

Hydrogen Tech Days program

September 2024



Swiss
Steel
Group

Date

Hydrogen Tech Days 2024*

**powered by Swiss Steel Group.*

To address questions and foster broader knowledge on the future of hydrogen.

*The event will take place in the Ugitech Ugine plant area.
Precise locations will be communicated at a later stage.*

**November
13 & 14 2024**

Structure

Hydrogen Tech Days 2024		
One day	Half a day	Half a day – last day
Presentations	Visits	“Speed dating”
Opening session Incl. compliance rules	- Mill tour	- 1:1 time with technicians, sales colleagues (tbd)
Session 1 Session 2 Session 3	- R&D center	
	- Hydrogen Lab	

Presentations – preliminary program Hydrogen Tech Days 2024

Opening session

The Future hydrogen economy

- 08:30** **Doors opening, welcome**
- 09:00** Hydrogen Tech Days introduction powered by Swiss Steel Group including antitrust information
Patrick Larmarque – Swiss Steel Group Executive board member
- 09:10** The Role of Clean Hydrogen in the Energy Transition
Noe Van Hust – Vice Chairman IPHE & advisor IEA
- 09:35** Different value chains of green hydrogen
Luc Poyet, Florent Baudu, Sales Director (Industry), McPhy
- 10:00** Use of hydrogen to decarbonize the industry
Jérôme Desmoulières, Sales Dev. & Mktg Director, EMERSON
- 10:25** Policies to support green hydrogen for the decarbonization of industrial activities - Perspectives in the AURA region
Fabrice Pannekoucke, Vice President - Région Auvergne Rhône Alpes
- 10:40** **Break**

Session 1

Hydrogen Applications

- 10:55** High efficiency Solid Oxide Electrolyser technology to produce clean Hydrogen
Florence Lambert, CEO, GENVIA
- 11:20** Solutions for each step of hydrogen uses
Karsten Moh / Desiree Rich, Bus Dev Manager Hydrogen & Advanced Solutions, HYDAC
- 11:45** Hydrogen for the mobility: Introduction, challenges & opportunities
Daniele Ravizza, H2 Sales Manager, OMB
- 12:10** Stainless steels in H2 Internal Combustion Engine
Francois Dufour, TC Blois Materials Engineering Manager, PHINIA
- 12:35** **Lunch**

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Session 2

Use of hydrogen to decarbonize the industry

- 13:35** HYDREAMS project: demonstration of natural gas substitution by hydrogen for the heating process in the steel industry
Laurent Sieye, Sustainability Manager, Swiss Steel Group
- 14:00** Green hydrogen for industry decarbonization
Philippe Desorme, Vice CEO, LHYFE
- 14:25** Hydrogen assisted combustion
DI Dr. Martin Demuth, Senior manager Application Technology R&D, MESSER
- 14:50** JUPITER 1000 project: Industrial demonstrator of Power to gaz with Carbon Capture
Florent Brissaud, Power to gaz R&D Manager GRT – GAZ – RICE
- 15:15** Break

Session 3

Stainless Steel for H2 technologies

- 15:30** Testing facilities to investigate on hydrogen embrittlement at high pressure
Daniela Guedes, Girardin Gouesnou, R&D Engineers, Cetim
- 15:50** Hydrogen lab: characterizations of stainless steels under hydrogen exposure
Jamila Adem, R&D Engineer, Swiss Steel Group
- 16:10** High Strength Austenitic Stainless Steels for applications at high Pressure
Dr. Clara Herrera Tech. Customer Support, Swiss Steel Group
- 16:30** Effect of hydrogen at cryogenic temperatures on tensile properties of various 316L stainless steels
Christophe Mendibide & Laura Moli-Sanchez, French Corrosion institute
- 16:50** Influence of Hydrogen on Additively Manufactured Austenitic Stainless Steels
Dr. Brian Kagay, Head of Unit Influence of Hydrogen, Materials Testing Institute (MPA) University of Stuttgart
- 17:10** Latest investigations on the compatibility of metallic alloys with hydrogen using in situ SSRT testing
Louis Maksoud, Material Engineer, Air Liquide Advanced Tech.
- 19:30** Dinner

**Together.
For a future that matters.**