

Program of JCF3 Meeting, October 25-26, 2001, at University Hall, Yokohama National University, Yokohama, Japan

October 25, 2001

- 9:00-9:50 **Registration**
- 9:50 **Opening Address** (K. Ota, Yokohama N.U.)
- 10:00 **Electrolysis: Light and Heavy Water** (chairman: A. Takahashi, Osaka U.)
- 10:00-10:25 **JCF3-1** H. Yamada et al. (Iwate U.): Nuclear Transmutation by Light Water Electrolysis with Palladium Cathode
- 10:25-10:50 **JCF3-2** M. Fujii et al. (Yokohama N.U.): HEAT MEASUREMENT DURING LIGHT WATER ELECTROLYSIS USING Pd RODS AND Pd/Ni RODS CATHODE
- 10:50-11:15 **JCF3-3** Y. Isobe et al. (Osaka U.): Study of Nuclear Reactions in Metal-Deuteride by Closed-Type D₂O Electrolysis
- 11:15-11:40 **JCF3-4** T. Mizuno et al. (Hokkaido U.): Neutron and Heat Generation from a Palladium Electrode by Alternate Absorption Treatment of Deuterium and Hydrogen
- Special Talk:** (chairman: A. Takahashi, Osaka U.)
- 11:40-12:15 **JCF3-5** F. Celani et al. (INFN-LNF): Electrochemical H-D loading of Palladium wires by hydro-alcoholic electrolytes related to the new discovered *Ralstonia* bacteria into heavy water.
- lunch** (12:15-14:00) ---
- 14:00 **Electrolysis: Plasma State** (chairman: T. Itoh, Mitsubishi H.I.)
- 14:00-14:25 **JCF3-6** T. Ohmori et al. (Hokkaido U.): Nuclear Transmutation from ³⁹K to ⁴¹K in the Plasma Electrolysis on Re in K₂CO₃/H₂O and D₂O Solutions
- 14:25-14:50 **JCF3-7** M. Matsunaka et al. (Osaka U.): Studies of Photon Source for Multi Photon Induced Fission under Plasma Electrolysis
- 14:50-15:15 **JCF3-8** T. Hanawa (Osaka U., Emeritus): Calorimetry of Submerged Carbon Arc.
- break** (10 min) ---
- 15:25 **Theory-1** (chairman: K. Ota, Yokohama N.U.)
- 15:25-15:50 **JCF3-9** T. Sawada (Nihon U.): Implications of ⁴He dominance in *d+d* reactions
- 15:50-16:15 **JCF3-10** T. Sawada (Nihon U.): Proposal to identify the 'nuclear active state'
- 16:15-16:40 **JCF3-11** H. Yamamoto: A Study on Anomalous Characteristics of Gasses Generated by under-water electric arc discharge with carbon electrodes
- 16:40-17:05 **JCF3-12** N. Yabuuchi (High Scientific Research Laboratory): Possibility of Nuclear Fusion in Solid
- 17:05-17:35 **JCF Annual Meeting**
- 18:00-20:00 **Reception**

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- 9:00 **Gas and Vacuum Phase Exp.** (chairman: T. Mizuno, Hokkaido U.)
- 9:00-9:25 **JCF3-13** A. Arapi et al. (Iwate U.): Generation of the new elements and isotopic changes on deuterated palladium electrodes under DC glow discharge.
- 9:25-9:50 **JCF3-14** S. Narita et al. (Iwate U.): Anomalous Heat Effect for Palladium Hydride in Gas Out-diffusion Method
- 9:50-10:15 **JCF3-15** T. Itoh et al. (Mitsubishi H.I.): Observation of low energy nuclear reaction induced by D gas permeation through the multilayer Pd film(1) -Transmutation of Cs into Pr-
- 10:15-10:40 **JCF3-16** M. Sakano et al. (Mitsubishi H.I.): Observation of low energy nuclear reaction induced by D_2 gas permeation through the multilayer Pd film(2) -Transmutation of Sr to Mo-
- **break** (10 min) ---
- 10:50 **Theory-2** (chairman: T. Ohmori, Hokkaido U.)
- 10:50-11:15 **JCF3-17** M. Fukuhara: Neutral Pion-Catalysed Fusion in Palladium Lattice
- 11:15-11:40 **JCF3-18** K. Tsuchiya (Tokyo N.C.T.): Effects of the Bose-Einstein Condensation to the Nuclear Reaction in Solids II
- 11:40-12:05 **JCF3-19** A. Takahashi et al. (Osaka U.): Cold Fusion and Clean Fission
- 12:05-12:30 **JCF3-20** M. Ohta et al. (Osaka U.): Analysis on fission in U-235 by SCS Model
- **lunch** (12:30-14:30) ---
- 14:30 **Beam Solid Interaction** (chairman: H. Yamada, Iwate U.)
- 14:30-14:55 **JCF3-21** K. Kamada (The Wakasa-wan Energy Reserch Center): Heating of Deuteron Implanted Al on Electron Bombardment and its Possible Relation to "Cold Fusion" Experiment
- 14:55-15:20 **JCF3-22** T. Hayashi et al. (Osaka U.): STUDIES OF NUCLEAR REACTIONS IN SOLIDS IN TITANIUM DEUTERIDE UNDER DEUTRON BEAM IRRADIATION
- 15:20-15:45 **JCF3-23** Y. Katayama et al. (Osaka U.): STUDIES OF NUCLEAR-REACTIONS-IN-SOLID IN TITANIUM-DEUTERIDE UNDER ION INPLANTWTION-III
-Experiments with proton and Si^{3+} beam implantation-
- 15:45-16:10 **JCF3-24** T. Dairaku et al. (Osaka U.): Analysis of Charged-Particle-Spectra Obtained under the Implantation of Ion Beam to TiD, TiDH and TiH
- 16:10-16:35 **JCF3-25** H. Mori et al. (Osaka U.): STUDIES OF NUCLEAR REACTIONS IN SOLIDS UNDER ELECTRON BEAM IRRADIATION TO METAL DEUTERIDE

Adjourn. (JCF4 will be held at Iwate U.)