

# Program of JCF10 Meeting

(Japan CF-Research Society)

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**Date:** March 05-06, 2010

**Place:** The 11 and 12F of Hachioji-Tokyu-Square-Building, (Tel. : 042-646-5611,  
Fax: 042-646-2663), 9-1, Asashimachi, Hachioji, Tokyo, 192-0083, 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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## **March 05 (Fri. ), 2010 (at Seminar Room no.1)**

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12:00-13:00    **Registration**

13:00-13:10    **Opening Address** (K. Tsuchiya, N. C. T. )

**Experiment-1** (Chairman: E. Yamaguchi, Doshisha U. )

13:10-13:35    **JCF10-1** T. Hioki et al. (Toyota Central R & D Labs. ): Hydrogen/deuterium  
absorption capacity of Pd nanomaterials and its relation with heat  
generated upon loading of hydrogen isotope gases

13:35-14:00    **JCF10-2** Y. Toriyabe et al. (Tohoku U. ): D + D Fusion Acceleration in High  
Temperature Acoustic Cavitations

14:00-14:25    **JCF10-3** Y. Sasaki et al. (Kobe U. ): Measurements of heat and radiation  
from Pd nano-powders during absorption of hydrogen isotopes

14:25-14:50    **JCF10-4** Y. Miyoshi et al. (Kobe U. ): Two absorption/adsorption processes  
of hydrogen isotopes observed for Pd nano-powders

-----**break** (15 min)-----

**Theory-1** (Chairman: M. Fukuhara, Tohoku U.)

15:05-15:30    **JCF10-5** A. Takahashi (Technova Inc.) et al. : Role of PdO Surface-Coating  
of Pd Nano-Particle for D(H) Charging and Cluster Fusion

15:30-15:55    **JCF10-6** M. Ban (Tokyo Metropolitan Leather Technology Center) et al. :  
A power spectrum change by irregular edge of superlattice at tunnel  
resonance of CF

15:55-16:20    **JCF10-7** K. Tsuchiya et al. (Tokyo T. N. C. T. ): A theoretical study on the  
possible change of the phonon dispersion relation due to the nuclear  
reaction in solid II

16:20-17:00    **JCF Annual Meeting**

17:30-19:30    **Reception**

**March 06 (Sat.), 2010 (at Seminar Room no.1)**

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**Theory-2** (Chairman: K. Tsuchiya, T. N. C. T.)

- 10:00-10:25 **JCF10-8** N. D. Cook (Kansai U.) et al. : Simulation of Uranium and Palladium Fission Products Using a Lattice Model
- 10:25-10:50 **JCF10-9** H. Numata (Tokyo Institute of Tech.) et al. : Cellular Automata Numerical Simulation of Cascade Vortices
- 10:50-11:15 **JCF10-10** S. Sasabe (Tokyo Metropolitan U.) et al. : Abraham-Lorentz-Dirac Equation in Quantum Mechanics: The Beginning of Weakened Coulomb Potential
- 11:15-11:40 **JCF10-11** H. Miura : Computer Simulation of States of Hydrogen in Metals of Face Centered Cubic Lattice

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

**Experiment-2** (Chairman: A. Kitamura, Kobe U.) **(at Seminar Room no.2)**

- 13:00-13:25 **JCF10-12** Y. Toriyabe et al. (Tohoku U.): Charged Particle Detection during Gas Loading/Permeation Experiment with  $\Delta E - E$  Si Counter Telescope
- 13:25-13:50 **JCF10-13** H. Sasaki et al. (Iwate U.) : Search for Nuclear Events in Deuterium Discharge Experiment Using Multi-layered Metal Cathode
- 13:50-14:15 **JCF10-14** S. Narita et al. (Iwate U.): Anomalous Tracks Recorded on CR-39 in Deuterium Desorption Experiment
- 14:15-14:40 **JCF10-15** H. Yamada et al. (Iwate U.): Detection of Energetic Charged Particle from Thin Ni Cathode in Short Time  $\text{Li}_2\text{SO}_4/\text{H}_2\text{O}$  Electrolysis Using Track Detector CR-39

-----break (15 min)-----

- 14:55-15 :55 **Round-table Discussion on Experiment**  
(Chairman: H. Yamada, Iwate U.)

**Adjourn**