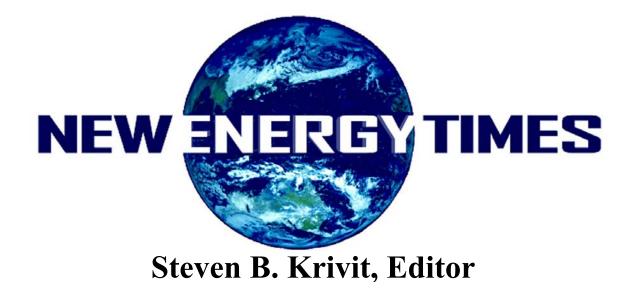
Introduction to The Hydraulic-Electrostatic Cold Fusion Method



12th International Conference on Condensed Matter, Yokohama, Japan Dec. 1, 2005

A New Method

- Demonstrated on June 6, 2005, –Edmonton, Canada
- Research Manager:

 Hyunik Yang, professor of mechanical engineering at Hanyang University, Korea

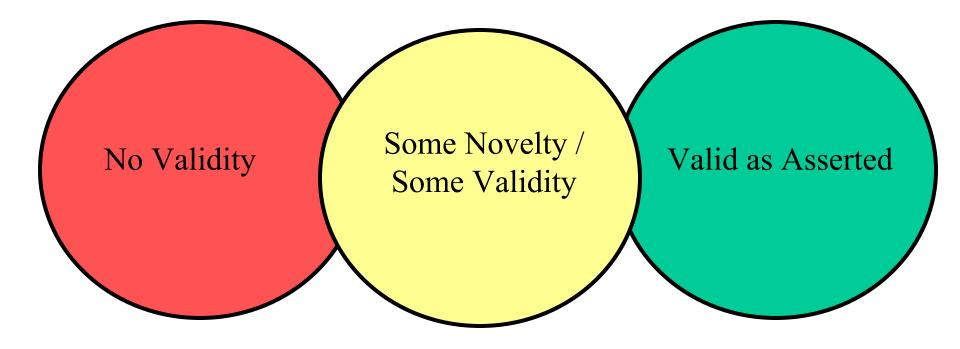
Yang's Research Team

- Alexander Koldamasov, (ret.) Russian National Research Institute of Atomic Engineering
- Andrei Desyatov, deputy director of the Russian Aviation and Space Agency
- Alla Kornilova, Moscow State Univ.
- Vladimir Vysotskii, Kiev Shevchencko Univ.
- Nahm Cho, Hanyang Univ.

Another Russian Team and Patent Holder

- Yevgeny Velikhov, president Kurchatov Research Institute
- Gerasimovich Gnedenko, director Kurchatov Research Institute
- Vital'evich Goryachev, associate director Kurchatov Research Institute

The Claims



Progress of Cold Fusion

Excess energy ~ 10%Milliwatts: High repeatabability

Excess energy ~ 2500%Tens of watts: Low repeatability

• Challenge: High power levels, high repeatability

Acoustic Cavitation Fusion Research

Stringham – Cold Fusion with D and Pd – 40 watts excess power.

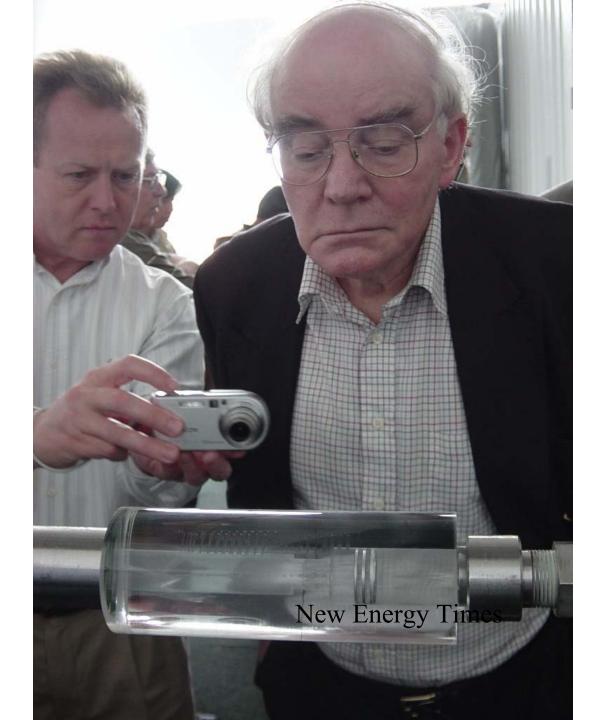
• Taleyarkhan – Hot Fusion with deuterated acetone and neutron generator. No excess energy.

Mechanical Cavitation

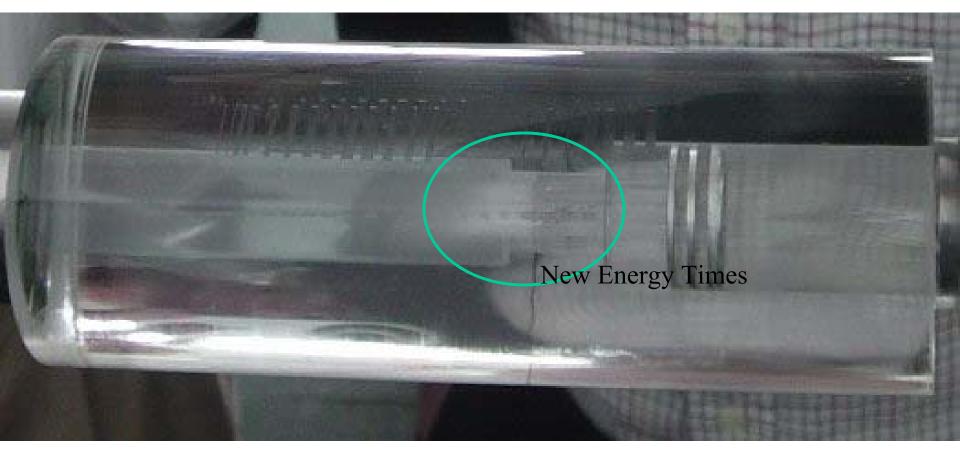
High hydraulic pressures and velocities, pumping a fluid in a recirculating system combined with electrostatic effects.

Simplest Description:

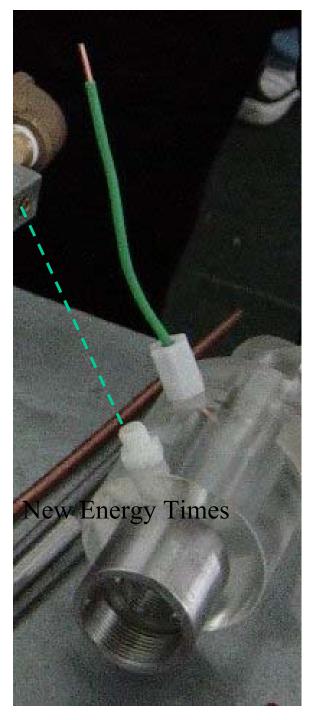
"It's a tube and a hole." (McKubre)



The Cell



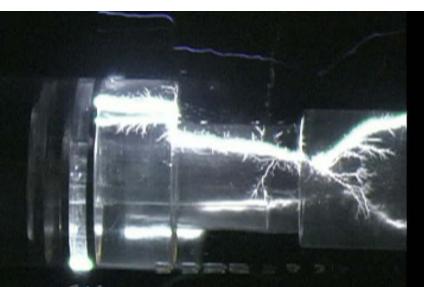
Cell with Electrical Taps



Electrical Discharge in Machine Oil









Mechanical Cavitation

100 % Repeatable Sustainable Controllable Apparent Excess Energy

General Characteristics

No host metal (palladium) required

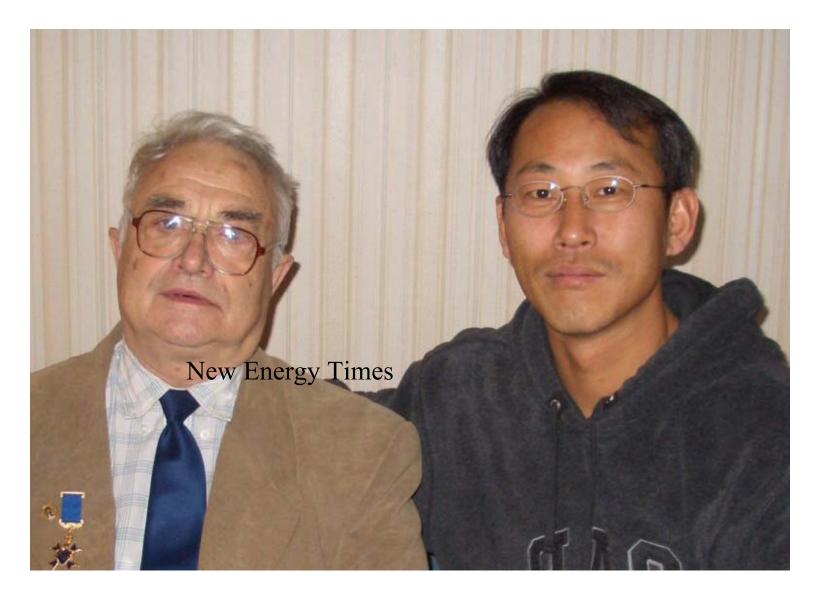
No deuterium / heavy water required

No electrochemistry

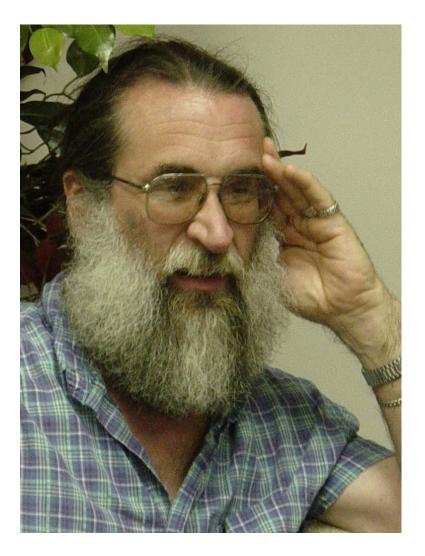
Why Is This Cold Fusion?

Apparent excess energy from hydrogen at low temperatures

Apparent branching ratio favoring helium and not neutrons or gamma.



Alexandr Koldamasov - Hyunik Yang



Bill Harrington

Norm Arrison



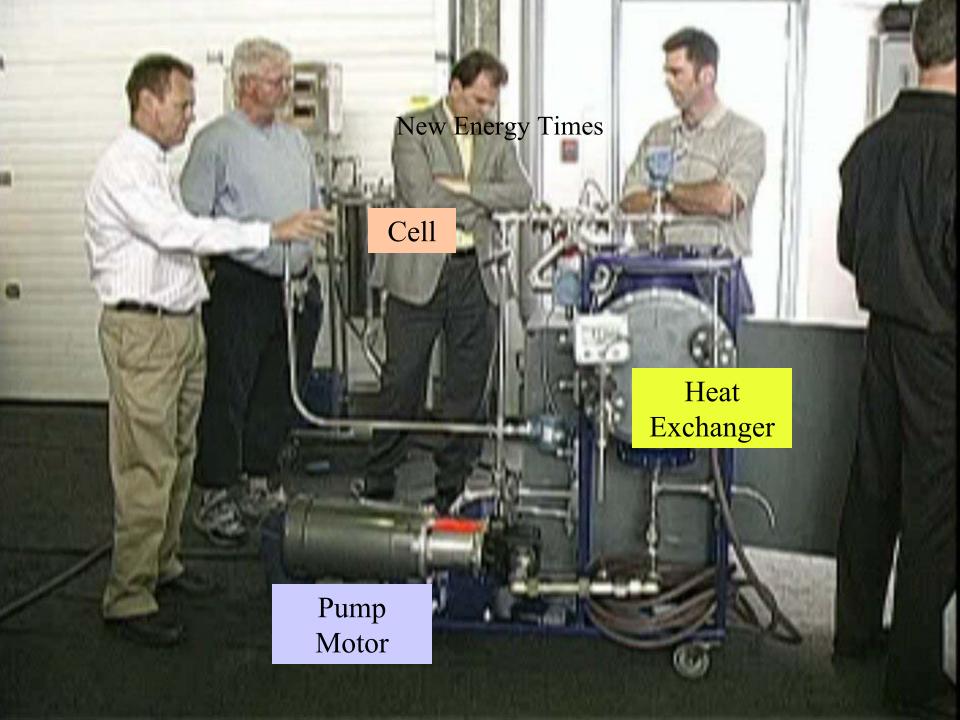
Technical Briefing June 6, 2005

New Energy Times

Edmonton Demonstrations

First: Monday June 6, 2005 (day)Second: Monday June 6, 2005 (evening)Third: Tuesday June 7, 2005 (evening)

The small machine. Cell for mid-size machine sits on table. Energ



Water Purification System

Pump

- 12-4/6E

New Energy Times

Cell

Hydrogen Collection Tank

Observations

- 1. Three visible effects: Arc, Sparkle, Glow.
- 2. Appearance of vaporized oil.
- 3. Tin and Tout Δ is perceptible by touch.
- 4. Control screen display of 1000% Px (Heat).
- 5. Start and stop at will.
- 6. Increase or decrease effect at will, immediate. response.
- 7. Effects start immediately.

Main Products Reported

- 1. Heat.
- 2. Electrical discharge.
- 3. Also Hydrogen, Helium, Steam.
- 4. Multiple audits performed (private).
- 5. Control cell Δ T = 0.5°.
- 6. Test cell $\Delta T = 8^{\circ}$.

Radiation Reported

- 1. No radioactive materials used.
- 2. No long-lived radioactivity produced.
- 3. Low-level transient radiation produced during low power operation.
- 4. Shielding required for neutron and gamma emissions produced at higher operating power levels.

Martin Fleischmann

- "It's so simple, I should have thought of it!"
- "I think it's real all right. Assuming that they have instrumented the system properly, there is no doubt it generates excess heat."
- "Under certain circumstances, a liquid can behave like condensed matter."
- "Same difficulties as we went through."

Peter Hagelstein

• Feb. 13, 2005:

"It was possible to verify by touch the presence of a sizeable temperature increase."

"The basic claims of energy and charge creation correspond to massive effects that are readily observable independent of any of their diagnostics."

"In the course of my review, essentially no scientific data was presented."

McKubre -Mizuno –

No comments "on the record."

What's Missing

Hard data None yet. Replication? Not Independent. Machines are in labs in Russia, Canada and Korea. Scientific Publication?

Resolution?

Good Magic ? OR Good News ?

