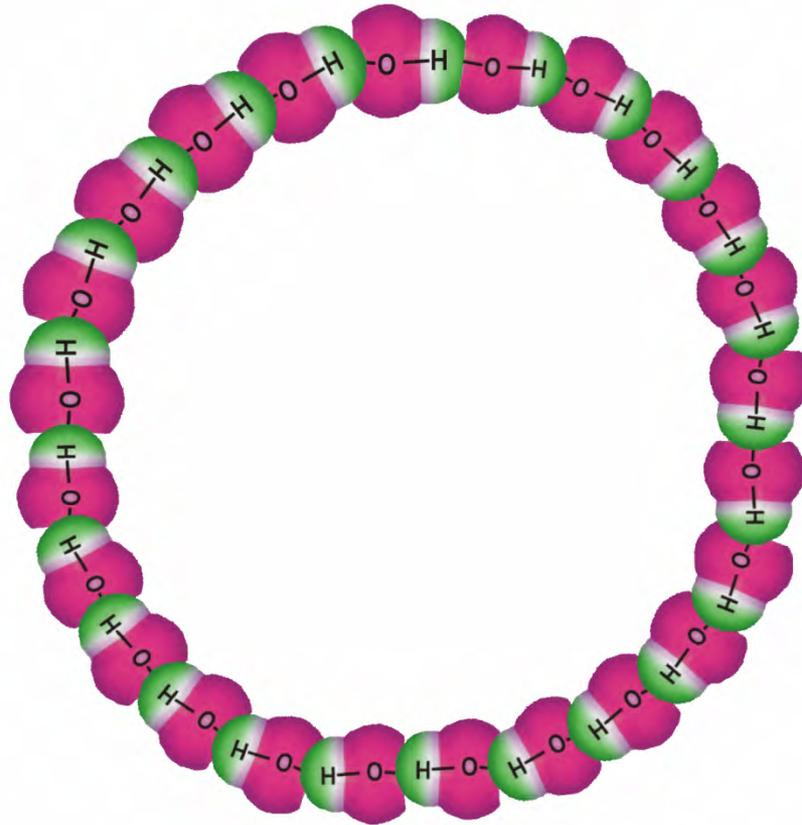


# Shear Collision Debris



**Small Water Crystal Rings**

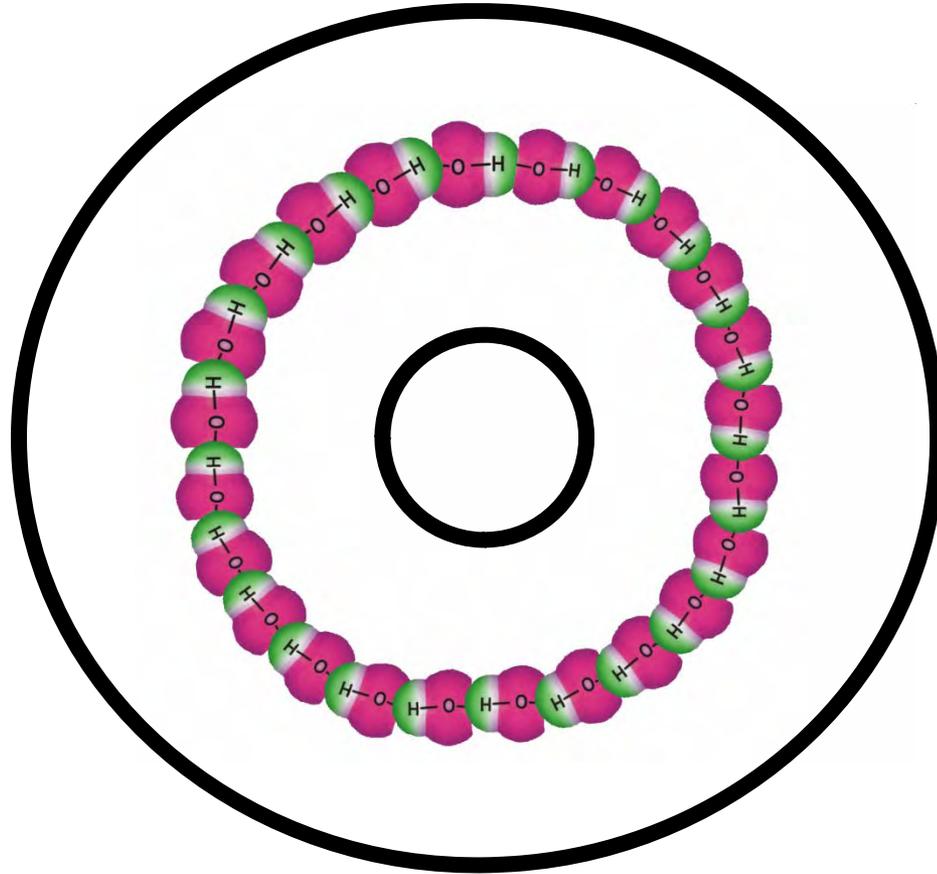
# Small Water Crystal Ring



**Electrons held in d orbitals – Rydberg Matter**



# Small Water Crystal Ring



**Electrons in Outer d Orbitals**

**Meta-Stable Torus Form**

# Breaking the Ring

Re-launches Water Crystal

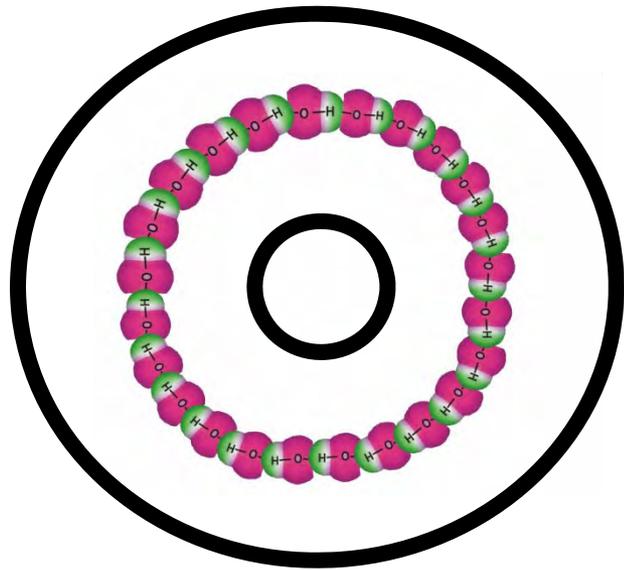


Coherent ZPE Bow Shock Causes  
LeClair Effect, Nuclear Reactions

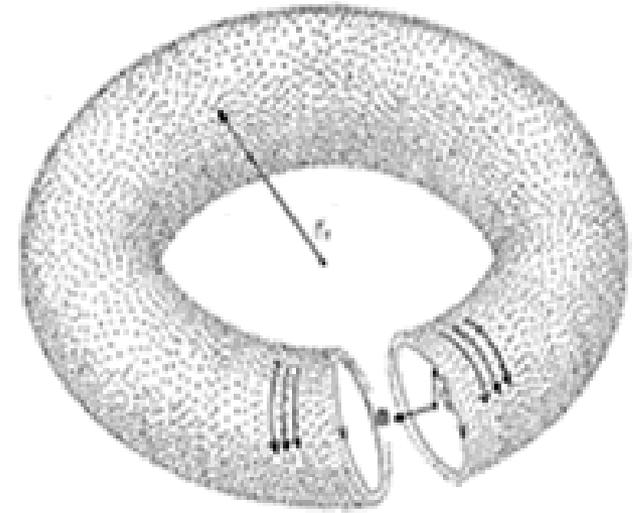
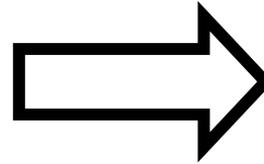
<http://nanospireinc.com/>



# When Ignited Ring Converts to EVO



**Water Crystal Ring**



**Plasmoid**



# How to Cavitate



# How to Cavitate

- Electrolysis Gas in tight gaps
- Venturi Vacuum
- Blow Air through Gaps
- Oscillate Electric Field, PWM
- Vibrate Mechanically
- Sonic, Ultrasonic
- Cavitating Pumps, Vortex Action



# How to Cavitate

**Electrolysis Gas in Narrow Gaps**

**Electrodes Have Rough Surface**

# Paul Zigouras



**Electrolyzer**

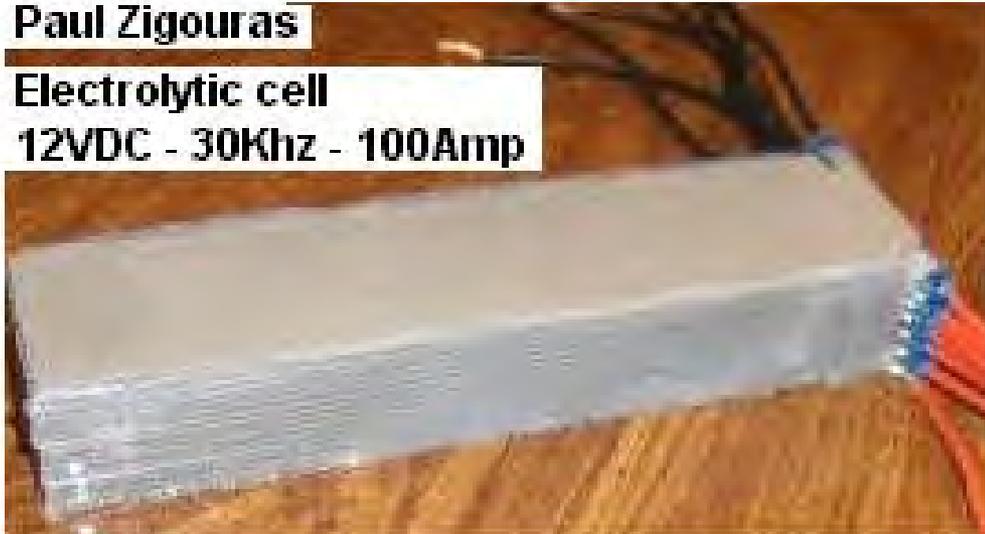
<http://www.panacea-bocaf.org/paulzigouras.htm>

# Zigouras Electrodes

Paul Zigouras

Electrolytic cell

12VDC - 30KHz - 100Amp



**316L Stainless Steel Plates**

**Spacing 0.6 mm**

<http://essenceciel.tk.free.fr/phpBB2/viewtopic.php?t=420>

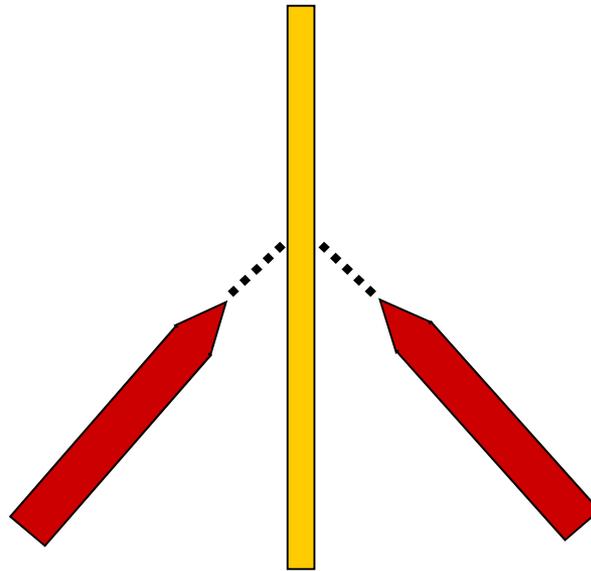


# Zigouras Sand Blasting

45 Degree Angle

40 – 45 Grit  
Silicon Carbide

Makes Barbed  
Sharp Edge Craters



316L Stainless Steel Plate

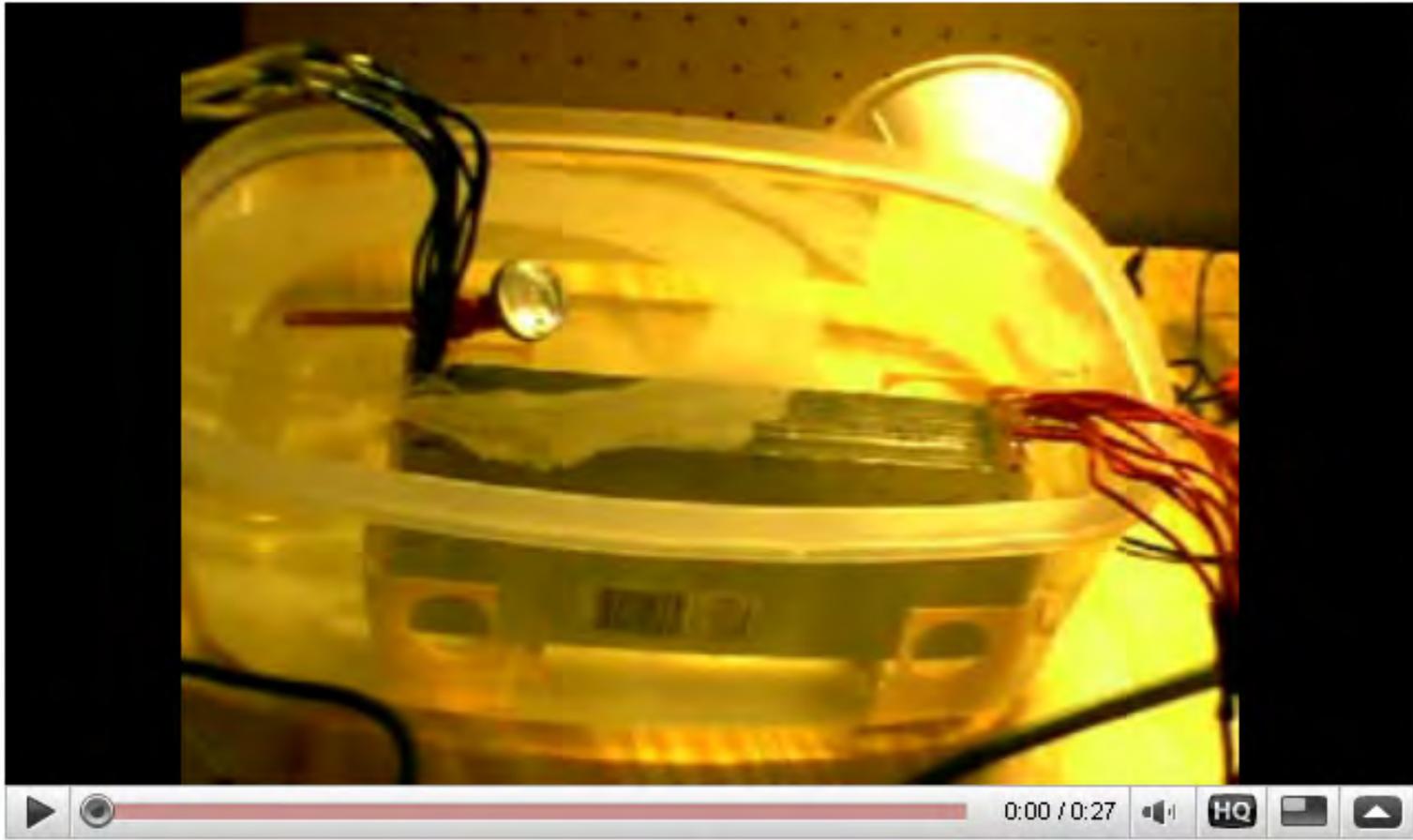


# Zigouras Media Blaster





# Zigouras Electrodes

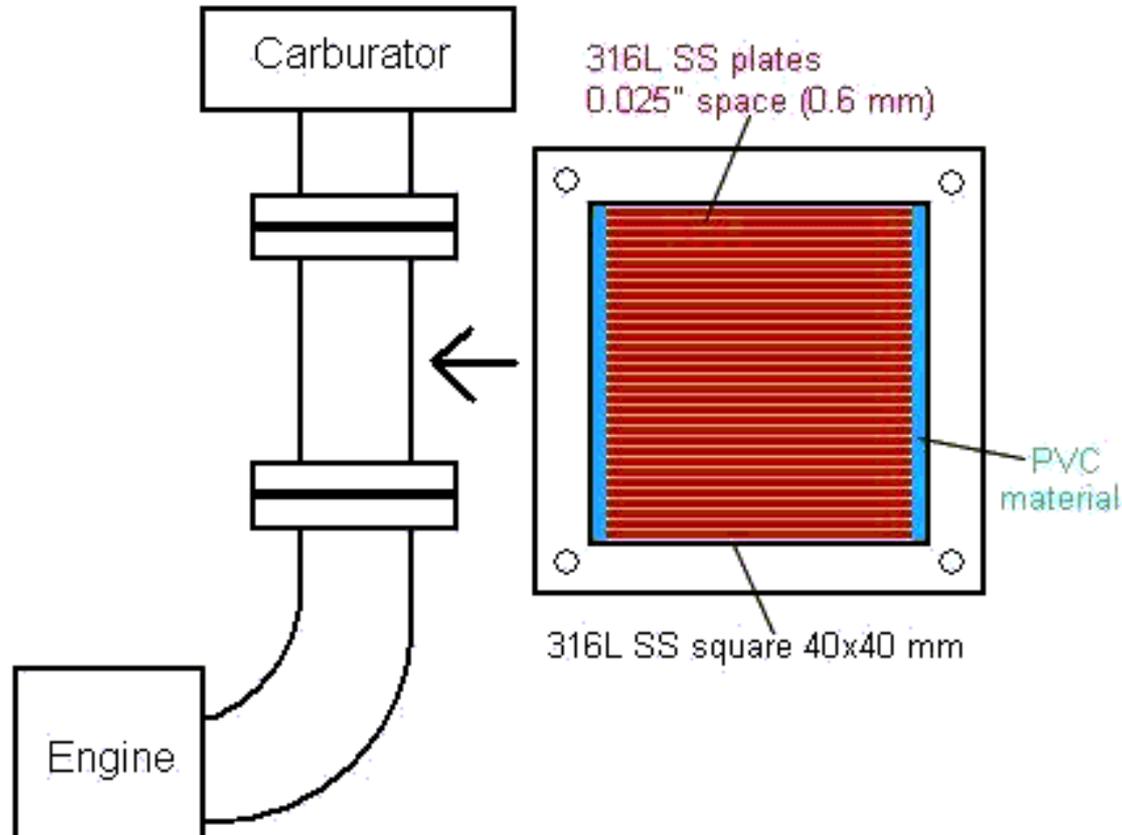


[Play](#)

Walter McNichols

<http://www.youtube.com/watch?v=dkT9TpdIVzs>

# Vacuum of Venturi Feed





# **How to Cavitate**

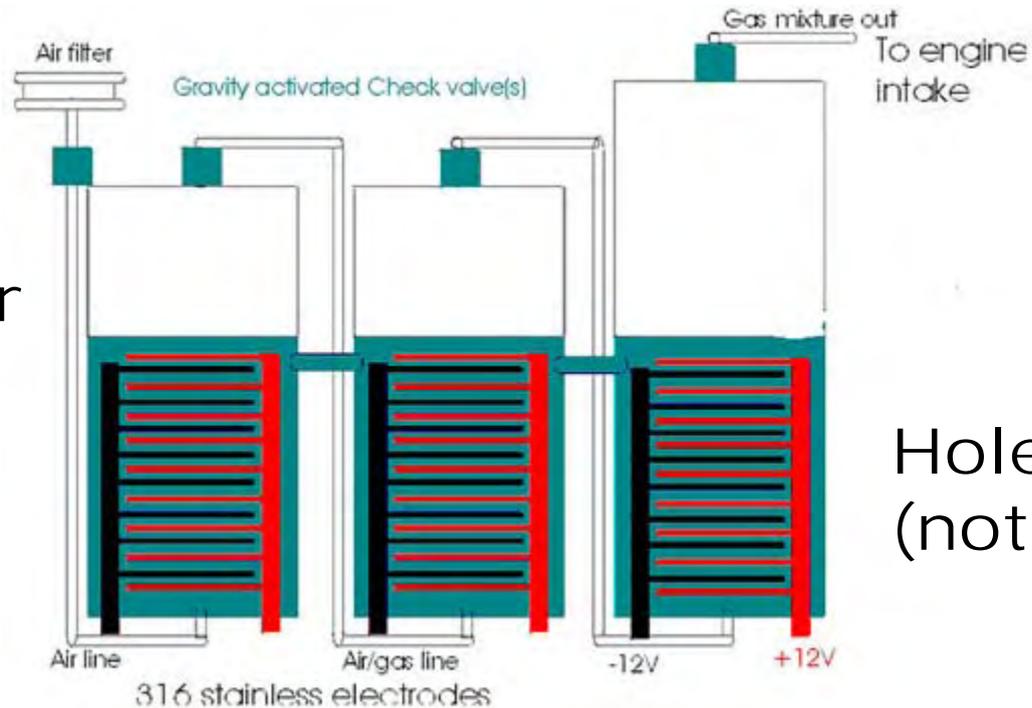
**Blow Air Through Gaps**



# Archie Blue

U.S. Patent 4,124,463 (1978)

Blow air through electrolyzer



Holes in plates (not shown)

Peter Lowrie

<http://waterpoweredcar.com/archieblue.html>



# **How to Cavitate**

**Mechanical Vibration**

# Ohmasa Gas



Torch



Runs Engine

Mechanical Vibration 100 Hz

Parallel Plate Electrolyzer

Stored gas under pressure, 2 years

# Ohmasa Gas



[Play](#)

<http://www.youtube.com/watch?v=NUPE0Z9V82E>



# How to Cavitate

**Oscillating Electric Field**



# Xogen Power, Inc. Xogen Technologies, Inc.



<http://www.xogen.ca>

# Stephen Barrie Chambers

(12) **United States Patent**  
Chambers

(10) Patent No.: **US 6,790,324 B2**  
(45) Date of Patent: **Sep. 14, 2004**

(54) **HYDROGEN PRODUCING APPARATUS**

(75) Inventor: **Stephen Barrie Chambers, Calgary (CA)**

(73) Assignee: **Xogen Power Inc., Calgary (CA)**

(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 207 days.

(21) Appl. No.: **10/180,855**

(22) Filed: **Jan. 25, 2002**

(65) Prior Publication Data

US 2002/0079453 A1 Dec. 5, 2002

**Related U.S. Application Data**

(63) Continuation of application No. 09/608,316, filed on Jan. 30, 2000, now Pat. No. 6,419,815, which is a continuation of application No. 09/115,023, filed on Jan. 26, 1998, now Pat. No. 6,126,794.

(51) Int. Cl.<sup>7</sup> **C28D 17/00**

(52) U.S. Cl. **204/242; 204/267; 204/272; 204/276; 204/293; 204/278.5**

(58) Field of Search **204/242, 267, 204/293, 278, 272, 278.1; 205/028-032**

**References Cited**

**U.S. PATENT DOCUMENTS**

3,311,097 A 3/1967 Mikolajewicz ..... 128/139  
3,654,592 A \* 5/1976 Evershitt ..... 204/228.7  
4,187,008 A \* 8/1979 Evershitt ..... 205/534  
4,184,931 A 1/1980 Ison ..... 204/129  
4,339,787 A 2/1982 Thoms ..... 204/242  
4,384,280 A \* 7/1983 Puharich ..... 205/541

4,590,158 A 7/1986 Ofenloch ..... 204/228  
4,750,661 A 1/1989 Meyer ..... 204/228  
5,338,621 A \* 8/1994 Abu et al. .... 204/534  
5,632,870 A 5/1997 Kosharev ..... 204/241

**FOREIGN PATENT DOCUMENTS**

JP 9071980 5/1997 ..... C29B3/04  
RU 2 048 089 C1 11/1995 ..... C29B3/04  
WO 9809001 5/1998 ..... C29B3/04

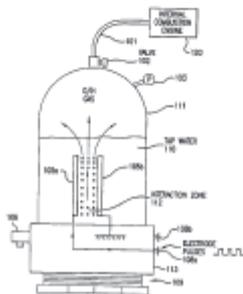
\* cited by examiner

Primary Examiner—Donald R. Valentine  
(74) Attorney, Agent, or Firm—Stoel Rives LLP

**(57) ABSTRACT**

An apparatus for producing orthohydrogen and/or parahydrogen. The apparatus includes a container holding water and at least one pair of closely-spaced electrodes arranged within the container and submerged in the water. A first power supply provides a particular first pulsed signal to the electrodes. A coil may also be arranged within the container and submerged in the water if the production of parahydrogen is also required. A second power supply provides a second pulsed signal to the coil through a switch to apply energy to the water. When the second power supply is disconnected from the coil by the switch and only the electrodes receive a pulsed signal, then orthohydrogen can be produced. When the second power supply is connected to the coil and both the electrodes and coil receive pulsed signals, then the first and second pulsed signals can be controlled to produce parahydrogen. The container is self-purged and the water within the container requires no chemical catalyst to efficiently produce the orthohydrogen and/or parahydrogen. Heat is not generated, and bubbles do not form on the electrodes.

16 Claims, 10 Drawing Sheets



## U.S. Patents:

6,126,794 (2000)

6,419,815 (2002)

6,790,324 (2004)

# Xogen Power Inc.



# Toroidal Coil

**Under Water**  
**1500 turns**  
**19 Hz**

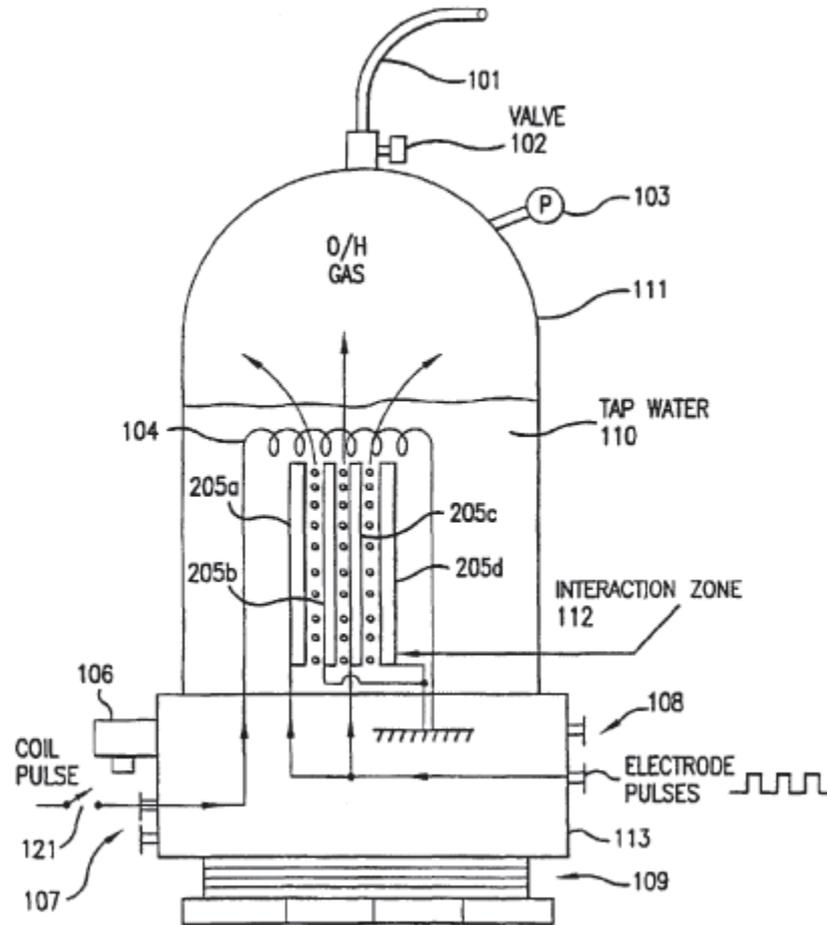


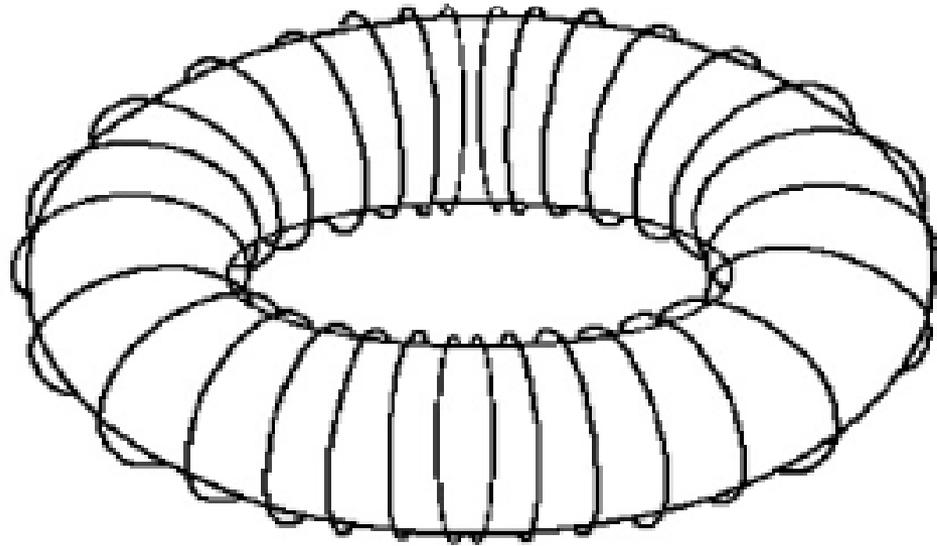
Fig 7

Chambers, US Patent 6,790,324 (2004)



# Induced Electric Field

$$\mathbf{E} = - \frac{\partial \mathbf{A}}{\partial t}$$



**Charge water clusters oscillate with E field**

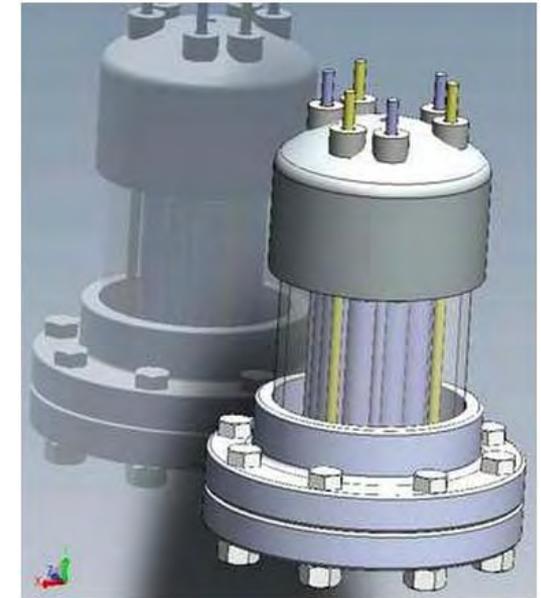
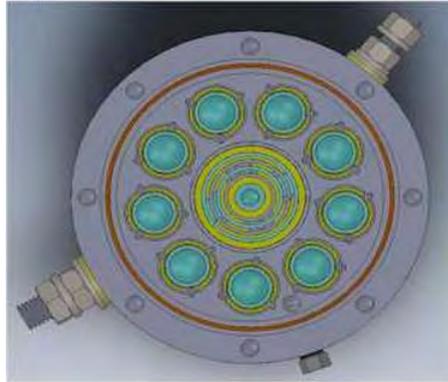
**Causes turbulence in water**



# **How to Cavitate**

**Sonic, Ultrasonic Vibrations**

# Freddy Wells



**Vibrate Pipe Electrodes  
Acoustically**

**Inner & Outer Pipes Tuned  
Identically**

**Ran 2004 Dodge Truck**

<http://peswiki.com/index.php/Directory: Hydrogen Hog by Future Energy Concepts, Inc.>



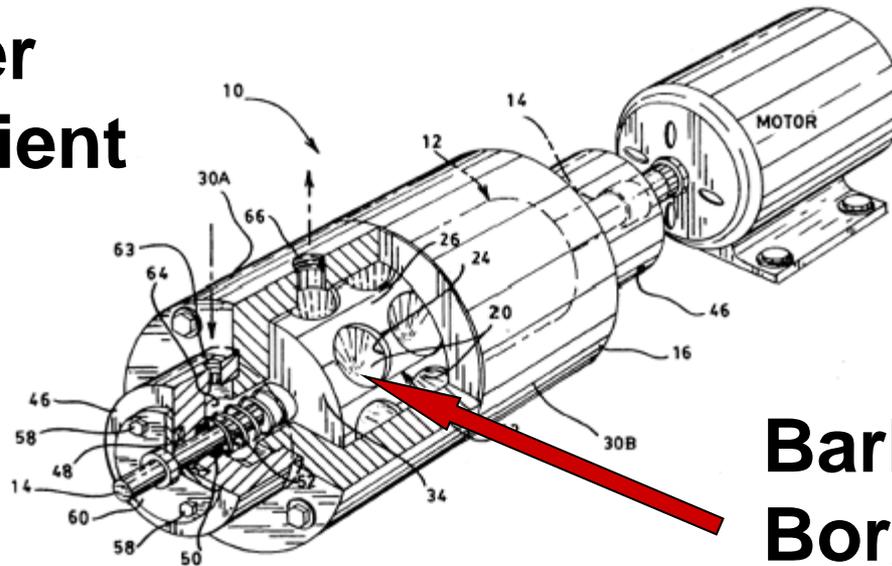
# **How to Cavitate**

**Cavitating Pumps**

**Vortex Implosion**

# James Griggs Hydrosonic Pump

Water Heater  
Overly Efficient  
130%



**Barbed Edge  
Bore Holes Cause  
Cavitation**

**U.S. Patent 5,188,090 (1993)**

<http://www.rexresearch.com/griggs/griggs.htm>



# John W Keely

## Hydro Vacuo Engine



**Patent Filed 1872**

**Based on **Water Hammer****

**Bulbs are Pulsating  
Chambers**

**Dale Pond** <http://www.svpvriil.com/JKMot2.html>

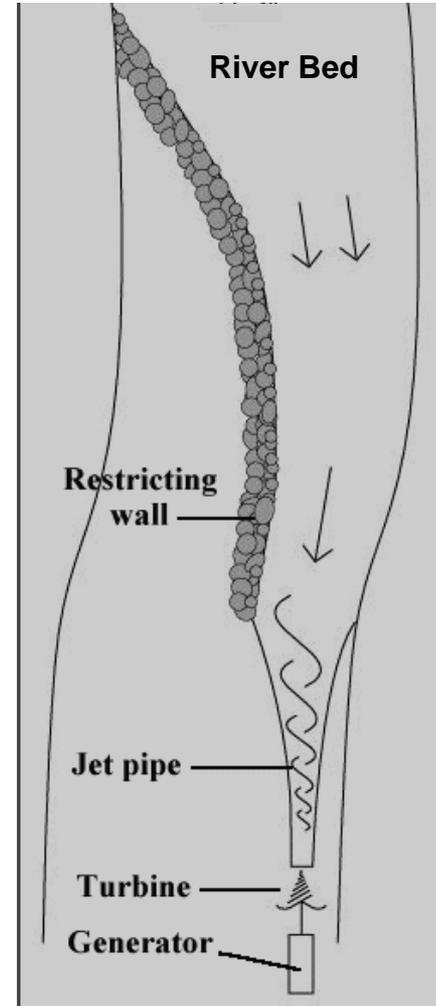
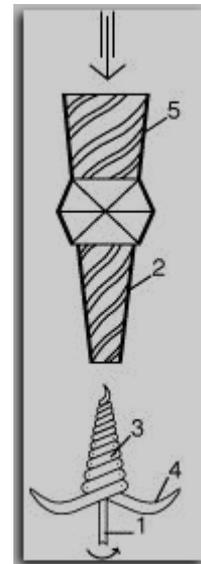
# Viktor Schauberger



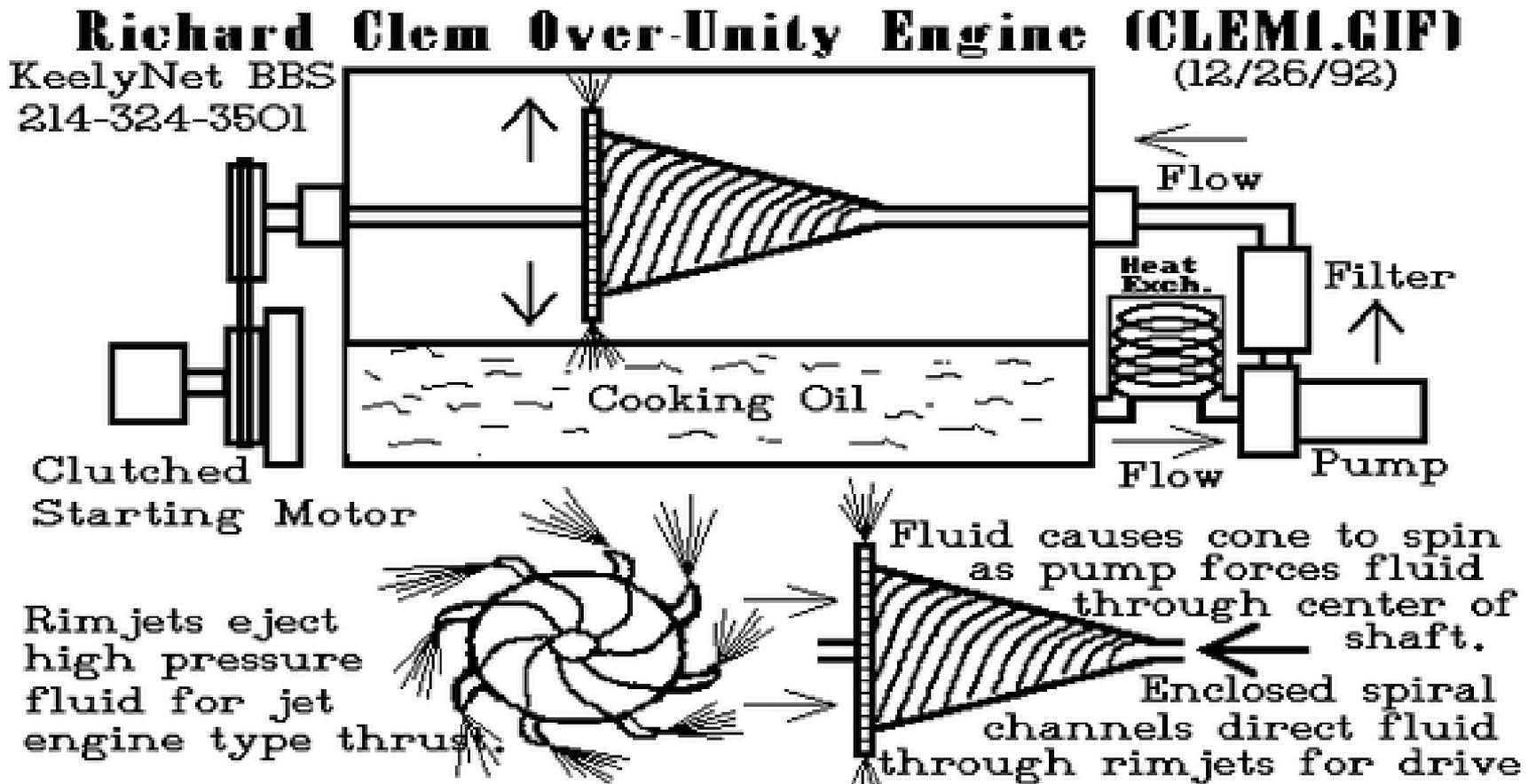
1885 - 1958

Water Jet Turbine

Austrian Patent 117,749 (1930)



# Richard Clem Engine

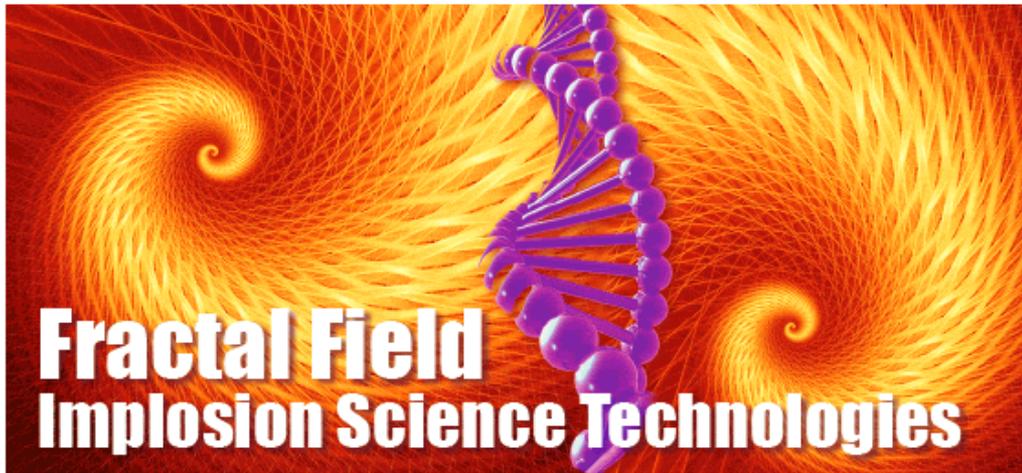


<http://keelynet.com/energy/clem1.htm>

# Vortex Imploder



**Dan Winter**



<http://www.fractalfield.com/>

<http://theimploder.com/products/imploder-shower-nozzle>





# Biokavitus (Bio Cavitation)

Andrea Rampado

Enhanced Plant Growth

Water Purification

Separate Oil from Water

Nuclear Remediation



**Venturi Shower Head**

Sterling Allan

[http://pesn.com/2011/11/05/9501947\\_Cavitation  
as\\_a\\_Purification\\_Panacea/](http://pesn.com/2011/11/05/9501947_Cavitation_as_a_Purification_Panacea/)



# **Circulate Water**

**To Both Cavitate It**

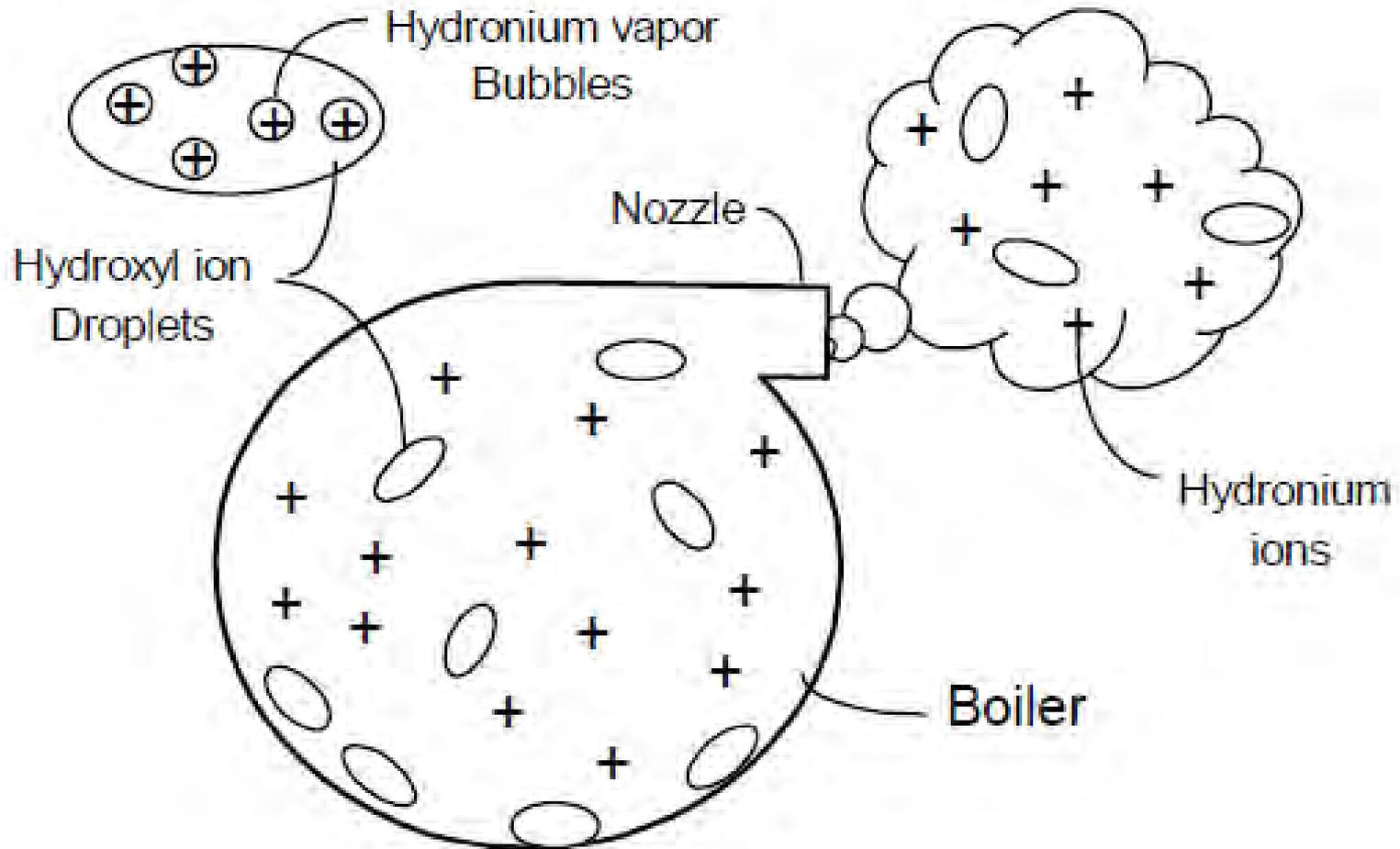
**And Charge It by**

**Electrostatic Rubbing**



# T.V. Prevenslik

## Bubbles and Steam Electricity





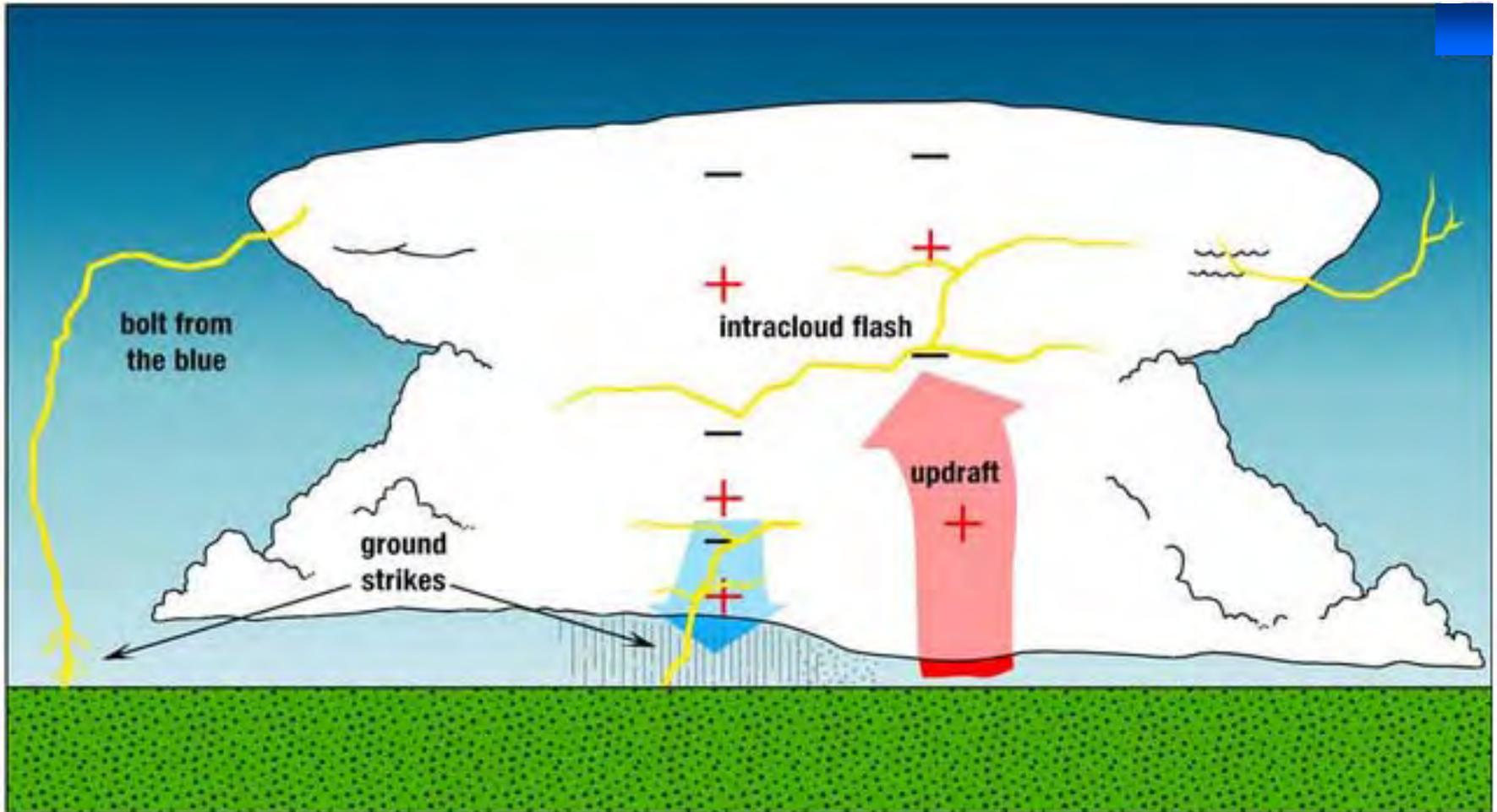
# T.V. Prevenslik

## Bubbles and Steam Electricity

- Steam Electricity
- Waterfall Ionization
- Sonoluminescence
- Thunder Cloud Charge Separation

<http://www.esdjournal.com/techpapr/prevens/previndx.htm>

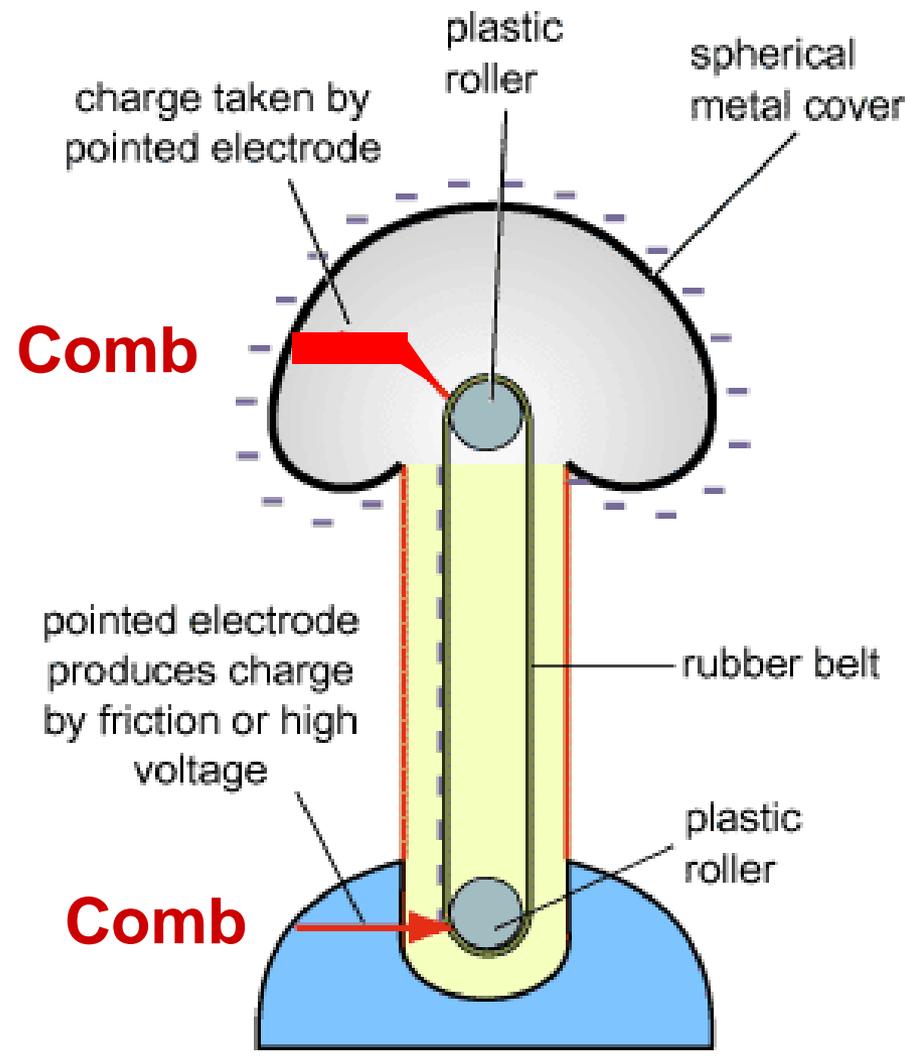
# Thundercloud Dynamics



[http://www.nssl.noaa.gov/primer/lightning/ltg\\_basics.html](http://www.nssl.noaa.gov/primer/lightning/ltg_basics.html)



# Van de Graaff Generator



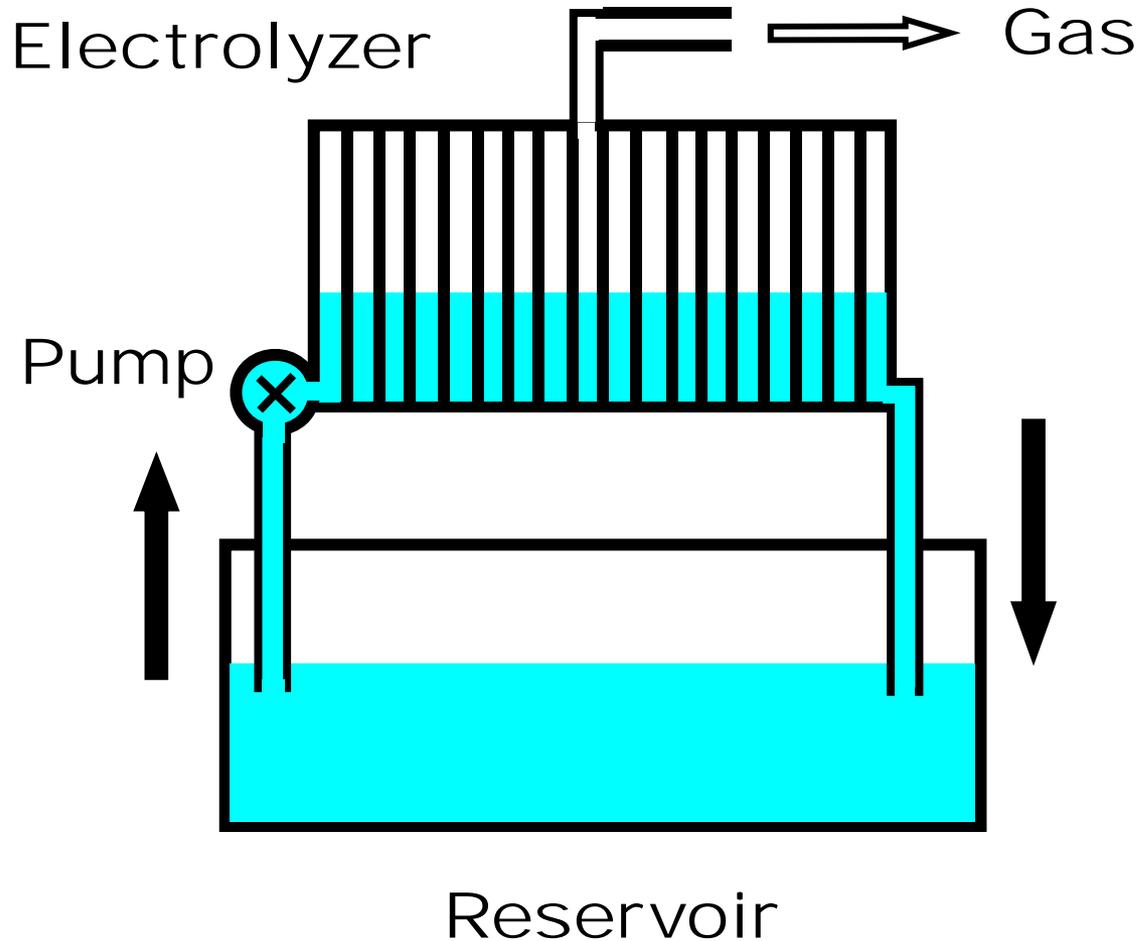


# Circulating Water Electrolyzer Like Van de Graaff Generator

- Distilled water acts as dielectric belt
- Rough conductive plates act as combs

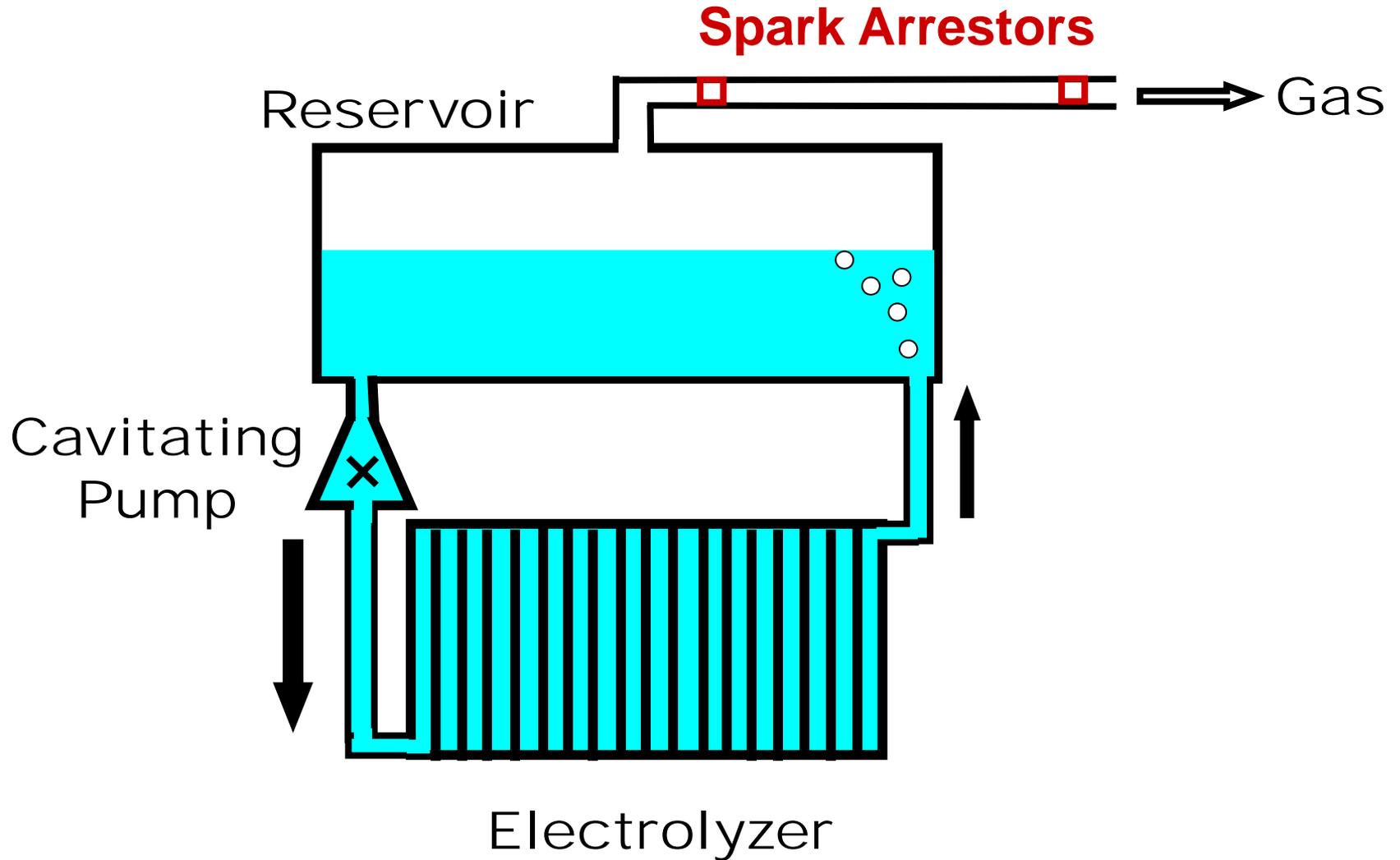


# Water Turbulence Flow Across Bottom



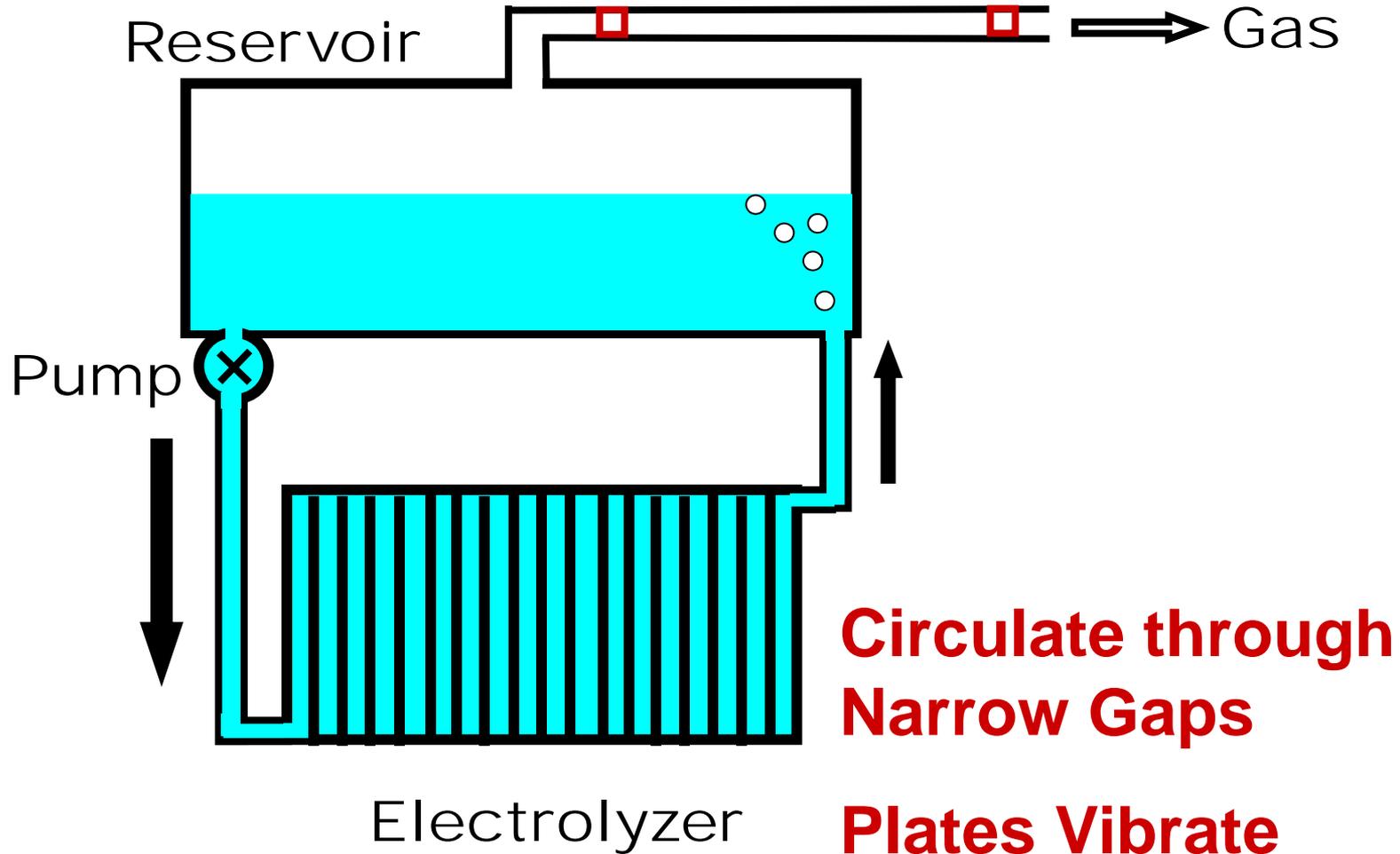


# Rapidly Circulate Water





# Reed Cavitation





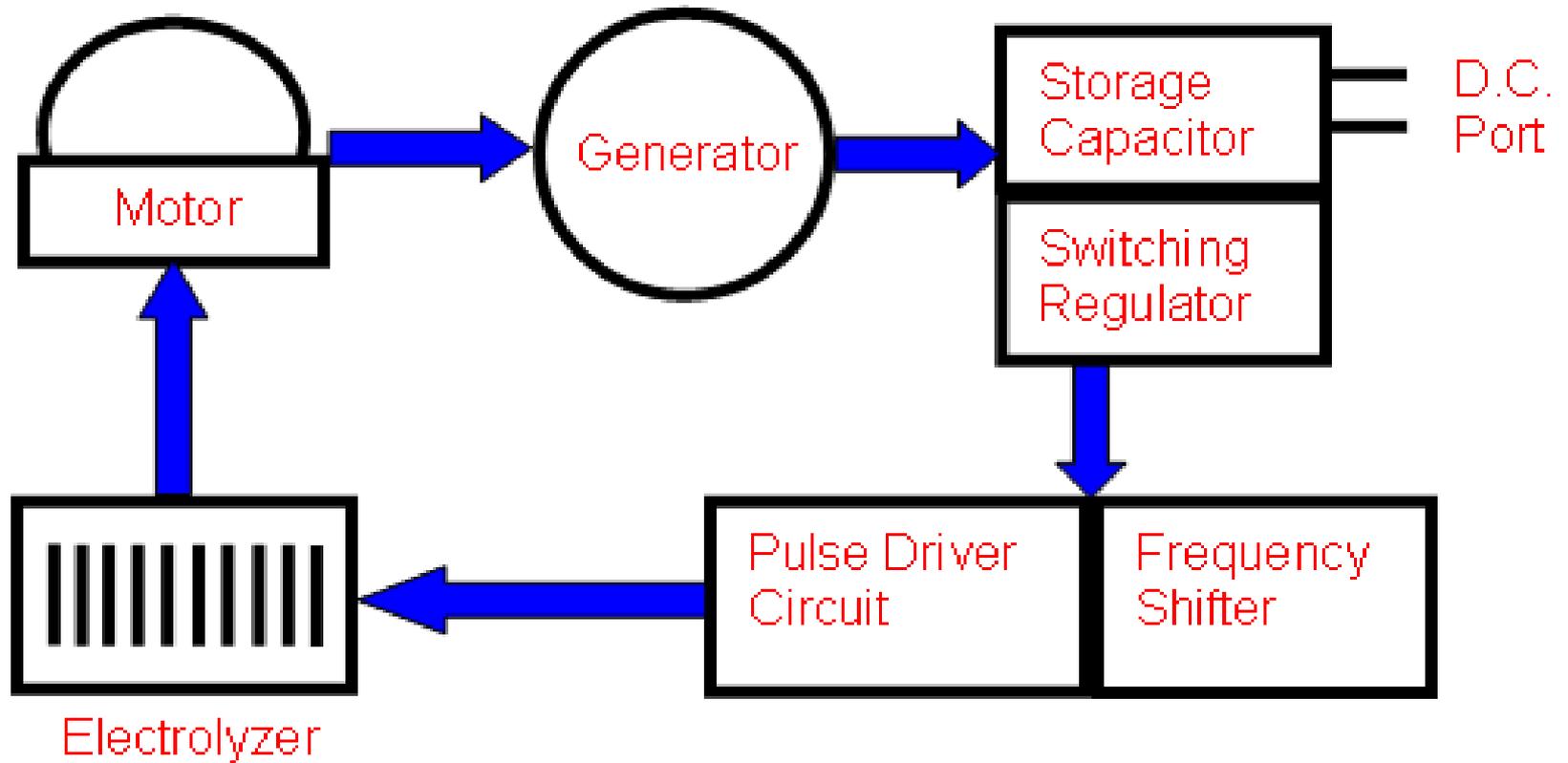
**Goal:**

**Make Self-Running System**

**Prove New Energy Source**



# Closed Loop System



**Self Running**



# Action Item: Inventors

- Make Closed-Loop, Self-Running System
- Prove Discovery of New Energy Source
- Share Information on Web



# Two Teams Succeeded

# HybridTech Releases Plans

3.25 KW Troy-Bilt Generator

Self-running for 20 minutes

6 liters/minute HHO

12.5 V DC 30 amps

Extra loads:

Light bulbs

Power drill



[http://pesn.com/2009/11/13/9501586\\_HybridTech-Energy\\_releases\\_water-fuel\\_generator\\_plans/](http://pesn.com/2009/11/13/9501586_HybridTech-Energy_releases_water-fuel_generator_plans/)

# Steven Eaton

## Concentric Cylinder Electrodes



6 inches high      1/2 inch outer      3/8 inch inner  
1/32 inch gap

Sokol, *You Can Turn Water into Fire*, p 90

# Eaton Cell Wiring



Sokol, *You Can Turn Water into Fire*, p 81



# Eaton Cell

Concentric Cylinder Electrodes



1/32 inch gap

Sokol, *You Can Turn Water into Fire*, p 87



# Eaton Cell

## Spiral Monofilament Line



Can induce vortex flow



# Eaton's Large Cell

16 inches



Sokol, *You Can Turn Water into Fire*, p 96

# Eaton Cells

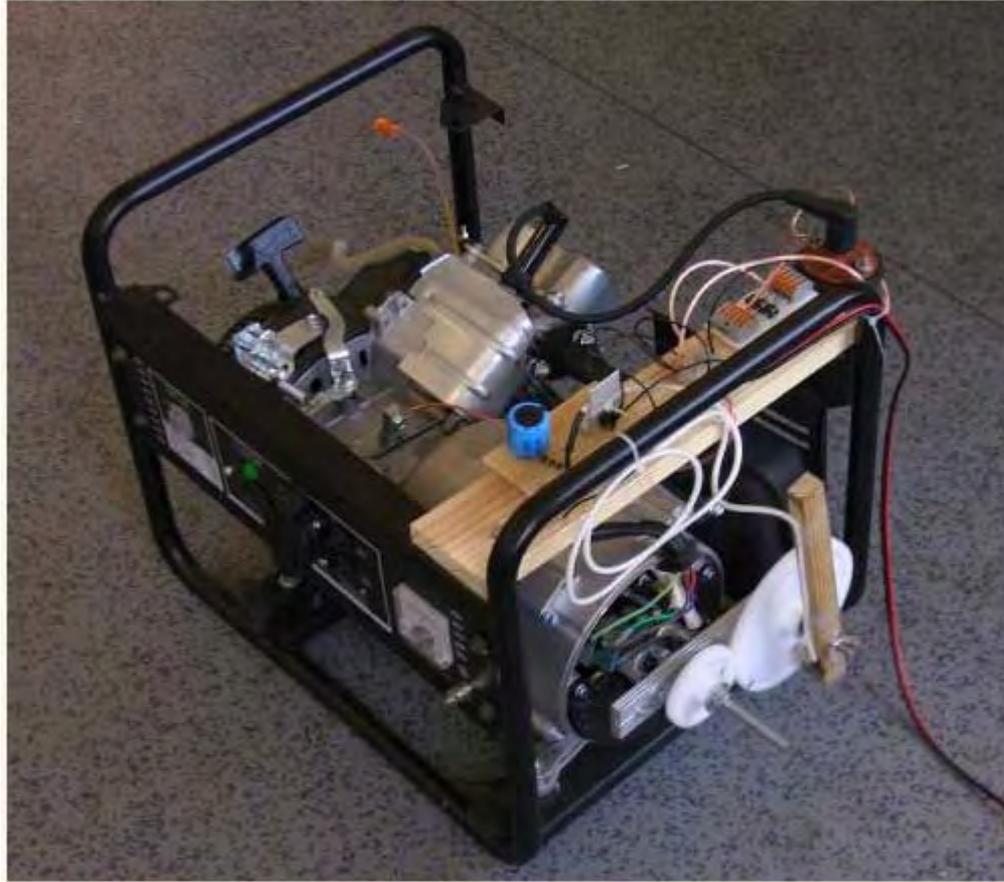


16 inch

6 inch

# Oliver & Valentin

Closed-Loop, Self-Running, HHO System

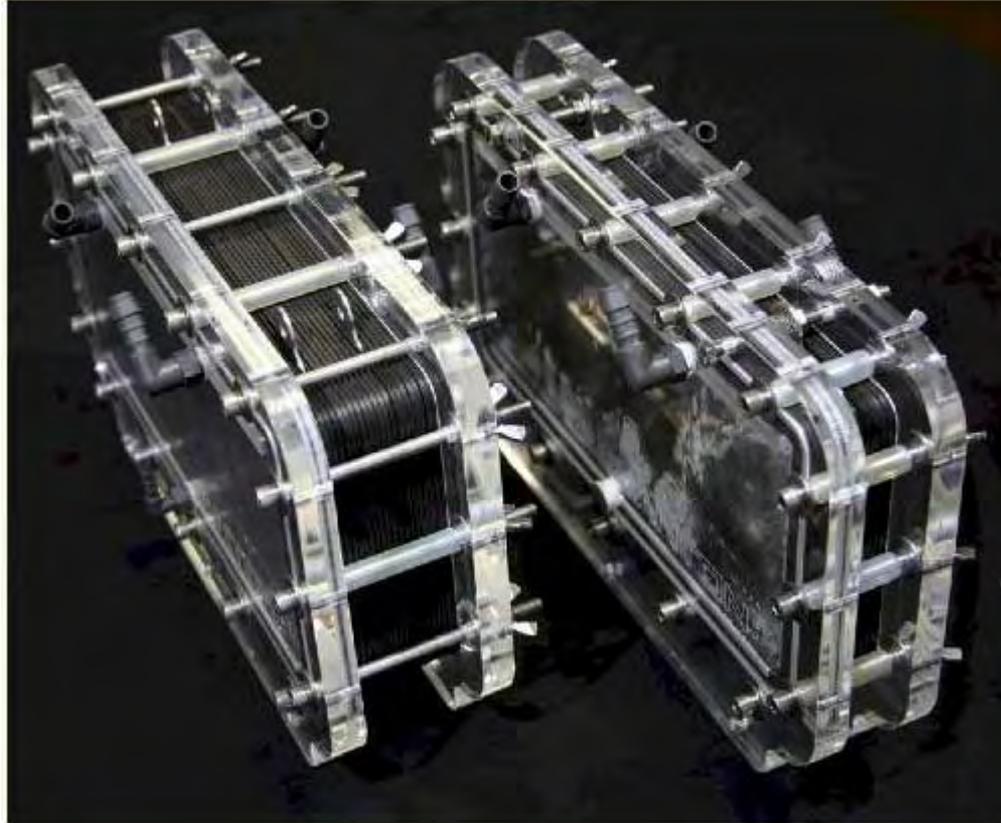


[http://peswiki.com/index.php/OS:Self-Looped\\_Anton\\_HHO\\_Cell\\_System](http://peswiki.com/index.php/OS:Self-Looped_Anton_HHO_Cell_System)



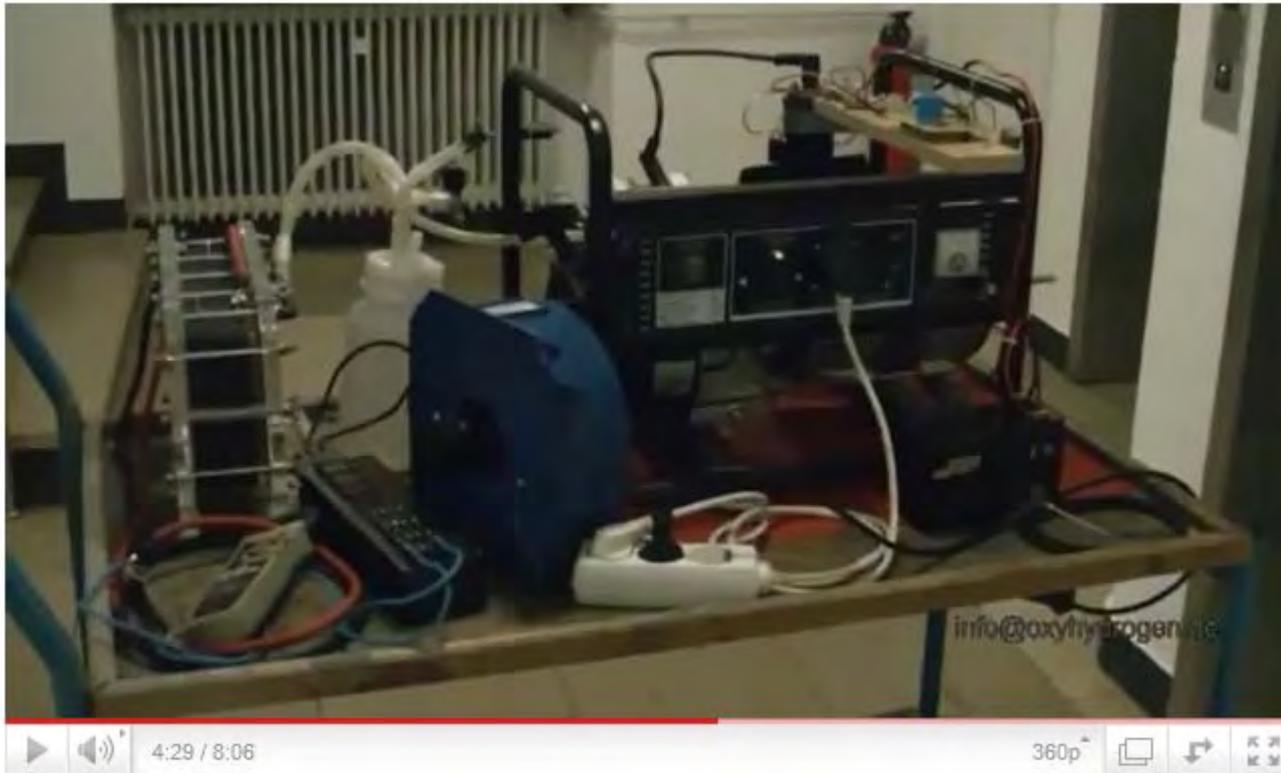
# Anton Cell

1 mm  
Gap



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

# Oliver & Valentin



**Self-running for 8 minutes**

**Rode on elevator**

[http://www.youtube.com/watch?v=cMlciNOyo\\_U](http://www.youtube.com/watch?v=cMlciNOyo_U)



# Oliver & Valentin Finale



[Play](#)

Stefan Hartmann

<http://www.youtube.com/watch?v=uQ9fyam4whg>



# Summary



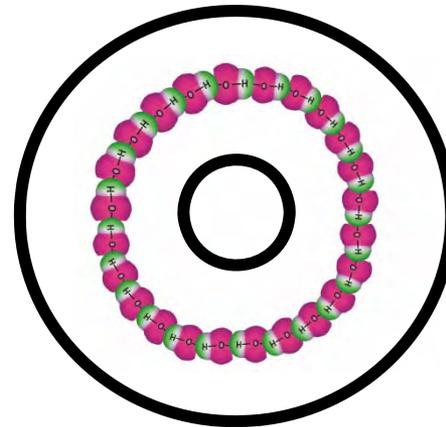
# Summary: Electrolyzer

- **Electrodes**
  - **Rough, Clean Surface**
  - **Small Gaps (< 1mm)**
  - **Causes Turbulence, Cavitation**
  
- **Electrical Stimulation**
  - **Pulsed Waveforms**
  - **Minimize Current and Electrolyte**
  - **Frictional Rubbing via Circulation**



# Summary: Cavitation

- **Bubble Collapses**
- **Reentrant Jet**
- **Water Crystal**
- **Closed Rings**
- **Stable Torus**
- **Coherent Energy**
- **LeClair Effect**





# Summary: How to Cavitate

- **Electrolysis Gas in Narrow Gap**
- **Blow Air**
- **Venturi Vacuum**
- **Vibrations**
  - **Mechanical**
  - **Acoustical: Sonic, Ultrasonic**
  - **Oscillate Electric Field**
    - **Toroidal Coil**
    - **Pulsed Waveform**



# Summary: Circulation

- **Water Charged by Rubbing**
- **Turbulence, Cavitation**
- **Vibrate Plates: Reed Cavitation**
- **Recycling Water Integrates Energy Content**



# Action Items

- **Chemistry Departments:**
  - Make Brown's Gas --- Remove Hydrogen
  - What is the water cluster gas?
- **Physics Departments:**
  - Repeat LeClair's Transmutation Experiment
  - Measure Isotopes
- **Inventors:**
  - Make Self-Running Systems
    - Electrolyzer -- Generators



**Share Information**

**Make A New World**



# Cavitation Bubble Collapses into Torus



**An Archetype Form**

# Thrive Movement



[Play](#)

<http://www.thrivemovement.com/>

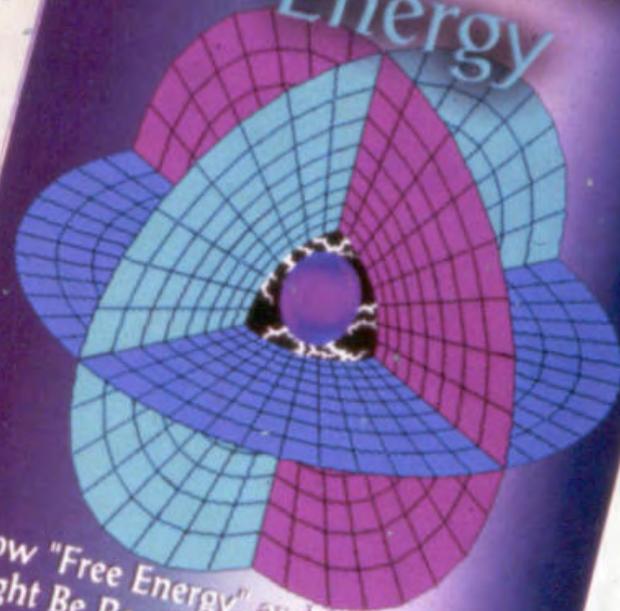


# Quest For Zero Point Energy

Engineering Principles  
For "Free Energy"

Moray B. King

# Tapping The Zero-Point Energy



How "Free Energy" and "Anti-Gravity"  
Might Be Possible with Today's Physics

Moray B. King



# THE ENERGY MACHINE OF T. HENRY MORAY



Zero-Point Energy &  
Pulsed Plasma Physics

Moray B. King

<http://www.AdventuresUnlimitedPress.com>



# Questions?

Download this presentation from

[http://peswiki.com/index.php/Video:Water as Fuel \(via ZPE\)](http://peswiki.com/index.php/Video:Water_as_Fuel_(via_ZPE))

Google: **Water Fuel ZPE**