



INTERNATIONAL INSTITUTE FOR CARBON-NEUTRAL ENERGY RESEARCH

- HYDROGEN-MATERIALS INTERACTIONS -
HYDROGENIUS, I²CNER & HYDROMATE JOINT RESEARCH SYMPOSIUM
I²CNER HYDROGEN MATERIALS COMPATIBILITY DIVISION,
HYDROGENIUS FATIGUE AND FRACTURE DIVISION,
& HYDROMATE

DATE: FRIDAY, FEBRUARY 2, 2018

TIME: 9:20 AM-5:20 PM

VENUE: LECTURE ROOM, 3F, SHIKI HALL

Time	Speaker	Affiliation	Title
9:20-9:30	Prof. Hisao Matsunaga	Kyushu University	Opening Remarks
	Dr. Brian Somerday	Southwest Research Institute	<i>Chair</i>
9:30-10:00	Prof. Eiji Akiyama	Tohoku University	<i>Invited Talk</i> Electrochemical hydrogen permeation tests to study hydrogen embrittlement
10:00-10:30	Prof. Abdelali Oudriss	University of La Rochelle	<i>Invited Talk</i> 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	Prof. Ryusuke Matsumoto	Kyoto University	<i>Invited Talk</i> Atomistic Study of Hydrogen Effects on Stability and Mobility of Vacancy and Vacancy-Clusters
11:00-11:20	Coffee Break		
	Prof. Junichiro Yamabe	HYDROGENIUS, Kyushu University & HydroMate, AIST	<i>Chair</i>
11:20-11:50	Prof. Shuai Wang	University of Wisconsin	<i>Invited Talk</i> Collective dislocation behavior in the presence of hydrogen

11:50-12:20	Prof. Bai An	AIST	<i>Invited Talk</i> Application of SPM-related nanotechnology in hydrogen embrittlement studies
12:20-1:20	Lunch		
1:20-2:20	Poster Session		
	Prof. Arnaud Macadre	I ² CNER, Kyushu University	<i>Chair</i>
2:20-2:50	Prof. Michal Lewandowski	TWI	<i>Invited Talk</i> Influence of high-pressure hydrogen atmospheres on mechanical performance of austenitic stainless steels at low temperatures
2:50-3:20	Prof. Masanobu Kubota	I ² CNER, Kyushu University	<i>Invited Talk</i> Effect of impurities added to hydrogen environment on fracture toughness of Cr-Mo steels with different strength levels
3:20-3:50	Prof. James Burns	University of Virginia	<i>Invited Talk</i> The effect of microstructure on the hydrogen environment assisted cracking susceptibility of a precipitation hardened Ni-Cu alloy
3:50-4:10	Coffee Break		
	Dr. Akihide Nagao	JFE Steel	<i>Chair</i>
4:10-4:40	Mr. Yuhei Ogawa	Kyushu University	<i>Invited Talk</i> Interpretation of hydrogen-assisted fatigue crack propagation in a pure BCC iron based on crack tip plasticity evolution
4:40-5:10	Prof. Osamu Takakuwa	HYDROGENIUS, Kyushu University	<i>Invited Talk</i> Compatibility of Type 304 stainless steel to high-pressure hydrogen gas
5:10-5:20	Dr. Brian Somerday	Southwest Research Institute	Closing Remarks