

Figure 6 data for New Result on Anomalous Heat Production in Hydrogen-loaded Metals at high Temperature

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Notes from Jed Rothwell

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Dr. Jiang recently published PowerPoint slides titled New Result on Anomalous Heat Production in Hydrogen-loaded Metals at high Temperature, describing an experiment with Ni-LAIH₄. The slides are here:

<https://www.scribd.com/doc/267085905/New-Result-on-Anomalous-Heat-Production-in-Hydrogen-loaded>

See also:

Songsheng Jiang Answers Questions on LENR Replication Report

<http://www.e-catworld.com/2015/06/01/songsheng-jiang-answers-questions-on-lenr-replication-report/>

Figure 6 in these slides is titled, “Computer on-line displays the temperatures of thermocouple T1, T2 and T3, and pressure, power voltage and current.” It is a photograph of the computer on-line display. Because it is a photograph, the data is difficult to make out. To make it easier to see, Dr. Jiang sent me two slides showing the same data as Figure 6 in an Acrobat document, here:

<http://lenr-canr.org/Collections/Jiang%20DATA%202015-May-04%20to%20May-07.pdf>

This document contains the slides with the heading translated into English, the legend colors defined, and some notes added to the first graph. Two “printer friendly” versions of the slides are also included below with the black background color removed.

Here are some notes about these graphs based on e-mail messages from Dr. Jiang

The total run time was 96 hours.

These are K-type thermocouples which have a maximum operating temperature of 1372°C. They may be damaged or melted at 1420°C.

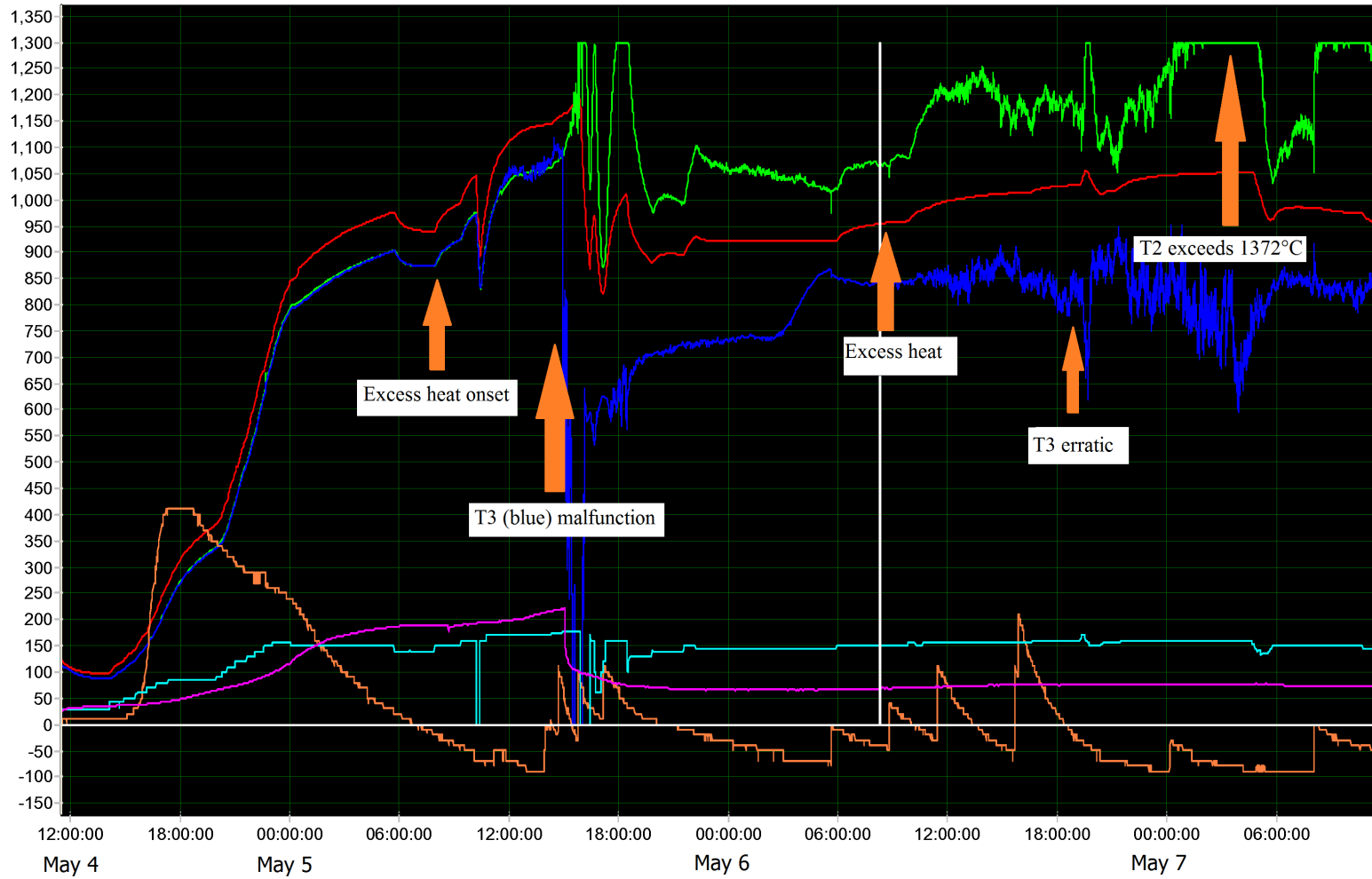
As shown in Fig. 1 of the PowerPoint slides, T4 is placed on the outside of the insulation. Note that a fan was used to cool T4 at times, so it was closer to ambient temperature than the cell temperature. However, on May 5 the T4 temperature does rise, which may indicate excess heat.

As noted in Jiang's PowerPoint slides, T3 failed during the test. It failed May 5 at around 12:00, at a temperature of approximately 1050°C.

T2 continued to function. At times during the experiment it exceeded the maximum operating temperature for K-type thermocouples. The T2 green line is flat during these instances, and the maximum temperature the thermocouple was exposed to is not known. After the experiment ended, on May 11, T2 also failed.

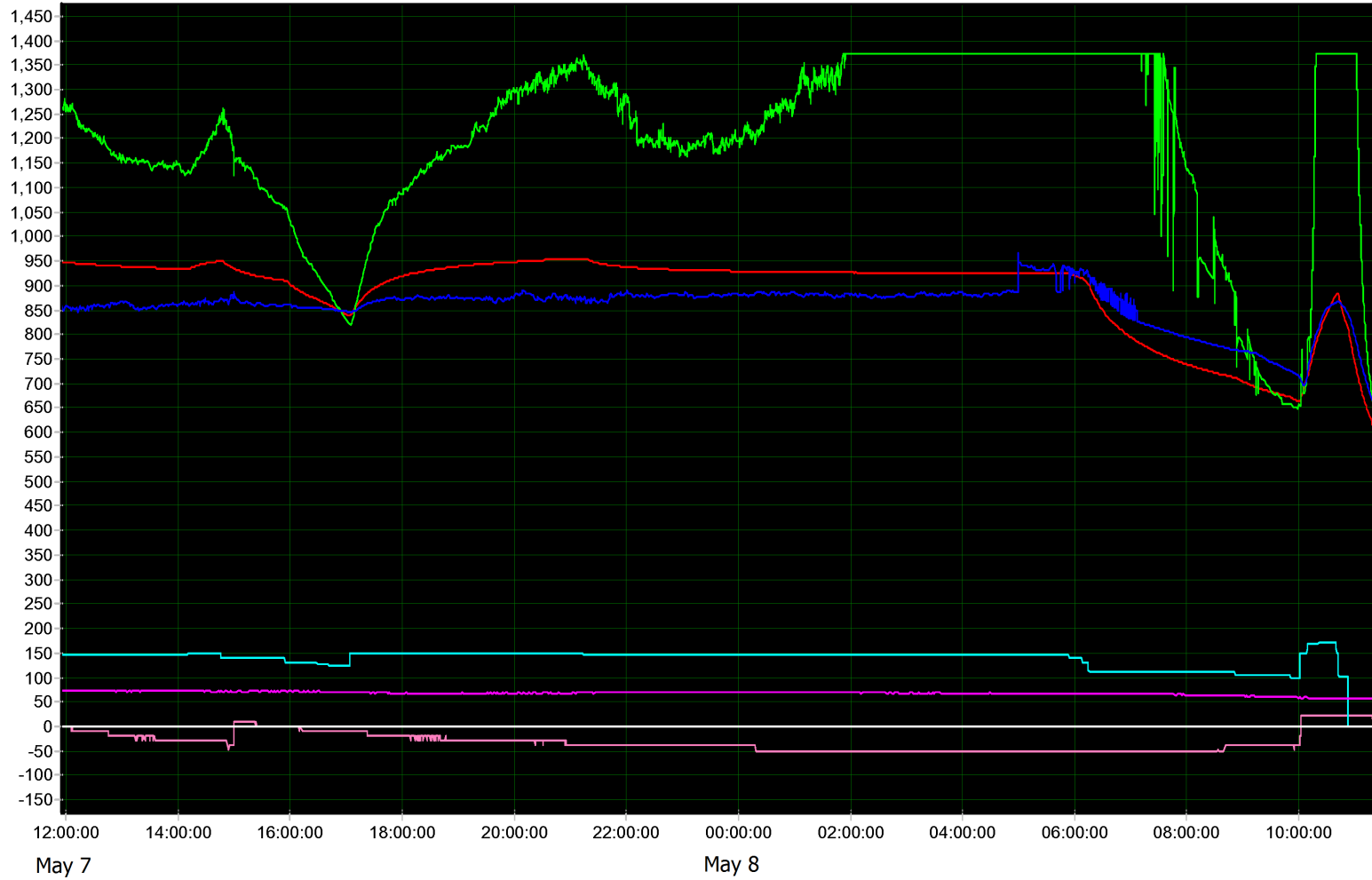
Channel 8 (white line) was not in use, and the line shown on this graph has no significance.

8-channel digital recorder, 2015-May-4 11:30:00 -- 2015-May-07 11:24:30



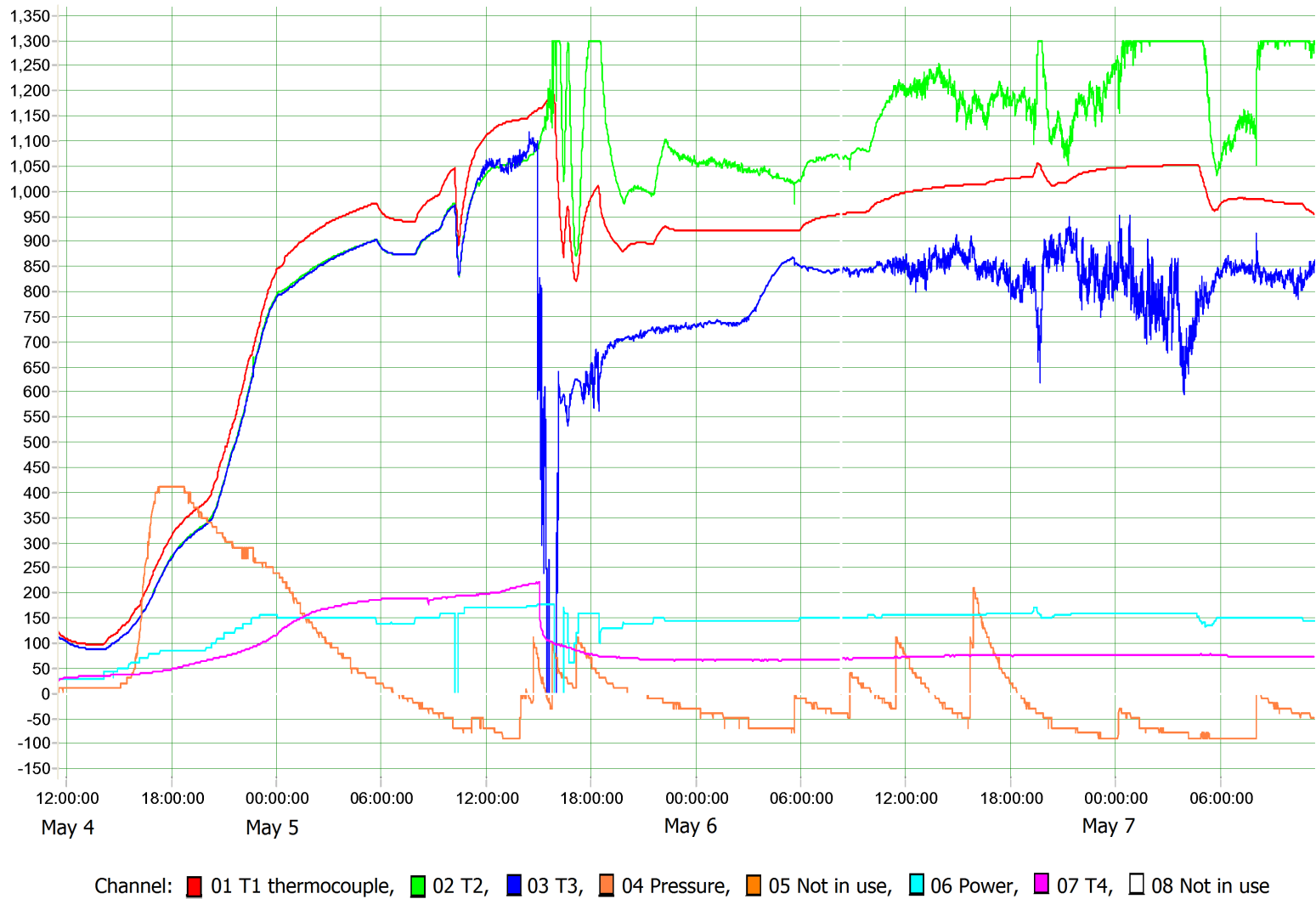
Channel: 01 T1 thermocouple, 02 T2, 03 T3, 04 Pressure, 05 Not in use, 06 Power, 07 T4, 08 Not in use

8-channel digital recorder, 2015-May-7 11:55:04 -- 2015-May-08 11:21:49

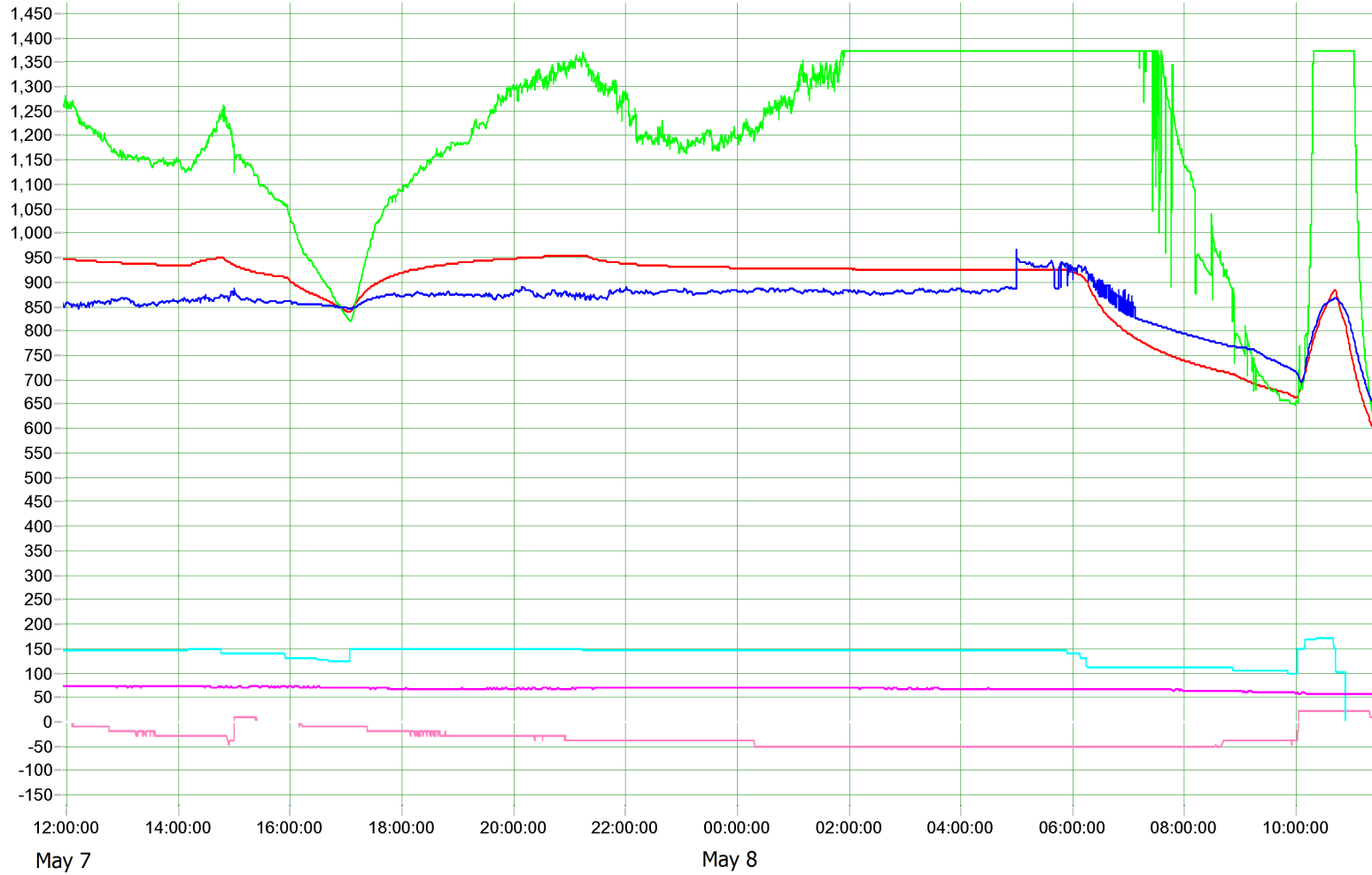


Channel: 01 T1 thermocouple, 02 T2, 03 T3, 04 Pressure, 05 Not in use, 06 Power, 07 T4, 08 Not in use

8-channel digital recorder, 2015-May-4 11:30:00 -- 2015-May-07 11:24:30



8-channel digital recorder, 2015-May-7 11:55:04 -- 2015-May-08 11:21:49



Channel: ■ 01 T1 thermocouple, ■ 02 T2, ■ 03 T3, ■ 04 Pressure, ■ 05 Not in use, ■ 06 Power, ■ 07 T4, ■ 08 Not in use