

1st Hydrogen-Symposium

Program overview



September 13, 2022

- 14:00 Arrival Deutsche Edelstahlwerke, Witten
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- 14:30 Plant tour
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- 18:30 Evening event Landhaus Grum, Hattingen

September 14, 2022

- 08:00 Arrival LWL-Industriemuseum Henrichshütte, Hattingen
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- 08:30 Welcome and antitrust information
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- 08:40 „The future of hydrogen - solutions from the Swiss Steel Group“
Dr. Till Schneiders, Vice President Technology & Quality, Deutsche Edelstahlwerke Specialty Steel GmbH & Co. KG

Session 1 | Hydrogen supply strategy

- 09:00 „Research and development for a successful ramp-up of the hydrogen economy“.
Till Mansmann MP, Innovation Officer „Green Hydrogen“, Federal Ministry of Education and Research
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- 09:15 „Hydrogen for the diversification and decarbonization of the European energy supply“
Dr. Philipp Wasmuth, Corporate Development & Strategy, Open Grid Europe GmbH
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- 09:35 „Hydrogen in the future energy system – Challenges and Trade-offs“
Dr. Julian Röder, Working group leader, Ruhr University Bochum, Chair of Energy Systems and Energy Economics
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- 09:55 „Hydrogen: From buzzword to reality“
Robert Baron, Director Corporate Strategy, Swiss Steel Group
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- 10:15 Break

Session 2 | Hydrogen resistant steels

- 10:45 „Material challenges and solutions for the use of hydrogen as an energy source“
Jens Jürgensen, Research assistant, Ruhr University Bochum, Materials testing
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- 11:15 „Local Hydrogen Analysis – non-destructive hydrogen measurements“
Dr. Gregor Manke, Managing Director, EURO-LABOR GmbH
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- 11:35 „Material selection for the use of hydrogen“
Dr. Hans-Günter Krull, Head of Research and Development, Deutsche Edelstahlwerke Specialty Steel GmbH & Co. KG
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- 11:55 „Stainless steels for hydrogen applications – an overview“
Dr. Thorsten Michler, Group manager lifetime concepts for Hydrogen applications, Fraunhofer IWM
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- 12:15 Lunch break

Session 3 | Industrial use of hydrogen

- 13:15 „The hydrogen fuel cell drive in the passenger car application and use of steel materials in the high-pressure storage system“
Dr. Klaas Kunze, Head of Hydrogen Storage Development, BMW AG
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- 13:45 „Hydrogen Engine for Power Generation and Non-Road Mobile Machinery“
Dr. Heinrich Bülte, Head of Thermodynamics & Emissions in the R&D Division, Deutz AG
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- 14:05 „Current issues in the evaluation of turbomachinery components for applications with compressed hydrogen“
Dr. Roland Herzog, Head of Material Technology, MAN Energy Solutions SE
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- 14:25 „Consideration of the effects of compressed hydrogen on the fuel-bearing components of large gas turbines using the example of a selected component“
Stefan Wanjura, Advisory Key Expert, Siemens Energy Global GmbH & Co. KG
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- 14:45 Break

Session 4 | Supply and use of hydrogen

- 15:15 „Materials-based innovations for the supply and use of hydrogen“
Prof. Dr. Tim Hosenfeldt, Senior Vice President Central Technologies, Schaeffler AG
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- 15:35 „Cost-optimized supply and effective use of ‚green‘ hydrogen: step-by-step decarbonization at the steel mill“
Tim Evison, Senior Vice President Clean Hydrogen; Davor Spoljaric, Senior Vice President Application Technology, Messer SE & Co. KGaA
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- 15:55 „Green hydrogen in steelmaking – Operational Implementation Challenges“
Gregor Ebberts, Head of Investments/Special Tasks Department, Deutsche Edelstahlwerke Specialty Steel GmbH & Co. KG
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- 16:15 „Heating of thermoprocessing plants with Hydrogen or hydrogen-natural gas mixtures“
Dr. Joachim Wüning, Managing Director, WS Heat Process Technology GmbH
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- 16:35-16:50 Summary / End of the symposium

Contact details

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