

Program of JCF4 Meeting

(Japan CF-Research Society)

Date and Place: October 17-18, 2002, at Memorial Hall Ichiyu Kaikan, Iwate University, Morioka, Japan

**Paper presentation: oral presentation 15 min.+ discussion 5 min.,
language = English or Japanese**

Book of abstract: to be distributed at site, also to be available at JCF home page

**Proceedings paper: format = A4, 5 pages limit, 9 point letter (sample will be shown),
Dead line = November 30 (to be sent to Prof. Yamada, Iwate U.)**

October 17(THU), 2002

13:00-13:30 **Registration**

13:30-13:40 **Opening Address** (H. Yamada, Iwate.U.)

Electrolysis-1 (chairman: T. Mizuno, Hokkaido U.)

13:40-14:00 **JCF4-1** H. Numata (Tokyo Inst. Tech.): Performance of calorimeter and thermal behavior of deuterated metals in 0.1M LiOD

14:00-14:20 **JCF4-2** H. Inoue et al. (Yokohama N.U.): HEAT MEASUREMENT DURING LIGHT WATER ELECTROLYSIS USING FLOW CELL (III)

14:20-14:40 **JCF4-3** T. Sato et al. (Iwate U.): Analysis of Production Elements on Pd Surface after Light Water Electrolysis

14:40-15:00 **JCF4-4** S. Sasaki et al. (Iwate U.): Nuclear Reaction Occurring in Light Water Electrolysis on Gold and Cobalt Cathode Electrode

15:00-15:20 **JCF4-5** F. Celani et al. (INFN-LNF): Unexpected detection of new elements in electrolytic experiments with deuterated ethyl-alcohol, Pd wire, Sr and Hg salts

---break (20 min) ---

Theory-1 (chairman: T. Sawada, Nihon U.)

15:40-16:00 **JCF4-6** H. Yamamoto: Another Explanation of Pipe Rupture Incident at Hamaoka Nuclear Power Station Unit-1 from View Point of Cold Fusion

16:00-16:20 **JCF4-7** M. Ohta et al. (Osaka U.): Analysis on neutron induced fission of ^{235}U by SCS model

16:20-16:40 **JCF4-8** M. Fukuhara (Toshiba Tungaloy): Possible Nuclear Transmutation of Nitrogen in Atmosphere of Earth

16:40-17:00 **JCF4-9** H. Kozima (Portland State U.): Neutron Drops and Production of Larger Mass-Number Nuclides in Cold Fusion Phenomenon (CFP)

17:00-17:30 **JCF Annual Meeting**

18:00-20:00 **Reception**

October 18(FRI), 2002

Electrolysis-2 (chairman: K. Ota, Yokohama N.U.)

9:00-9:20 **JCF4-10** T. Ohmori et al. (Hokkaido U.): Positive and negative excess heat evolution and

corresponding new element production in light water electrolysis at high current density on palladium electrodes

9:20-9:40 **JCF4-11** T. Mizuno et al. (Hokkaido U.): Confirmation of anomalous hydrogen generation by plasma electrolysis

9:40-10:00 **JCF4-12** M. Matsunaka et al. (Osaka U.): Studies of Photon Source for Multi Photon Induced Fission under Plasma Electrolysis

10:00-10:20 **JCF4-13** T. Ohya et al. (Osaka U.): Studies of neutron emission by alternate electrolysis of heavy and light water with loading of deuterium into palladium

10:20-10:40 **JCF4-14** T. Hanawa : Problems in Calorimetry of Submerged Carbon Arc

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

Beam and Gas Phase Exp.-1 (chairman: H. Yamada, Iwate U.)

11:00-11:20 **JCF4-15** M. Miyamoto et al. (Kobe M.M.U.): Reaction yield enhancement under deuterium ion irradiation of deuterated Au/Pd samples

11:20-11:40 **JCF4-16** T. Itoh et al. (Mitsubishi H.I.): Observation of Low Energy Nuclear Reaction Induced by D₂ Gas Permeation through Pd Complex(1)

11:40-12:00 **JCF4-17** S. Sakai et al. (Mitsubishi H.I.): Observation of Low Energy Nuclear Reaction Induced by D₂ Gas Permeation through Pd Complex(2)

--- **lunch** (12:00-13:30) ---

Beam and Gas Phase Exp.-2 (chairman: A. Kitamura, Kobe M.M.U.)

13:30-13:50 **JCF4-18** H. Onodera et al. (Iwate U.): Analysis of Nuclear Products in Hydrogen Penetration through Palladium

13:50-14:10 **JCF4-19** N. Tanaka et al. (Iwate U.): Observation of Heat Evolution with Palladium Hydride in the Evacuated Chamber

14:10-14:30 **JCF4-20** N. Sato et al. (Iwate U.): Gamma Ray Measurement and Surface Analysis on Deuterated and Hydrated Palladium Electrodes under DC Glow-like Discharge

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

Theory-2 (chairman: H. Kozima, Portland State U.)

14:50-15:10 **JCF4-21** A. Takahashi (Osaka U.): DRASTIC ENHANCEMENT OF D-CLUSTER FUSION BY ELECTRONIC QUASI-PARTICLE SCREENING

15:10-15:30 **JCF4-22** A. Takahashi et al. (Osaka U.): Mass-8-and-Charge-4 Increased Transmutation by Octahedral Resonance Fusion Model

15:30-15:50 **JCF4-23** N. Yabuuchi (High Sci. Res. Lab.): Nuclear fusion and the structure of nuclei

15:50-16:10 **JCF4-24** K. Tsuchiya (Tokyo N.C.T.): A Possible Model for the Nuclear Reactions in Metal Vacancy Induced by Bose-Einstein Condensation

16:10-16:30 **JCF4-25** T. Sawada (Nihon U.): Rational basis of the nuclear fusion reaction at very low energy

16:30-16:50 **JCF4-26** M. Ban: Composition of 1/ f amplitudes electron wave and a work of one dimension of lattice

Adjourn.