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常温核融合現象 CFP (The Cold Fusion Phenomenon)は、「開いた(外部から粒子とエネルギーを供給され、背景放射線に曝された)、非平衡状態にある、高密度の水素同位体(Hand/D)を含む固体中で起こる、核反応とそれに付随した事象」を現す言葉で、固体核物理学(Solid-State Nuclear Physics)あるいは凝集体核科学(Condensed Matter Nuclear Science) に属すると考えられています。

CFRL ニュース No.98 をお送りします。この号では、次の記事を掲載しました。

1. 4 編の論文が *Proc. CFRL* で発行されました。

JCF16 で発表した 4 編の論文の extended versions を *Reports of CFRL* **46 - 49** として発行し、CFRL website;
http://www.geocities.jp/hjrfq930/Papers/paperr/paperr.html
に掲載しました。

(1) H. Kozima, "**Nuclear Transmutations in Polyethylene (XLPE) Films and Water Tree Generation in Them (2)"** *Reports of CFRL* (*Cold Fusion Research Laboratory*) **16-1**, 1 – 6 (February, 2016)

(2) H. Kozima, "**Biotransmutation as a Cold Fusion Phenomenon,"** *Reports of CFRL* (*Cold Fusion Research Laboratory*) **16-2**, 1 – 25 (February, 2016).

(3) H. Kozima and K. Kaki, "**The Cold Fusion Phenomenon and Neutrons in Solids,"** *Reports of CFRL* (*Cold Fusion Research Laboratory*) **16-3**, 1 – 43 (February, 2016)

(4) H. Kozima, "**From the History of CF Research – A Review of the Typical Papers on the Cold Fusion Phenomenon –**," *Reports of CFRL (Cold Fusion Research*

Laboratory) **16-4**, 1 – 43 (February, 2016).

2. E-Cat のその後の情報

Andrea Rossi の E-CAT (Energy Catalyzer) については、このニュースでも何回かとりあげてきましたが、最近のE－Cat World に、1 MW プラントの 1 年間の試行実験が終了したとの報告が出ていますので、その記事を紹介します。実験結果については、実験を行った第三者機関による報告が出される予定とのことです。

17/02/2016: A historic date to remember

After one year of uninterrupted operation, the 12-months test on the world's first 1 MW power plant - for the production of steam for industrial process and powered by four 250 kW E-Cat modules - was concluded on February 17, 2016 at 12 a.m.
Andrea Rossi said that, for the results, we should wait the report that will be delivered by the third party entity which performed the measurements on the system during the period of operation. But, if the results will be positive, this date will be remembered, because it will put the bases to the use of a new form of low-cost, clean and safe energy: a kind of "New Fire" for humanity.

Andrea Rossi while flying on a private jet during one of his many business trips.
Thanks Andrea for your tenacity and for being able to show the world a new direction!
http://www.ecat-thenewfire.com/blog/17022016-historic-date-remember/

なお、E-Cat については、この *CFRL News* に何回か取り上げて、その物理的基礎についても考察をしております:

H. Kozima, “The TNCF Model and the E-Cat” was published in E-Cat World website. *CFRL News* No. 93 (2015. 05. 10).

H. Kozima, “Present Status of the E-CAT” C*FRL News* No. 86 (2014. 07. 01).

H. Kozima, “E-CAT and the Cold Fusion Phenomenon in Ni-H Systems” *CFRL News* No. 83 (2013. 12. 10),

H. Kozima, “Rossi has been granted US patent on the E-Cat,” *CFRL News* No. 97 (2015. 11.10).

US009115913B1

(12) **United States Patent**
Rossi

(10) **Patent No.: US 9,115,913 B1**
(45) **Date of Patent: Aug. 25, 2015**

(54) **FLUID HEATER**

(75) Inventor: **Andrea Rossi**, Miami Beach, FL (US)

(73) Assignee: **Leonardo Corporation**, Miami Beach, FL (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 609 days.

(21) Appl. No.: **13/420,109**

(22) Filed: **Mar. 14, 2012**

(51) **Int. Cl.**
F24J 1/00 (2006.01)

(52) **U.S. Cl.**
CPC ***F24J 1/00*** (2013.01)

(58) **Field of Classification Search**
USPC 122/16.1, 21
See application file for complete search history.

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Assistant Examiner — John Bargero
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(57) **ABSTRACT**

An apparatus for heating fluid includes a tank for holding fluid to be heated, and a fuel wafer in fluid communication with the fluid. The fuel wafer includes a fuel mixture including reagents and a catalyst, and an electrical resistor or other heat source in thermal communication with the fuel mixture and the catalyst.

10 Claims, 5 Drawing Sheets