

On-Line Workshop: Instrumentation Demands for Hydrogen & Bio-Fuels Thursday, 6th May 2021

Agenda (Time zone: CET)

12:00	Welcome and Introduction Ralf Obertacke (Siemens Energy), Ian Macafee (Oxsensis), Kamran Iqbal (Oxsensis)
Session 1: Combustion challenges (Chair: Pete Loftus)	
12:20	1.1 Cardiff University Gas Turbine Research Centre - Operational experiences with hydrogen, ammonia and bio-fuels. Stephen Morris (Cardiff University)
12:40	1.2 Combustion Challenges of Sustainable Gas Turbine Fuels – Focus on Hydrogen Peter Griebel (DLR)
13:00	1.3 Instrumentation needs for hydrogen co-combustion testing in heavy duty gas turbines Hannes Laget (Engie)
13:20	Coffee break (15 min)
13:35	Elevator pitches #1
Session 2: Control system challenges (Chair: Pete Loftus)	
13:50	2.1 Measurement challenges in hydrogen fuelled industrial gas turbines Jenny Larfeldt, Björn Karlsson (Siemens Energy)
14:10	Panel Discussion to evolve a Requirements Consensus Chair: Bjoern Karlsson
14:50	Coffee break (15 min)
15:05	Elevator pitches #2
Session 3: Applicable sensing technologies (Chair: Pete Loftus)	
15:20	3.1 Traceable Measurement of Hydrogen Thomas Kappes, Ehrler GmbH, ep-e.com (EP Ehrler Prüftechnik Engineering GmbH)
15:40	3.2 Characterisation And Validation Of An Optical Pressure Sensor For Combustion Monitoring At Low Frequency Gianluca Nicchiotti (Meggitt)
16:00	Elevator pitches #3
16:15	3.3 Fast responding, future proof gas composition analysis using Raman technology Michel Eskes (Hobre)
16:35	Coffee break (15 min)
16:50	3.4 Progress on Optical instrumentation techniques for advanced gas turbine combustion systems Ralf Pechstedt, Ian Macafee (Oxsensis)
17:10	Discussion around the remaining capability gaps and action needed to overcome them Chair: Ian McAfee
17:40	Closing remarks
17:45	End