< HYDROGENIUS 金属材料研究部門/ I^{2}CNER 水素適合材料研究部門/ HYDROMATE >

< HYDROGENIUS, I^{2}CNER & HYDROMATE Joint Research Symposium >

<日時>　2018 年 2 月 2 日（金曜日）9:20-17:20

<場所>　九州大学 伊都キャンパス 椎木講堂 3F Lecture Room

<言語>　英語

<プログラム及び講演者>

時間	プログラム・講演者
9:20-9:30	**Opening remarks** Prof. Hisao Matsunaga (Kyushu University)
	Chair Dr. Brian Somerday (Southwest Research Institute)
9:30-10:00	**Invited talk** Prof. Eiji Akiyama (Tohoku University) Electrochemical hydrogen permeation tests to study hydrogen embrittlement
10:00-10:30	**Invited talk** Prof. Abdelali Oudriss (University of La Rochelle) Some advances on the implication of crystalline defects on hydrogen diffusion and trapping mechanisms in fcc materials : Experimental and modelling approaches
10:30-11:00	**Invited talk** Prof. Ryosuke Matsumoto (Kyoto University) Atomistic Study of Hydrogen Effects on Stability and Mobility of Vacancy and Vacancy-Clusters
11:00-11:20	Break
	Chair Prof. Junichiro Yamabe (HYDROGENIUS, Kyushu University& HydroMate, AIST)
11:20-11:50	**Invited talk** Prof. Shuai Wang (University of Wisconsin) Collective dislocation behavior in the presence of hydrogen
11:50-12:20	**Invited talk** Prof. Bai An (AIST) Application of SPM-related nanotechnology in hydrogen embrittlement studies
12:20-13:20	Lunch
13:20-14:20	Poster Session
	Chair Prof. Arnaud Macadre (I2CNER, Kyushu University)
14:20-14:50	**Invited talk** Prof. Michal Lewandowski (TWI) Influence of high-pressure hydrogen atmospheres on mechanical performance of austenitic stainless steels at low temperatures
14:50-15:20	**Invited talk** Prof. Masanobu Kubota (I2CNER, Kyushu University) Effect of impurities added to hydrogen environment on fracture toughness of Cr-Mo steels with different strength levels

15:20-15:50	**Invited talk** Prof. James Burns (University of Virginia) The effect of microstructure on the hydrogen environment assisted cracking susceptibility of a precipitation hardened Ni-Cu alloy
15:50-16:10	Break
	Chair Dr. Akihide Nagao (JFE steel)
16:10-16:40	**Invited talk** Mr. Yuhei Ogawa (Kyushu University) Interpretation of hydrogen-assisted fatigue crack propagation in a pure BCC iron based on crack tip plasticity evolution
16:40-17:10	**Invited talk** Prof. Osamu Takakuwa (HYDROGENIUS, Kyushu University) Compatibility of Type 304 stainless steel to high-pressure hydrogen gas
17:10-17:20	**Closing remarks** Dr. Brian Somerday (Southwest Research Institute)