

- HYDROGEN-MATERIALS INTERACTIONS -

HYDROGENIUS, I²CNER, HYDROMATE AND SINTEF JOINT RESEARCH SYMPOSIUM 2023

< Date and hour > February 2nd (Thu), 20:00—23:00 (Japan time)
February 3rd (Fri), 20:00—23:00 (Japan time)
< Venue > Online (ZOOM Webinar)
< Language > English

Day 1 Program (February 2nd (Thu), 20:00—23:00)

Time	Presentation Title and Speaker
20:00-20:10	Opening Remarks Hisao Matsunaga (Kyushu University, Japan)

Session 1 (Chair: Hisao Matsunaga, Kyushu University)

20:10-20:50	Direct Observations of Hydrogen Atoms: Insights for Hydrogen Embrittlement Yi-Sheng Chen (The University of Sydney, Australia)
20:50-21:30	TBD Yoshinori Ono (NIMS, Japan)
21:30-21:40	Break

Session 2 (Chair: Vigdis Olden, SINTEF)

21:40-22:20	Characterisation of the hydrogen interaction with austenitic steels Lisa Claeys (Ghent University, Belgium)
22:20-23:00	Strain-life testing in hydrogen gas as a probe for materials effects May Martin (NIST, USA)

Day 2 Program (February 3rd (Fri), 20:00—23:00)

Time	Presentation Title and Speaker
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Session 3 (Chair: Masanobu Kubota, Kyushu University)

20:00-20:40	Hydrogen Diffusion Coupled with Crystal Plasticity FEM Adrienne Muth (Fraunhofer Institute for Mechanics of Materials IWM, Germany)
20:40-21:20	Reasonable Design Concept of Cr-Mo Steel Components in Consideration of Hydrogen Embrittlement Junichiro Yamabe (Fukuoka University, Japan)
21:20-21:30	Break

Session 4 (Chair: Brian Somerday, University of Illinois at Urbana Champaign)

21:30-22:10	Mechanical Performance Assessment of Subsea Pipeline Base Metals for Hydrogen Transport Aleksander Omholt Myhre (NTNU, Norway)
22:10-22:50	Microstructural Engineering to Achieve Low Cost, High Performance Solutions for Hydrogen Storage and Delivery Kip Findley (Colorado School of Mines, USA)
22:50-23:00	Closing Remarks Brian Somerday (University of Illinois at Urbana-Champaign, USA)