



INTERNATIONAL INSTITUTE FOR CARBON-NEUTRAL ENERGY RESEARCH

**- HYDROGEN-MATERIALS INTERACTIONS –
HYDROGENIUS AND I²CNER JOINT RESEARCH SYMPOSIUM
(I²CNER HYDROGEN MATERIALS COMPATIBILITY DIVISION
& HYDROGENIUS FATIGUE AND FRACTURE TEAM)**

DATE: FRIDAY, FEBRUARY 3, 2017

TIME: 9:20 – 17:20

VENUE: SHIKI HALL, KYUSHU UNIVERSITY

Time	Speaker	Affiliation	Title
9:20 - 9:30	Hisao Matsunaga	Kyushu University (Japan)	Opening remarks
9:30 - 10:00	Michihiko Nagumo	Waseda University (Japan)	Towards proper design and assessment of materials against hydrogen embrittlement
10:00 - 10:30	Pedro Rivera	University of Cambridge (UK)	Hydrogen in metals - from fundamentals to the design of new steels
10:30 - 11:00	Aleksandar Staykov	I ² CNER, Kyushu University (Japan)	Effect of hydrogen gas impurities on the Hydrogen dissociation on iron surface
11:00 - 11:20	Break		
11:20 - 11:50	Motomichi Koyama	Kyushu University (Japan)	Microstructural hydrogen detection and associated damage analysis in steels
11:50 - 12:20	Arnaud Macadre	I ² CNER, Kyushu University (Japan)	Hydrogen-induced austenite stabilization in a Cr-Ni alloy with various grain sizes
12:20 - 13:20	Lunch		
13:20 - 14:20	Poster session		
14:20 - 14:50	Jinyang Zheng	Zhejiang University (China)	Development status of high- pressure gaseous hydrogen vessels and piping
14:50 - 15:20	Joseph A. Ronevich	Sandia National Laboratories (USA)	Hydrogen accelerated fatigue crack growth of welded steel pipelines

15:20 - 15:50	Osamu Takakuwa	HYDROGENIUS, Kyushu University (Japan)	Effect of external and internal hydrogen on the tensile properties of austenitic stainless steel
15:50 - 16:10	Break		
16:10 - 16:40	Stefan Zickler	MPA Stuttgart (Germany)	Influence of Ni-Content on Fatigue Behavior of modified X2CrNi19-11 steel
16:40 - 17:10	Junichiro Yamabe	Kyushu University (Japan)	Breakthrough against the NASA database in hydrogen compatibility of metallic materials
17:10 - 17:20	Brian Somerday	Southwest Research Institute (USA)	Closing remarks