

- HYDROGEN-MATERIALS INTERACTIONS -
 HYDROGENIUS, I²CNER, AND HYDROMATE JOINT RESEARCH SYMPOSIUM 2021
 HYDROGENIUS FATIGUE AND FRACTURE DIVISION,
 I²CNER ADVANCED ENERGY MATERIALS DIVISION,
 & HYDROMATE

< Date and hour > January 28th, 21:00—24:00

January 29th, 21:00—24:00

< 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: TBD |
| 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: TBD 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) |