

**JOINT HYDROGENIUS AND I²CNER INTERNATIONAL
WORKSHOP ON HYDROGEN-MATERIALS INTERACTIONS 2017**

DATE: FRIDAY, FEBRUARY 3, 2017
VENUE: SHIIKI HALL, KYUSHU UNIVERSITY

- 9:20-9:30 **Opening Remarks**
Hisao Matsunaga (Kyushu University, Japan)
- 9:30-10:00 **Title:** Towards proper design and assessment of materials against hydrogen embrittlement
Michihiko Nagumo(Waseda University, Japan)
- 10:00-10:30 **Title:** Hydrogen in metals - from fundamentals to the design of new steels
Pedro Rivera (University of Cambridge, UK)
- 10:30-11:00 **Title:** Effect of hydrogen gas impurities on the Hydrogen dissociation on iron surface
Aleksandar Staykov (I²CNER, Kyushu University, Japan)
- 11:00-11:20 **Break**
- 11:20-11:50 **Title:** Microstructural hydrogen detection and associated damage analysis in steels
Motomichi Koyama (Kyushu University, Japan)
- 11:50-12:20 **Title:** Hydrogen-induced austenite stabilization in a Cr-Ni alloy with various grain sizes
Arnaud Macadre (I²CNER, Kyushu University, Japan)
- 12:20-13:20 **Lunch**
- 13:20-14:20 **Poster session**
- 14:20-14:50 **Title:** Development status of high-pressure gaseous hydrogen vessels and piping
Jinyang Zheng (Zhejiang University, China)
- 14:50-15:20 **Title:** Hydrogen accelerated fatigue crack growth of welded steel pipelines
Joseph A. Ronevich (Sandia National Laboratories, USA)
- 15:20-15:50 **Title:** Comprehensive understanding for ductility loss of various austenitic stainless steels with external and internal hydrogen
Osamu Takakuwa (HYDROGENIUS, Kyushu University, Japan)
- 15:50-16:10 **Break**
- 16:10-16:40 **Title:** Influence of Ni-Content on Fatigue Behavior of modified X2CrNi19-11 steel
Stefan Zickler (MPA Stuttgart, Germany)
- 16:40-17:10 **Title:** Breakthrough against the NASA database in hydrogen compatibility of metallic materials
Junichiro Yamabe (Kyushu University, Japan)
- 17:10-17:20 Closing remarks
Brian Somerday (Southwest Research Institute, USA)