- HYDROGEN-MATERIALS INTERACTIONS -

HYDROGENIUS, I^{2}CNER, AND HYDROMATE JOINT RESEARCH SYMPOSIUM 2021
HYDROGENIUS FATIGUE AND FRACTURE DIVISION,
I^{2}CNER HYDROGEN MATERIALS COMPATIBILITY DIVISION,
& HYDROMATE

< Date and hour > January 28th, 21:00—24:00 (Japan time)
January 29th, 21:00—24:00 (Japan time)
< Venue > Online (ZOOM Webiner)
< Language > English

< Program, January 28th, 21:00—24:00 >

Time	Presentation Title and Speaker
21:00-21:10	**Opening Remarks** Hisao Matsunaga (Kyushu University, Japan)
21:10-21:50	**Invited talk 1:** The Synergistic Action of HELP and HEDE Mechanisms of Hydrogen Embrittlement in Steels Milos B. Djukic (University of Belgrade, Serbia)
21:50-22:30	**Invited talk 2:** Study on Low Cycle Fatigue Property for a Hydrogen Pre-charged to 316L Stainless Steel Un-Bong Baek (KRISS, Korea)
22:30-22:40	Break
22:40-23:20	**Invited talk 3:** Hydrogen Influence on Mechanical Properties and Microstructure in Pipeline Steels for Subsea Hydrogen Gas Transport Anette Brocks Hagen (SINTEF, Norway)
23:20-24:00	**Invited talk 4:** Atomistic Simulation Activities at Sandia Xiaowang Zhou (Sandia National Laboratories, USA)

< Program, January 29th, 21:00—24:00 >

Time	Presentation Title and Speaker
21:00-21:40	**Invited talk 5:** Opening New Horizons in the Prediction of Hydrogen Embrittlement: Multi-physics Phase Field Fracture Emilio Martínez-Pañeda (Imperial College London, UK)
21:40-22:20	**Invited talk 6:** Scanning Kelvin Probe Force Microscopy Study on Hydrogen Distribution in Austenitic Stainless Steel Zhengli Hua (Zhejiang University, China)
22:20-22:30	Break
22:30-23:10	**Invited talk 7:** Hydrogen-induced Ductility-loss Accompanied with Intergranular Fracture in Pure Ni and Cu-Ni binary alloy Kentaro Wada (Fukuoka University, Japan)
23:10-23:50	**Invited talk 8:** Macroscale-based Approaches for Assessing the Influence of Hydrogen on the Deformation Behavior of Polycrystalline Ni Zachary D. Harris (University of Virginia, USA)
23:50-24:00	**Closing Remarks** Brian Somerday (University of Illinois at Urbana-Champaign, USA)