

**Exhibit 5**  
 Correspondence Announcing Tsoukalas Group's  
 Successful Tritium Results from Bubble Fusion Experiments at Purdue University

---

Subject: urgent  
 From: "Lefteri H. Tsoukalas" <tsoukala@ecn.purdue.edu>  
 Date: Fri, 14 May 2004 13:51:51 -0500  
 To: Rusi <Rusi@ecn.purdue.edu>, Rusi Taleyarkhan <taleyarkharp@ornl.gov>

Rusi,  
 Are you in a number I can call you to chat a bit.  
 Please go ahead with the Smalley idea, it is great! Let's coordinate with Jay and Linda.  
 Also, we have some major development's in Frank's work. Good news!!  
 Lefteri

[ANALYSIS RESULTS TRANSMISSION\(Tsoukalas to Taleyarkhan; 5.14.04\)](#)

ANALYSIS BY L.TSOUKALAS GROUP MEMBER (F.Clikeman) --> Transmitted by Tsoukalas to Taleyarkhan (5.14.04)

	Beckman Data		Beckman Data with Ultima Gold Stds.		NOTES
	DPM	$\pm \sigma$	DPM	$\pm \sigma$	
D-Acetone 7 hr run 9/19/03	3.50	2.7	2.16	3.36	
D-Acetone 7 hr run 9/24/03	3.60	2.3	4.13	2.53	
D-Acetone 7 hr run 9/26/03	0.05	2.8	-0.22	3.12	
D-Acetone 7 hr run 10/3/03	3.50	2.6	3.76	2.90	
Average of 1Ci Runs	<b>2.66</b>	<b>1.3</b>	<b>2.46</b>		<b>1.5 Positive tritium results</b> 1Ci test results
D-Acetone 7 hr Run 10/8/03	3.50	2.5	3.94	2.76	
D-Acetone 7 hr run 10/27/03	0.54	2.6	0.60	2.90	
D-Acetone 7 hr run 10/31/03	-0.16	2.1	1.50	2.75	
D-Acetone 7 hr run 11/3/03	-1.60	2.4	-1.55	2.68	
D-Acetone 7 hr run 11/7/03	2.00	3.6	2.47	4.00	
D-Acetone 7 hr Run 11/14/03	-1.60	2.9	-2.05	3.19	
<b>Average D-Acetone</b>	<b>1.45</b>	<b>0.8</b>	<b>1.56</b>		<b>0.96 Positive tritium results</b> Overall for 1Ci and 10 Ci tests
N-Acetone 7 hr Run 9/18/03	1.17	1.9	0.83	2.23	
N-Acetone 7 hr Run 10/15/03	-2.09	1.6	-1.82	1.76	
N-Acetone 7 hr Run 10/18/03	-2.16	1.8	-2.86	1.88	
<b>Average N-Acetone</b>	<b>-1.03</b>	<b>1.0</b>	<b>-1.28</b>		<b>1.14 Null (negative) results</b> for Control Expts.