



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.







=HyCoRA

WORKSHOP OBJECTIVES:

HYDROGEN FUEL QUALITY ASSURANCE

RISK ASSESSMENT MODEL

OEM FEEDBACK

HYDROGEN FUEL SAMPLING

CONTAMINANT ANALYSIS

VENUE:

TRONDHEIM, NORWAY







AGENDA - Day 1

6 June 2017		Speaker
11:00-12:00	Tour SINTEF H2 labs	
13:00	Arrival, registration and light lunch	
13:30-13:40	Welcome & opening remarks	
13:40-14:00	HyCoRA project objectives, scope and brief summary of results	Jaana Viitakangas, VTT
14:00-14:20	The importance of fuel quality	Felix Blank, Daimler
14:20-14:40	Catalyst/MEA vs fuel quality	NN, TBC
14:40-15:20	Break	
15:20-15:50	HYCORA impurity measurements: HCHO and HCOOH	Jaana Viitakangas, VTT
15:50-16:10	HYCORA risk assessment model	Jari Ihonen, VTT
16:10-16:30	Impact of CO and H2S on single cell and stack performance	Sylvie Escribano / Irina Profatilova, CEA
16:30-17:30	Discussions first day	All
20:00	Dinner	









Day 2

7 June 2017		Speaker
09:00-09:20	Results from 3 rd HyCoRA sampling campaign	Ole Kjos, SINTEF
09:20-09:40	Summary of HRS sampling and analysis in HyCoRa	Thor A. Aarhaug, SINTEF
09:40-10:00	Impurity sourcing from HRS	Bjørn Gregert Halvorsen, NEL Hydrogen
10:00-10:30	Break	
10:30-10:50	Analytical methods for hydrogen fuel QC	Thomas Baquart, NPL
10:50-11:10	Impurities from hydrogen production	Bruno Gozlan, Air Liquide
11:10-11:30	Hydrogen fuel quality activities in USA/Germany	TBC
11:30-11:50	Fuel quality standard revision	Thor A. Aarhaug, SINTEF
11:50-13:00	Lunch	
13:00-14:00	Discussion, feedback & recommendations	All
14:00	Closing remarks	
	End of workshop	

There is no participation fee. Registration here before May 31st.

Workshop contact: Anders Ødegård +47 943 56 595 Anders.Odegard@sintef.no

Project coordinator: Jaana Viitakangas Tel. +358 40 567 3979 Jaana.Viitakangas@vtt.fi

