



**09 OCTOBER 2015**

## WORKSHOP

# HYDROGEN FUEL QUALITY ASSURANCE FOR PEM FUEL CELLS – RESULTS

### 2<sup>nd</sup> OEM 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 hydrogen fuel contaminants by qualitative and quantitative risk assessment is in the focus of the HyCoRa project funded by FCH-JU.

The presentation and discussion of project results with OEM is the primary aim of this workshop.

Presentations will summarize the current state of research conducted and the panel discussion allows providing OEM feedback and views.

WORKSHOP  
OBJECTIVES

HYDROGEN FUEL  
QUALITY  
ASSURANCE

RISK ASSESSMENT  
MODEL

OEM FEEDBACK

HYDROGEN FUEL  
SAMPLING

CONTAMINANT  
ANALYSIS

CENTRE ALBERT  
BORSCHETTE

Meeting room AB304

RUE FROISSART 36  
1040 BRUSSELS  
BELGIUM





## AGENDA

09 October 2015		Speaker
09:00	<i>Arrival</i>	
09:00-09:10	Welcome & opening remarks	<i>Georgios Tsotridis, JRC-IET</i>
09:10-09:20	Tour de table & workshop expectation discussion	<i>All</i>
09:20-09:50	HyCoRA project objectives, scope and brief summary of results	<i>Jari Ihonen, VTT</i>
09:50-10:40	DOE/LANL Hydrogen Fuel Quality Overview	<i>Tommy Rockward, LANL</i>
10:40-11:00	Discussion	<i>OEM</i>
11:00-11:15	Break	
11:15-11:45	Sampling and Analysis of hydrogen fuel from HRS in Europe	<i>Thor Aarhaug, SINTEF</i>
11:45-12:15	Discussion	HRS producer/operator
12:15-12:45	Recent development on hydrogen purity analysis	<i>Thomas Bacquart, NPL</i>
12:45-13:45	Lunch (60 minutes needed)	
13:45-14:05	Hydrogen fuel impurity testing - results	<i>Pierre-André Jacques, CEA</i>
14:05-14:25	Hydrogen purity analysis development in HyCoRA project	<i>Thor Aarhaug, SINTEF</i>
14:25-14:45	Risk assessment of hydrogen quality assurance - results	<i>Jari Ihonen VTT</i>
14:45-15:15	Discussion	<i>All</i>
15:15-15:35	Break	
15:35-16:10	OEM feedback & recommendations for 2 <sup>nd</sup> project half of HyCoRa	<i>All</i>
16:10-16:15	Closing remarks	<i>Georgios Tsotridis, JRC-IET</i>
16:15	End of workshop	



SINTEF

