

Subject: Re: Stanford GCEP meeting  
From: "Lefteri H. Tsoukalas" <tsoukala@purdue.edu>  
Date: Fri, 18 Nov 2005 00:47:13 -0500  
To: "Gore, Jay P." <gore@purdue.edu>  
CC: katehi@ecn.purdue.edu

Dear Jay,

I advise caution, with all due respect, on sonofusion. It appears that experimental sloppiness, poor analysis, and even poorer ethics may be involved.

You may recall that on January 14, 2005, we met in your office and discussed the results of independent experiments conducted by the School of Nuclear Engineering aiming to confirm Taleyarkhan's findings published in Science (3/8/2002). Our conclusions were clear and categorical. There is no evidence whatsoever of tritium production and therefore (contrary to what has been claimed) no signature for thermonuclear fusion. The Purdue experiments were very well-conducted, with very good statistics and thorough analysis of results.

Per your advice, we withdrew a paper describing Purdue's independent experiments and findings entitled "TRITIUM MEASUREMENTS IN ACOUSTIC CAVITATION NUCLEAR EMISSION EXPERIMENTS," accepted for publication in the 11th International Topical Meeting on Nuclear Reactor Thermal-Hydraulics (NURETH-11), Avignon, France, October 2-6, 2005 (Paper 455).

Lefteri

Gore, Jay P. wrote:

Lefteri,

I was in a retreat organized by Exxon Mobil, GE, Schumberger, and Toyota to guide GCEP in their defining strategies for breakthrough research. At this meeting, a DARPA Program Manager told me that Putterman (UCLA?) has told him that acoustic inertial confinement fusion is definitely realizable in an experiment within a few years. Putterman just is not sure (and I guess he has company) that Rusi has demonstrated it. Suslick has measured plasmas and says that even though fusion is far from realized the mechanism of heating by confinement does not have a theoretical limit.

Given this situation, should we at Purdue consider revising our approach towards Rusi from optimistic but informed scpeticism to optimistic, informed investment to quickly get to bottom of things?

I know that you are a thoughtful person who always recaibrates himself and is open to new and different thinking. Therefore, I was wondering if we should meet and discuss this, including with Linda.

Best,

Jay  
Sent from my Blueberry Wireless

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