Aug. 27, 2007 Purdue University Final Report of C-22 Inquiry Committee Appendix B – Tabulation of Allegations

(Retyped by Taleyarkhan from PURDUE Aug.27-Inq.Cmt.Report-To-ONR-AppendixB.pdf)

The Inquiry Committee received original allegations from the following individuals and organization:

- Office of Naval Research (ONR) (anonymous underlying sources)
- Kenneth Suslick (University of Illinois)
- Lefteri Tsoukalas (Purdue University)
- Seth Putterman (UCLA)
- Brian Naranjo (UCLA)
- Joshua Walter (Purdue University)

Some persons also endorsed or adopted by reference allegations that originated from others. Several of the allegations were duplicative, overlapping, or open-ended. The Inquiry Committee organized the allegations according to the publication or event that was the primary focus of the allegation.

Allegation Label	Allegation
/(Source)	
Group A	Publication: R. P. Taleyarkhan et al., Evidence for Nuclear Emissions During Acoustic Cavitation, <i>Science</i> 295, 1868 (2002)
A.1	Taleyarkhan used ²⁵² Cf to fabricate and/or falsify his bubble fusion replication results. Source: ONR
A.2	Taleyarkhan improperly omitted a negative sonofusion result by deleting the 5-18-01 draft's reference to tritium smear data that was consistent with background contamination. Source: Suslick
A.3	During the "initial refereeing process" for Taleyarkhan's Science publication, Taleyarkhan suppressed a null result obtained by Saltmarsh and Shapiro in Taleyarkhan's lab using Taleyarkhan's equipment. Source: Suslick
A.4	Taleyarkhan selectively processes his experimental data in order to create a misimpression of statistical significance. Source: Suslick
A.5	Figure 3 is replicated in later publications with subtle data movements. Source: Suslick, ONR
Group B	Publication: R. P. Taleyarkhan et al., Additional evidence of nuclear emissions during acoustic cavitation, <i>Physical Review Letters</i> 69, 036109 (2004)
B.1	Taleyarkhan used ²⁵² Cf to fabricate and/or falsify his bubble fusion replication results. Source: ONR
B.2	Taleyarkhan selectively processes his experimental data in order to create a misimpression of statistical significance.

	Source: Suslick
Group C	Y.Xu and A. Butt, Confirmatory experiments for nuclear emissions during acoustic
	cavitation. Nuclear Engineering and Design 235, 1317 (2005)
C.1	Taleyarkhan used ²⁵² Cf to fabricate and/or falsify his bubble fusion replication results.
	Source: ONR
C.2	Taleyarkhan intentionally left his name off the publication in order to create a misleading
	impression of independent confirmation of sonofusion.
	Source: Suslick
C.3	Taleyarkhan managed the generation of the research reported in the NED paper.
	Source: Tsoukalas
C.4	The Xu data must have been fabricated because there is no record of acquisition of
	previously unused deuterated acetone by personnel in the Xu/Taleyarkhan laboratory.
	Source: Tsoukalas
C.5	Taleyarkhan manipulated the press characterization of the Xu research to create a
C .3	misleading appearance of independent supervision by Tsoukalas.
	Source: Tsoukalas
C6	The NED and NURETH-11 papers rely upon falsified and/or plagiarized calibration data.
	Source: Tsoukalas
Group D	Publication: Y. Xu et al., Bubble Dynamics and Tritium Emission During Bubble Fusion
C. Cup 2	Experiments, (Oct. 2, 2005) Paper wi/abstract for 11 th international topical meeting on
	nuclear reactor thermal-hydraulics [NURETH-11]
D.1	Taleyarkhan used ²⁵² Cf to fabricate and/or falsify his bubble fusion replication results.
٠.١	Source: ONR
D.2	Taleyarkhan intentionally left his name off the publication in order to create a misleading
J.2	impression of independent confirmation of sonofusion.
	Source: Suslick
D.3	Taleyarkhan manipulated the press characterization of the Xu research to create a
2.0	misleading appearance of independent supervision by Tsoukalas.
	Source: Tsoukalas
Group E	Publication: R. P. Taleyarkhan et al., Bubble Nuclear Fusion Technology, Multiphase
- ducin	Science & Technology 17, 191-224 (2005)
E.1	MST data is the same as NED/NURETH data, lacking proper attribution to the original
	sources, leading to the claim that RT "was allegedly (wrongfully) presenting same results as
	outcome(s) of different experiments."
	Source: ONR
E.2	Taleyarkhan used ²⁵² Cf to fabricate and/or falsify his bubble fusion replication results as
L.2	reported in NED and NURETH-11.
	Source: ONR
E.3	Figure 8b of the MST paper plagiarizes Xu's NED Figure 8 and NURETH Figure 6.
L.J	Source: Suslick
Group F	Publication: R. P. Taleyarkhan et al., Nuclear Emissions During Self-Nucleated Acoustic
Group F	Cavitation, <i>Physical Review Letters</i> 96, 034301 (2006)
F.1	Taleyarkhan's "PRL publication improperly attributes the neutron energy spectrum to D-D
	fusion, despite evidence that it is inconsistent with the spectrum expected for D-D fusion
	and is consistent with the spectrum for ²⁵² Cf."
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Г Э	Source: ONR; Suslick; Putterman
F.2	Taleyarkhan was federally funded for the work reported in Physical Review Letters (PRL 96)

	and has since allegedly claimed he was not.
	Source: ONR
F.3	In January 2006, after spectrum analysis was conducted allegedly proving his use of 252Cf, Taleyarkhan published fabricated and/or false scientific statements in his
	PRL:"Introduction. –Previously, we have provided evidence [1(a),2-4] for 2.45 MeV neutron
	emission and tritium production during external neutron-seeded cavitation experiments
	with chilled deuterated acetone, and these observations have now been independently
	confirmed [5]." Taleyarkhan intentionally left his name off of the Xu publications in order
	to create a misleading impression of independent confirmation of sonofusion. Source: Suslick; ONR; Tsoukalas
Group G	Publication: R. P. Taleyarkhan et al., Reply, Physical Review Letters 97, 149404 (2006)
G.1	Taleyarkhan's response to the Naranjo critique was intentionally misleading
9.1	Source: Naranjo; Suslick
G.2	In his published response to a forensic analysis by Dr. Brian Naranjo, Taleyarkhan claims to
	show the same fusion data but, allegedly actually deleted some of his originally published
	results data on fusion signal.
	Source: ONR
Group H	Demonstration: August 2003 demonstration at ORNL
H.1	In an August 2003 experiment, Taleyarkhan displayed improper experimental technique an
	improperly attempted to enlist Walter and Bougaev as endorsing authors of a related
	publication.
	Source: Walter, Bougaev
Group I	Event: Early 2004 Harrassment/Intimidation
l.1	Taleyarkhan interfered with Walter's conduct of a cavitation cell experiment in January-
	February 2004 in RHPH G60.
	Source: Walter
Group J	Event: Miscellaneous intimidation
Group V	Source: Walter Demonstration: Demonstration in RHPH G60 on 9-19-03
Group K	
K.1	Taleyarkhan fabricated a fusion demonstration in RHPH G60. Source: Walter
Group L	Presentation: September 2005 presentation at Wayne State
L.1	Taleyarkhan falsely cited the Xu publications as an independent confirmation of sonofusion.
L. 1	Source: Suslick.
Group M	Demonstration: March 2006 DARPA demonstration
M.1	Taleyarkhan selectively published only his sonofusion signal detections and suppressed that
	his experiments usually yield a null result (1-in-15 produce a sonofusion signal).
	Taleyarkhan's failure to publish a null result from his DARPA-funded research, including the
	March 2006 Purdue demonstration, is suppression of lack of reproducibility.
	Source: Suslick; Putterman
M.2	Taleyarkhan selectively processes his experimental data in order to create misimpression of
	statistical significance.
	Source: Suslick
M.3	The March 2006 demonstration was a "bait and switch" designed to obstruct inquiry into
	replication of Taleyarkhan's published experiment configurations. Taleyarkhan obstructed
	inquiry into the demonstration and into archive of sonofusion equipment and data.
	Source: ONR; Suslick

M.4	Taleyarkhan altered records regarding charges to the ONR/DARPA accounts.
	Source: Tsoukalas.
Group N	Event: Purdue University's handling of June 2006 Suslick communication.
N.1	In June 2006, pursuant to Dr. Suslick's allegation that Dr. RT committed fraud; Purdue
	University officials did not conduct an inquiry into those allegations in violation of their own
	process.
	Source: ONR