

Program of JCF8 Meeting  
(Japan CF-Research Society)

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Date and Place: November 29-30, 2007, at Kanbai-kan, Muromachi Campus,  
Doshisha University, Kyoto, Japan

Paper presentation: oral presentation 20 min. + discussion 5 min.,  
Language= English or Japanese

Book of Abstract: only available at JCF home page  
<http://dragon.elc.iwate-u.ac.jp/jcf/index.html>

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November 29, (Thur.), 2007

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9:00-9:50      **Registration**

9:50-10:00     **Opening Address** (E. Yamaguchi, Doshisha U. )

**Theory-1** (chairman: H. Numata, Tokyo Institute of Tech. )

10:00-10:25    **JCF8-1** H. Yamamoto: An explanation of earthquake lightning by cold fusion

10:25-10:50    **JCF8-2** S. Sasabe et al. (Tokyo Metropolitan U. ): Change of Coulomb potential of electron due to band structure in semiconductor

10:50-11:15    **JCF8-3** T. Sawada (RIMM): How the process change from  $d+d \rightarrow t+p$  (and  ${}^3\text{He}+n$ ) to  $d+d \rightarrow {}^4\text{He}$

11:15-11:40    **JCF8-4** T. Sawada (RIMM): Calculation of the bound states of the magnetic monopole and the small nucleus system

-----lunch (11:40-13:00)-----

**Experiment-1** (chairman: A. Kitamura, Kobe U. )

13:00-13:25    **JCF8-5** J. S. Gao et al. (Toyota Central R & D Labs ): Influence of sulfur and surface morphology on  $\text{D}_2$  permeation through Pd membrane

13:25-13:50    **JCF8-6** K. Tsuchiya et al. (Tokyo N. C. T. ): A new approach to observe optical phonon in hydrogen storage Pd using Raman spectroscopy. I

13:50-14:15    **JCF8-7** S. Asano et al. (Tokyo N. C. T. ): A new approach to observe optical phonon in hydrogen storage Pd using Raman spectroscopy. II

14:15-14:40    **JCF8-8** S. Narita et al. (Iwate U. ): Investigation of nuclear phenomena in deuterium diffusion from Pd heterostructure

-----break (20 min)-----

**Invited Papers** (chairman: A. Takahashi, Osaka U. )

15:00-16:15    **JCF8-9** Y. Arata (Osaka U. ): Towards the establishment of new energy production

16:15-16:40    **JCF8-10** A. Kishida et al. (U. of Hyogo): In-situ measurement and micro-beam analysis of nuclear transmutation reaction induced by  $\text{D}_2$  gas permeation through Pd complexes by X-ray fluorescence spectrometry.

16:40-18:00    **JCF Annual Meeting**

18:00-21:00    **Reception**

**November 30, (Fri.), 2007**

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**Theory-2** (chairman: T. Sawada, RIMM)

- 10:00-10:25 **JCF8-11** M. Fukuhara (Tohoku U. ): Approach to cold nuclear transformation
- 10:25-10:50 **JCF8-12** H. Kozima (CF Res. Lab. ): An explanation of nuclear transmutation in XLPE (Crosslinked Polyethylene) films with and without Water Trees
- 10:50-11:30 **JCF8-13** A. Takahashi (Osaka U. ): Chronicle of condensed cluster fusion models

-----lunch (11:30-13:00)-----

**Experiment-2** (chairman: E. Yamaguchi, Doshisha U. )

- 13:00-13:25 **JCF8-14** T. Jang et al. (Yokohama National U. ): Gas and heat balancing during plasma electrolysis
- 13:25-13:50 **JCF8-15** T. Yamaguchi et al. (Kobe U. ): Investigation of nuclear transmutation in  $(\text{CaO}/\text{Sr}/\text{Pd})_n/\text{CaO}/\text{Sr}/\text{Pd}$  samples
- 13:50-14:15 **JCF8-16** Y. Toriyabe et al. (Tohoku U. ): Radiation measurement during gas permeation experiment
- 14:15-14:40 **JCF8-17** H. Yamada et al. (Iwate U. ): Producing elements of mass number 137 and 141 by deuterium permeation on multi-layered Pd samples with Cs deposition

-----break (20 min)-----

**Theory-3** (chairman: S. Sasabe, Tokyo Metropolitan U.)

- 15:00-15:25 **JCF8-18** M. Ozaki (Tokyo U. of Agriculture): Effect of the energy level of a hydrogen atom due to magnetic moment interaction
- 15:25-15:50 **JCF8-19** H. Numata et al. (Tokyo Institute Tech. ): Numerical simulation of vortex pattern appeared on electrode surface after long term electrolysis of well annealed thick Pd rod in 0.1 M LiOD
- 15:50-16:15 **JCF8-20** M. Ban et al. (Tokyo Metro. Leather Tech. Center): Evolution of co-operative tunnel resonance in canonical ensemble system
- 16:15-16:40 **JCF8-21** N. Yabuuchi (High Sci. Res. Lab. ): The Pythagorean theorem and nuclear fusion in Platonic structures
- 16:40-17:20 **JCF8-22** H. Kozima (CF Res. Lab. ): The cold fusion phenomenon as a complexity (2) – Parameters characterizing the system where occurs the CFP –
- JCF8-23** H. Kozima (CF Res. Lab. ): The cold fusion phenomenon as a complexity (3) – Characteristics of the complexity in the CFP –

**Adjourn**