

Date: Mon, 30 Apr 2007 13:16:33 -0400
From: Rusi Taleyarkhan <rusi@ecn.purdue.edu>
To: Steve Krivit
Subject: Response to request of today (rpt->s.krivit;4.30.07)

Hi Steve:

Per request, attached pl. find:

1) MSWord file with image file on signatures from the wall in the Pharmacy Building expt. room wall where Tsoukalas's group was doing it's experiments and where Xu also obtained data.

2) The corrected file of supporting documents (with the dates of transmittal corrected) is attached. Just to make sure we're clear about that table. Tsoukalas's group used two neutron sources for their experiments. The first was a 1Ci isotope source similar to the one used by my group earlier in Oak Ridge. Rather than continue along they then reverted to using a 10 Ci. The 1Ci based data are indeed positive on the aggregate whereas, the 10Ci based data gave them null results on occasion due to onset of different expt. conditions (non-spherical shapes of bubbles) - an effect even Xu et al. discuss in their NED paper. Even then, upon aggregating the good and bad data Tsoukalas's group still had experienced positive signs for tritium per the 5/14/04 email of Tsoukalas - something they have withheld from the public.

Thx,

Rusi

Date: Tue, 29 May 2007 16:29:57 -0400
From: Rusi Taleyarkhan <rusi@ecn.purdue.edu>
To: Steve Krivit
Subject: Re: Rusi, can you tell me the group member names please? (rpt->s.krivit;5.29.07)

5 Faculty --Tsoukalas, T. Jevremovic, M.Bertodano, S. Revankar, F. Clikeman
Students -- J. Walter, A. Bougauev

To my knowledge, none of the faculty did any experimentation nor knew how to set up a system. The students were invited to my lab at ORNL to learn. Clikeman (a retiree) prepared samples for tritium monitoring on a dated Packard machine used at Purdue primarily for radiological safety assessments. Data analysis was done by Revankar and Clikeman. Xu was asked by Tsoukalas to perform monitoring for tritium in a systematic fashion using Clikeman's samples

using a state-of-the-art Beckman spectrometer loaned from Oak Ridge to Purdue in late 2003.

Xu's data and analyses were verified/cross-checked by Revankar and later also by Clikeman (you have the 5.14.06 results from Clikeman along with the Tsoukalas email to me attesting to this fact). Positive data confirming fusion were at first included and then removed by Tsoukalas and group in their final manuscript after our internal problems arose in late 2005.

Revankar and Xu were not named on the final Tsoukalas manuscript, nor did the group acknowledge any assistance they all received from ORNL (me and J.Cho).

Rusi

(PS: After doing the work with Clikeman's samples, Xu went off on his own and conducted his own experiments, did the data gathering, data analysis and reporting - his work was then published after peer review in NED journal and later in NURETH-11)

Dear Rusi,

I have asked Haiko to "peer-review" my forthcoming report. He asks me the question, "Doesn't the Tsoukalas paper contain the positive tritium yield?"

Here, <http://cat.inist.fr/?aModele=afficheN&cpsidt=18030593> , I see that the abstract says the following:

"An attempt to reproduce the tritium measurements in an acoustic cavitation experiment with deuterated acetone has shown no evidence of tritium production attributed to D-D fusion. The average number of disintegrations per minute observed is within 1Å of zero."

Is it possible that you have an electronic copy of the paper you could send me?

Thanks,

Steve

Date: Thu, 07 Jun 2007 10:00:27 -0400
From: Rusi Taleyarkhan
To: Steve Krivit
CC: Haiko Lietz
Subject: Re: Tsoukalas paper published in Nuclear Technology in 2006 (rpt->s.krivit;6.7.07)

Steve:

The positive tritium data were indeed removed and the message turned upside down. An earlier version of the paper had positive data in (see attached image of the Abstract) but then, after the strife and discords starting early-to-mid 2005 things changed dramatically.

Per your request, I'm attaching the 2006 Tsoukalas paper which appeared in Nucl.Technology.

Rusi

(PS: Their data were all taken and completed by 11/2003. An earlier, 2004 draft had the following conclusion from a transmittal that was sent to me by, I believe Revankar- it is a total surprise that, although, even as of Jan. 2005 when Tsoukalas was confirming a positive outcome with Colin Murray of BBC, that, in 2006 the Nucl.Tech. note appeared the way it did. You will note, that Revankar is not on the author list also. To my knowledge Tsoukalas did none of the experiments, but in the NT paper his name appears as the lead author.)