

Program of JCF10 Meeting

Japan CF-Research Society

Co-sponsored by The Thermal and Electric Energy Technology Foundation (TEET)

Date: March 05-06, 2010

Place: The 11 and 12F of Hachioji-Tokyu-Square-Building

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>

March 05 (Fri.), 2010 (at Seminar Room no.1)

12:00-13:00 **Registration**

13:00-13:05 **Opening Address** (K. Tsuchiya, N. C. T.)

13:05-13:10 **Cooperating Address** (K. Tomimura, TEET)

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 Periodicity 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)

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 Shortened $\text{Li}_2\text{SO}_4/\text{H}_2\text{O}$ Electrolysis Using Track Detector CR-39

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

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

Adjourn