## - HYDROGEN-MATERIALS INTERACTIONS -Hydrogenius, I<sup>2</sup>cner, and HydroMate Joint Research Symposium HYDROGENIUS Fatigue and Fracture Division, I<sup>2</sup>CNER Hydrogen Materials Compatibility Division, & HydroMate

## DATE: THURSDAY, JANUARY 30, 2020 TIME: 10:00-16:50 VENUE: CONFERENCE ROOM, SHIIKI HALL

Time	Speaker	Affiliation	Title
10:00-10:10	Hisao Matsunaga	Kyushu University	Opening Remarks
Chair	Brian Somerday	I <sup>2</sup> CNER	
10:10-10:45	Mohsen Dadfarnia	Seattle University	Toward Mechanistic Modeling of Hydrogen- Accelerated Fatigue Crack Growth
10:45-11:20	Osamu Takakuwa	Kyushu University	Temperature dependence of hydrogen- assisted fatigue crack growth of ferrite- pearlite steel in gaseous environment
11:20-11:55	Aurélie Laureys	Ghent University	Microscopic Evaluation of Hydrogen Induced Crack Initiation and Propagation in Multiphase Steels
11:55-13:20	Lunch		
Chair	Junichiro Yamabe	Fukuoka University	
13:20-13:55	Shenghu Chen	Chinese Academy of Sciences	Internal Hydrogen Effects on the Deformation and Fracture Behavior of Precipitation–hardened Fe–Ni–Cr Alloy
13:55-14:30	Thanh Tuan Nguyen	KRISS	Hydrogen-induced Fracture in X70 Pipeline Steel under Low Partial Hydrogen in a Mixture with Natural Gas
14:30-15:05	Brian Kagay	Sandia National Laboratories	Investigating Hydrogen-assisted Deformation of Oligocrystalline Austenitic Stainless Steel
15:05-15:30	Break		
Chair	Hisao Matsunaga	Kyushu University	
15:30-16:05	Takashi Matsuo	Fukuoka University	Hydrogen Storage Properties and Hydrogen Embrittlement of Ductile Cast Irons
16:05-16:40	Daisuke Takazaki	Kyushu University	Effect of Hydrogen on Creep Properties of SUS304
16:40-16:50	Brian Somerday	I <sup>2</sup> CNER	Closing Remarks