# 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:  

### 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**  

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


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 $\triangle E - E$ Si Counter Telescope


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 Li$_2$SO$_4$/H$_2$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