

Falsified Results to Hide Helium-4 Produced from Normal Hydrogen
Michael McKubre's Replication of the Leslie Case Experiment

LENR investigation performed by Steven B. Krivit

Source Document: 2000 ICCF-8 Paper Presented by Michael McKubre

McKubre, M.C.H., et al. *The Emergence of a Coherent Explanation for Anomalies Observed in D/Pd and H/Pd System: Evidence for ^4He and ^3He Production*. in 8th International Conference on Cold Fusion. 2000. Lerici (La Spezia), Italy: Italian Physical Society, Bologna, Italy.

The Emergence of a Coherent Explanation for Anomalies Observed in D/Pd and H/Pd Systems; *Evidence for ^4He and ^3He Production*

Michael McKubre¹, Francis Tanzella¹, Paolo Tripodi¹ and Peter Hagelstein²

1 SRI International, 333 Ravenswood Ave. 94025 Menlo Park, CA (USA).

2 MIT, 77 Massachusetts Ave. 02139 Cambridge, MA (USA).

1. Control experiments are not identified. Experiments performed with D_2 vs. H_2 are not distinguished.
2. Time scale is truncated at 45 days.
3. McKubre claimed "no increase of 4He over long periods of time" in H_2 control cells."

Experiments in category "2" in which Pd on C catalyst materials were exposed to D_2 and H_2 gases for prolonged periods, exhibited a range of behaviors. Figure 2 summarizes 6 of 16 results obtained in paired cells.

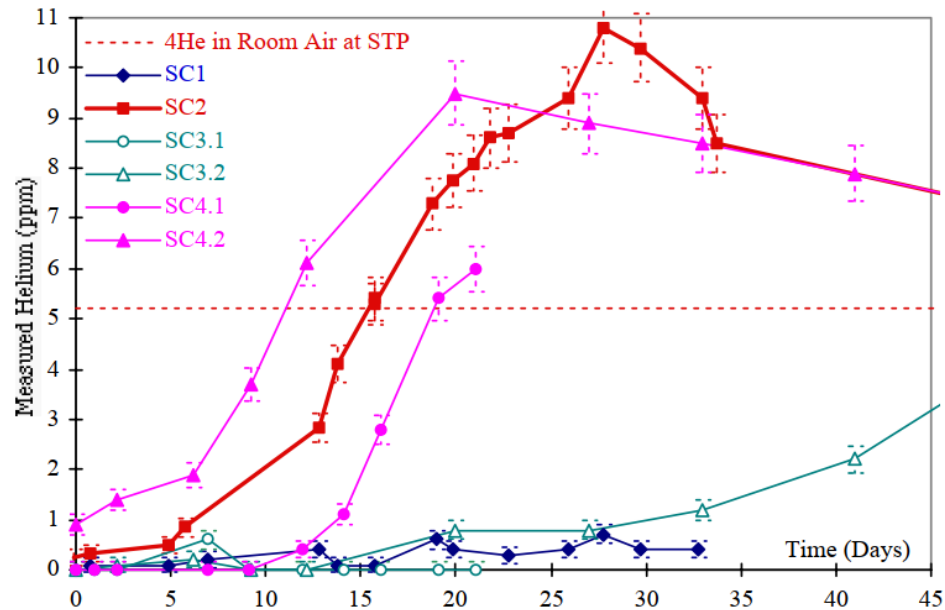


Figure 2 Helium increase in sealed cells containing Pd on C catalyst and D_2 (H_2) gas.

Using direct, on-line, high-resolution mass spectrometric measurement of [4He] we observed the following behaviors:

- (i) cells that show no increase of 4He over long periods of time (including all cells operated with H_2 instead of D_2);

Source Document: Summary of the LENR Results Presented to the Department of Energy for Its 2004 Review of LENRs

NEW PHYSICAL EFFECTS IN METAL DEUTERIDES

Peter L. Hagelstein,¹ Michael C. H. McKubre,² David J. Nagel,³
Talbot A. Chubb,⁴ and Randall J. Hekman⁵

¹*Massachusetts Institute of Technology, Cambridge, MA*

²*SRI International, Menlo Park, CA*

³*The George Washington University, Washington DC*

⁴*Research Systems Inc., Arlington, VA*

⁵*Hekman Industries, LLC, Grand Rapids, MI*

The experimental evidence for anomalies in metal deuterides, including excess heat and nuclear emissions, suggests the existence of new physical effects.

Same Graph; Same Claims

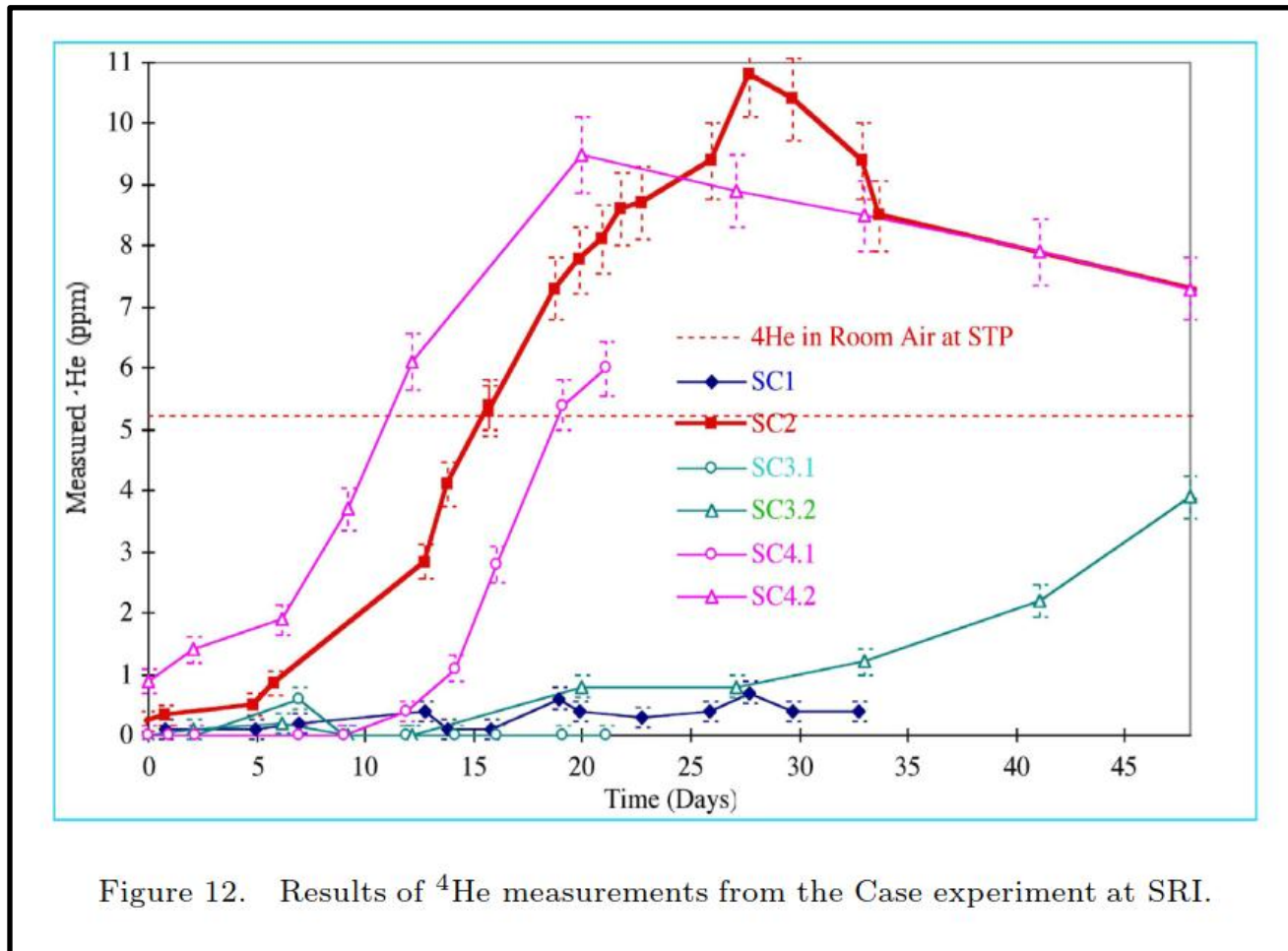
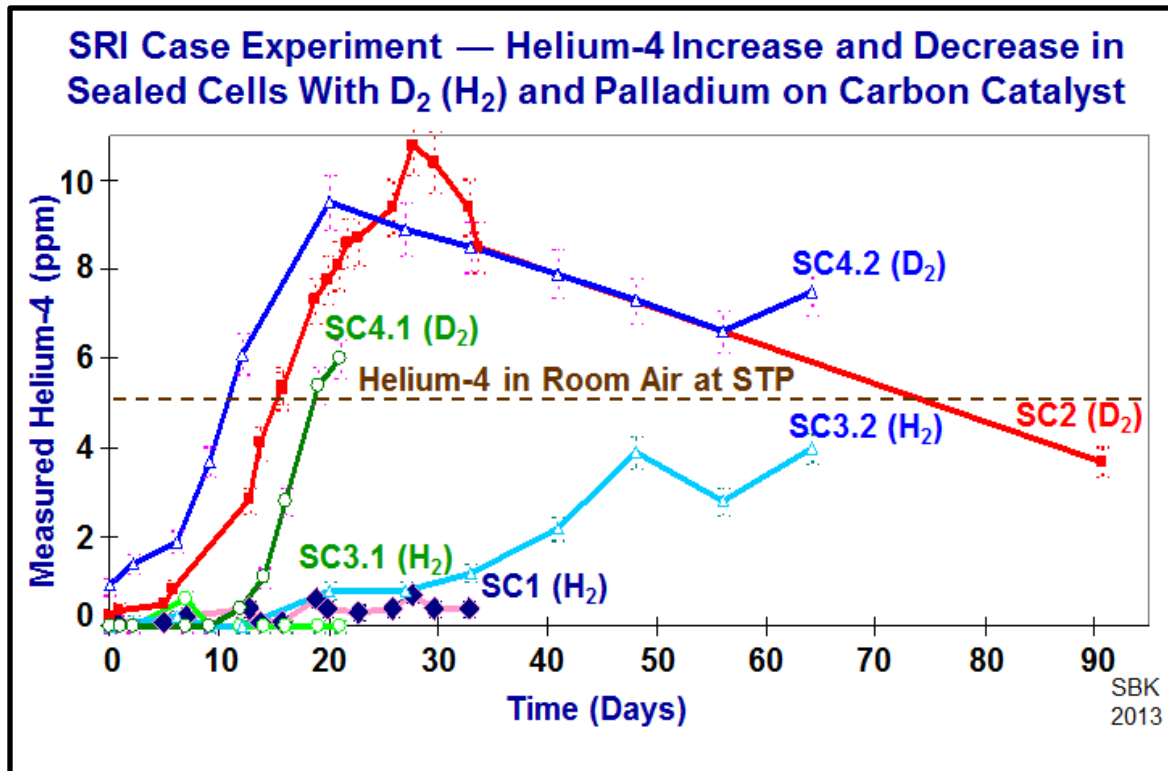


Figure 12. Results of ^4He measurements from the Case experiment at SRI.

Graph: Generated by Steven Krivit
Data: Embedded Data in Michael McKubre's PowerPoint File

1. Control experiments are identified. Experiments performed with D_2 vs. H_2 are labeled.
2. Full time-scale to 90 days is displayed.
3. Experiment SC3.2 shows increase of 4He over long period of time in an H_2 control cell.
4. McKubre has never published the full-time scale or the remaining 10 results and never labeled the control experiments.



Excerpt from [Hacking the Atom](#), by S.B. Krivit (2016)

McKubre's Hidden Helium

In the same 2000 paper in which McKubre first publicly reported experiment M4, he also publicly reported another helium-producing LENR experiment. He displayed helium measurements obtained from his group's replication of Leslie Case's 1998 deuterium-gas experiment. The paper contained a graph similar to the one below, with two major exceptions. McKubre and Peter Hagelstein also displayed the graph in their paper presented to DOE reviewers in 2004. (Hagelstein, 2004)

The first difference is that McKubre displayed the results only from Days 0-45. He did not inform readers that any of the experiments ran past Day 45. The second difference is that, although McKubre provided the labels for each run — for example, SC4.1 — he failed to identify which runs used deuterium gas and which ones used hydrogen gas. I know of no document in which McKubre has ever publicly distinguished the deuterium from the hydrogen runs.

In the text of his paper, McKubre wrote that the experiments "show no increase of helium-4 over long periods of time (including all cells operated with H₂ instead of D₂)." This is not true. I learned the truth by examining the data embedded in McKubre's slides.

In 2004, while I was writing *The Rebirth of Cold Fusion*, I told McKubre that I wanted to publish his helium results in my book but that I needed to adjust the aspect ratio of the image so it would fit. He sent me his PowerPoint slide with the graph. A few years later, I became curious about the poorly identified curves, and to my great surprise, I found that the raw experimental data were embedded in the slide. With a few clicks, I was able to modify the graph to see the data out to Day 90. The embedded data also clearly showed which runs had been performed with deuterium gas and which ones had been performed with normal hydrogen gas. I learned not only that the deuterium runs — the three curves that rise steeply — produced helium-4 but that one of the normal hydrogen gas runs (SC3.2) also produced helium-4. McKubre had concealed the data because it invalidated the D+D fusion idea.

Falsified Data Given to DOE

May 2004 was an historic time for the field of low-energy nuclear reaction research. That year, the Department of Energy agreed to take a second look at LENRs.

The review was a response to a request from David Nagel, Peter Hagelstein, Michael McKubre, and Randall Hekman. The DOE asked the proposers to write a single review paper that would "provide a summary of the status of the field which articulates what are considered to be the most recent significant experimental observations and publications, and identifies those areas where additional work would appear to be warranted based upon what has been learned from progress in this area."

Hekman later explained to *New Energy Times* his view of how Hagelstein and McKubre botched the opportunity. See [U.S. Department of Energy 2004 LENR Review — The Inside Story](#)

McKubre included his results from the Case replication, as described in the previous pages of this document.

Additionally, he presented a falsification of the [M4 experiment](#).

Both falsifications were intended to provide support for the theory of "cold fusion."