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WORKSHOP 6-7 JUNE 2017

HYDROGEN FUEL QUALITY ASSURANCE FOR PEM FUEL CELLS

3rd HYCORa workshop

Hydrogen quality assurance is a guarantor for PEM fuel cell life; thus, key to the success of hydrogen as an energy carrier.

Identifying critical needs to develop nozzle sampling methods and hydrogen contaminant analysis tools through data collection and modelling to guide research on impact on PEM fuel cells of selected hydrogen fuel contaminants by qualitative and quantitative risk assessment is in the focus of the HyCoRa project funded by FCH-JU.

The workshop will combine R&D and industry in the whole value chain, from hydrogen production via distribution/dispensing to end use, to discuss relevant hydrogen fuel quality topics.

Presentations will also summarize the final research results of the HyCora project to steer panel discussion eventually to allow OEM proving feedback and their views.

WORKSHOP OBJECTIVES:

HYDROGEN FUEL QUALITY ASSURANCE

RISK ASSESSMENT MODEL

OEM FEEDBACK

HYDROGEN FUEL SAMPLING

CONTAMINANT ANALYSIS

VENUE:

TRONDHEIM, NORWAY



SINTEF

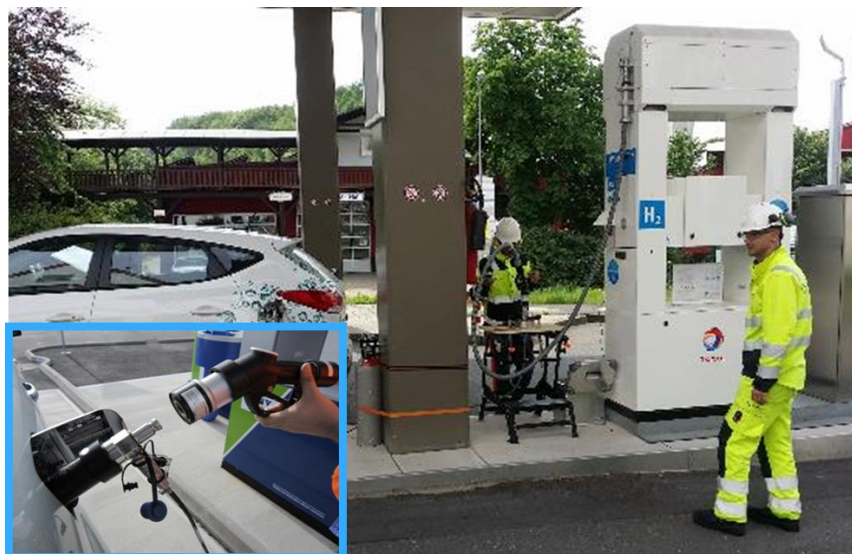


POWERCELL



AGENDA - Day 1

6 June 2017		Speaker
11:00-12:00	<i>Tour SINTEF H2 labs</i>	
13:00	<i>Arrival, registration and light lunch</i>	
13:30-13:40	Welcome & opening remarks	<i>Anders Ødegård, SINTEF</i>
13:40-14:00	HyCoRA project objectives, scope and brief summary of results	<i>Jaana Viitakangas, VTT</i>
14:00-14:20	The importance of fuel quality	<i>Felix Blank, Daimler</i>
14:20-14:40	Impurity sourcing from HRS	<i>Bjørn Gregert Halvorsen, NEL Hydrogen</i>
14:40-15:10	Break	
15:10-15:30	HYCORA impurity measurements: HCHO and HCOOH	<i>Jaana Viitakangas, VTT</i>
15:30-15:50	HYCORA risk assessment model	<i>Jari Ihonen, VTT</i>
15:50-16:10	Impact of CO and H ₂ S on single cell and stack performance	<i>Sylvie Escribano, CEA</i>
16:10-17:00	Discussions first day	All
20:00	Dinner	





Day 2

7 June 2017		Speaker
09:00-09:20	Results from 3 rd HyCoRA sampling campaign	<i>Ole Kjos, SINTEF</i>
09:20-09:40	Summary of HRS sampling and analysis in HyCoRa	<i>Thor A. Aarhaug, SINTEF</i>
09:40-10:00	Hydrogen fuel quality activities in Germany	<i>Christian Spitta, ZBT GmbH</i>
10:00-10:30	Break	
10:30-10:50	Analytical methods for hydrogen fuel QC	<i>Thomas Baquart, NPL</i>
10:50-11:10	Impurities from hydrogen production	<i>Bruno Gozlan, Air Liquide</i>
11:10-11:30	H ₂ -quality monitor	<i>Günther Schlumberger, ZSW</i>
11:30-11:50	Fuel quality standard revision	<i>Thor A. Aarhaug, SINTEF</i>
11:50-13:00	Lunch	
13:00-14:00	Discussion, feedback & recommendations	<i>All</i>
14:00	Closing remarks	
	End of workshop	

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