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DOE Report 1989 and *DOE Report* 2004*

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It has passed by a quarter of a century since 1989 when the cold fusion phenomenon was discovered by M. Fleischmann and his colleagues. In this period, we have had very many papers and books on the various events in this field from neutron emission to nuclear transmutations not only in deuterium but also in protium systems. These events have shown participation of nuclear reactions in the processes which resulted in their products.

We have given a brief review of the works in this cold fusion phenomenon (CFP) [Kozima 2014d] and discussed their connection with the knowledge in nuclear physics [Kozima 2014a] at JCF14 held in Tokyo in December 2013 to bridge over the abyss between the science of the CFP and existing fields of science.

Unfortunately, we have lost communication with scientists in the existing fields almost in these long history over 25 years and have had no chance to publish papers in this field in periodicals published by scientific societies and publishers except few exceptional cases. One of these exceptional cases was the review paper by E. Storms appeared in the *Naturwissenshaften* and a critique on the paper by S. Krivit which were taken up in our review paper [Kozima 2014d].

Accordingly, we have lost communication from scientists in the outside world for a long period except several cases where they forced to respond the works obtained in the field of the CFP. Two of these fortunate cases was the investigation of the CFP by the Department of Energy, US Government who published their results as we refer to them as DOE Report 1989 [DOE 1989] and DOE Report 2004 [DOE 2004].

It is therefore, valuable to investigate their reports from our point of view established on the abundant experimental data we have at present. We have, however, to notice that the reports are written by scientists who were nominated by the DOE and asked to investigate limited materials in this field selected for their purpose – evaluation of the

results obtained by chosen investigators.

We have given a brief critique on the DOE Report 1989 in the former book [Kozima 1989] and on the DOE Report 2004 in the second book [Kozima 2004]. It is our pleasure if our critiques are useful in the evaluation of two reports to promote our research works in this field. The critique given in the Sec. 1.2 of the former book is posted at CFRL website:
http://www.geocities.jp/hjrfq930/Books/bookse/bookse01/chap1.htm

For the reader's convenience, we post the Executive Summary and the Conclusions and Recommendations of the DOE Report 1989 in this website next to the CFRL News No. 87;
http://www.geocities.jp/hjrfq930/News/news.html
The critique given in the Sec. 1.8 of the second book is posted at CFRL website:
http://www.geocities.jp/hjrfq930/Books/bookse/bookse03.html
For the reader's convenience, we post the Summary and selected Reviewer's Comment of the DOE Report 2004 in this website next to the CFRL News No. 87;
http://www.geocities.jp/hjrfq930/News/news.html

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[Kozima 2014d] H. Kozima, “The Cold Fusion Phenomenon – What is It?” *Proc. of JCF14:* **14-16**, pp. 203 – 230 (2014)