

Re: Cold Fusion demo

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- *From:* Douglas Eagleson <eaglesondouglas@xxxxxxxx>
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On May 27, 3:22 pm, Dirk Bruere at NeoPax <dirk.bru...@xxxxxxxx> wrote:

<http://www.physorg.com/news131101595.html>

"Now, esteemed Physics Professor Yoshiaki Arata of Osaka University in Japan claims to have made the first successful demonstration of cold fusion. Last Thursday, May 22, Arata and his colleague Yue-Chang Zhang of Shanghai Jiotong University presented the cold fusion demonstration to 60 onlookers, including other physicists, as well as reporters from six major newspapers and two TV studios.

..
Arata and Zhang demonstrated very successfully the generation of continuous excess energy [heat] from ZrO₂-nano-Pd sample powders under D₂ gas charging and generation of helium-4," Takahashi told New Energy Times. "The demonstrated live data looked just like data they reported in their published papers [J. High Temp. Soc. Jpn, Feb. and March issues, 2008]. This demonstration showed that the method is highly reproducible."

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Dirk

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Remote Viewing classes in London

Excess energy is a likely misnomer. D₂ adsorption will cause a temperature change to the positive. A He-4 as a mistaken application might well exist. A cold reaction can appear, but the energy was still endothermic. A careful energy calorimeter was always necessary to quantify all effect.

A nice resistor as a calibration current heater can cause a well documented applied cold fusion test.

Cold fusion is a real effect, but the question was always excess energy. SO finding some He-4 without an exact energy release measurement means little.

Re: Cold Fusion demo

I remember a talk by Pons's neutron detection experts once. And exact neutron fluence was always a critical value relative to the heat generated. Exothermic condition was inferred incorrectly. A person must assign absolute error bars to ALL neutron fluence measurements. They did not use realistic neutron error bars. A one sigma of 10 percent for the National Neutron Standard should be assigned.

It is a critical reality, a real calibration is extremely difficult unless a relative source calibration occurs. No one on this earth currently performs absolute neutron calibration, should warn people engaged in critical neutron measurement.

Pons played a real chemistry game and ended up shafted by true undocumented absolute neutron error.

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