

Conference Scheduler

DAY 1

Wednesday 28 June 2023

DAY 1	HYDROGEN PRODUCTION, STORAGE, AND INFRASTRUCTURE DEVELOPMENT	FUEL CELL TECHNOLOGY	LOW CARBON FUELS AND PROPULSION	CARBON CAPTURE, UTILIZATION AND STORAGE & BLUE HYDROGEN
09:00 AM	Opening Remarks: Tim Foggarty ■	Opening Remarks: Patrick Stone ■	Opening Remarks: TBA ■	Opening Remarks: Peter Jackson ■
09:15 AM	Houston as a Global Clean Hydrogen Hub ■	Decarbonizing Ultra Class Mining Trucks ■	Application of H2ICE Injection Technology on Commercial Vehicles ■	Global Overview of CCS ■
09:30 AM	Fueling the growth of Green Technologies in the United States ■	Mining, PGMs and Hydrogen - Aiming for a Goldilocks future ■	Liebherr's approach to Hydrogen-based internal Combustion Technology ■	Impacts of Policy Decisions and Incentives on the Evolution of CCUS Business Models in the United States ■
09:45 AM	ExxonMobil's Advancements in Low-Carbon Hydrogen Production ■	FCEV's and Stationary Fuel Cell Generator: Enabling a more reliable grid in a high BEV world ■	The Hydrogen Combustion Engine: A path to decarbonizing heavy industry ■	Carbon Capture & Storage - A vital component to the energy transition ■
10:00 AM				
10:15 AM				
10:30 AM	Break	Break	Break	Break
10:45 AM				
11:00 AM	The role of Retrofitted Gas Turbine Power Plants for Clean Hydrogen in a fully Decarbonized Generation Portfolio ■	Energy Conversion - PEM Water Electrolysis and the challenge of Precious Metals ■	Study of Technology fit and Market potential of Hydrogen use in ICE and Fuel Cells ■	Now Delivering Reliable and Affordable CCUS at Scale ■
11:15 AM	Autothermal Reforming Technology (ATR) Anchoring Low Carbon Hydrogen Generation, at large scale ■	Distributed energy solution using Hydrogen Fuel Cells ■	Connected Strategy for Hydrogen Value Chain with focus on Heavy-Duty Transport ■	Fostering CCUS with an Expanding Technology Portfolio ■
11:30 AM	Simulating Solid Oxide Electrolyzer Systems while scaling up ■	Panel Discussion - Platinum Group Metals: Mining, using and salvaging critical materials for Fuel Cell Technology ■	Panel Discussion - Forecasting HICE through 2030 and beyond in North America ■	Building a scalable Supply Chain to deliver gigaton scale Carbon Capture and Removal Plants ■
11:45 AM				
12:00 PM				
12:15 PM	Panel Discussion - Banking and Finance in the Hydrogen sector ■			Panel Discussion - Connecting Capture to Storage: Connecting the Links Across the CCUS Value Chain ■
12:30 PM		Lunch		
12:45 PM			Lunch	
01:00 PM				

01:15 PM	Lunch			Lunch	
01:30 PM					
01:45 PM					
02:00 PM	Modular system for on-site storage of large volumes of Gaseous Hydrogen ■	Tackling Degradation of PEM Fuel Cells with Modelling and Simulation Analysis on System Level ■	Are H2ICE viable for medium and heavy duty trucks? ■	Carbon Capture, Utilization and Sequestration CCUS - The time is now ■	
02:15 PM					
02:30 PM	Hydrogen Storage and Loadout Design Considerations ■	Heavy-duty Hydrogen Mobility - High Power and Durable Fuel Cell System Technology ■	Efficient Hydrogen Combustion for Heavy Duty Engines ■	Duoline 20 Fibreglass (GRE) Lined Tubing in Carbon Dioxide injection and Sequestration ■	
02:45 PM					
03:00 PM	Monitoring and Optimization Solutions for Hydrogen Production, Storage, and Infrastructure Development ■	Break	Development of a Class 8 Hydrogen ICE Truck, Part 1 - Steady State Engine Development ■	Accelerating use of hot Potassium Carbonate for CCS through 60 years of Learnings ■	
03:15 PM					
03:30 PM	Break	Next Generation H2 Production, Fuel Cell Design and Carbon Capture Optimization ■	Break	Break	
03:45 PM					
04:00 PM	Putting Hydrogen to work cleaning the Air, Land and Sea ■	Hydrogen Business at Honda ■	A Techno-Economic Assessment of Hydrogen use in Internal Combustion Engines and Fuel Cell based Powertrains ■	CO2 Compressors for CCUS Applications ■	
04:15 PM					
04:30 PM	Using Light-Driven Chemistry to produce Low-Carbon Hydrogen ■	Stationary SOFC: Market, Technologies, Opportunities ■	Improving Standardization of component reliability testing for Hydrogen-fueled vehicles ■	The role of CCS in the LNG value chain ■	
04:45 PM					
05:00 PM	Panel Discussion - Expected Technological Improvements from Fuel Cells through 2030 ■	Panel Discussion - How can the necessary infrastructure for distributing and using Liquid Hydrogen be developed? ■	Hydrogen-material Interactions in an ICE ■	Panel Discussion: Department of Energy Carbon Capture funding opportunities to accelerate towards Net-Zero 2050 ■	
05:15 PM					
	Closing Remarks: Melissa Morisson ■	Closing Remarks: Christopher Robertson ■	Closing Remarks: Dr Kunpeng Wang ■	Closing Remarks: Gary Hargraves ■	
	End Of Session	End Of Session	End Of Session	End Of Session	

Conference Scheduler

DAY 2

Thursday 29 June 2023

DAY 2	HYDROGEN PRODUCTION, STORAGE, AND INFRASTRUCTURE DEVELOPMENT	FUEL CELL TECHNOLOGY	LOW CARBON FUELS AND PROPULSION	CARBON CAPTURE, UTILIZATION AND STORAGE & BLUE HYDROGEN
09:00 AM	Opening Remarks: Danny Rehg ▣	Opening Remarks: Prof Christine Ehlig-Economides ▣	Opening Remarks: Veshal Venkat ▣	Opening Remarks: Greg Owen ▣
09:15 AM	Hydrogen Projects require Integrated Solutions ▣	PEM Fuel Cell Retrofit solution for the Marine Industry ▣	Using Hydrogen-fueled gas engine generators to reduce Carbon Footprint of distributed Energy Systems ▣	Carbon Capture invented for a changing world ▣
09:30 AM	Hydrogen reciprocating Compressors - Applications for the Energy Transition ▣	Engineering challenges in deploying bespoke FC solution to large Marine and Aerospace applications ▣	How Nuclear Power can enable Clean Hydrogen and Synthetic Fuel at scale ▣	Site selection criteria for retrofit CO2 Capture Technology ▣
09:45 AM				
10:00 AM	The use of Primary Controlled Drive Technology in Compression ▣	Titanium bipolar plates for Aviation: What is essential for the production? ▣	Low-Carbon Fuels for power generation ▣	BECCS by Drax ▣
10:15 AM				
10:30 AM	Break	Break	Break	Break
10:45 AM				
11:00 AM	Bringing value in the Hydrogen Liquefaction ecosystem through differentiated equipment and R&D collaboration ▣	Optimizing materials for PEM-Fuel Cell ▣	Hydrogen powered aviation through Digitalization ▣	Contributing to Carbon Neutrality - Gas Separation Membrane and monolith for Direct Air Capture System ▣
11:15 AM	Flashing Liquid Expanders for two-phase pressure letdowns in Liquefaction Processes ▣	German Fuel Cell cooperation: Efficient and scalable production equipment for bipolar plates ▣	A flight plan for global aviation to reach zero emissions ▣	NETL Direct Air Capture Center ▣
11:30 AM				
11:45 AM	Slush and Liquid Hydrogen in Storage and Transportation ▣	Panel Discussion - Fuel Cells and Batteries: Hydrogen enabling long duration energy storage as a compliment to batteries ▣	Panel Discussion - Considerations to make when building an eFuels Plant ▣	Advancing Direct Air Capture ▣
12:00 PM				
12:15 PM	Panel Discussion - Air, Land, Sea & Space ▣			Panel Discussion: Digitalization for Carbon Capture - How digital transformation can advance the lifecycle of CO2 projects ▣
12:30 PM				
12:45 PM		Lunch	Lunch	
01:00 PM				

	Lunch			Lunch
01:15 PM				
01:30 PM		Hydrogen and Fuel Cell Powered Aircraft ▣		
01:45 PM	Making Clean Ports a reality with Hydrogen ▣	LH2 System and Storage for H2 Fuel Cell Powered Aircraft ▣	Innovations and Developments in r-DME to Hydrogen for Fuel Cell ▣	Role of Electrical Drives and Machines in improvement of efficiency and reliability in Carbon Capture and Hydrogen Processes ▣
02:00 PM				
02:15 PM	Securing the Electric Power Conversion supply chain for Green Hydrogen & Carbon Capture. Are they the same cast of characters?	Filtration and membranes in a Hydrogen Economy ▣	Some advanced Process Technologies for production of Renewable Low Carbon Fuels and applications for Modern Propulsion Systems ▣	Oxygen-Fired Package Boiler System to produce Low-Carbon Intensity Electricity ▣
02:30 PM				
02:45:00 PM	Reducing the cost of Green Hydrogen - Every Microvolt Counts ▣	Break	Break	Japan, Australia and North America: Projects that captured CO2, pre and post combustion and Oxyfuel combustion ▣
03:00 PM	Break			
03:15 PM				
03:30 PM	Materials and Coatings Solutions to address Green Hydrogen Production challenges ▣	Advances in Composite Membranes Design and Scale up for Proton Exchange Membrane Water Electrolysis ▣	Innovations in Thermal Processing using H2 as Fuel Source ▣	Break
03:45 PM				
04:00 PM	Hydrogen blending in Natural Gas Pipelines ▣	High yield production of Polymer Electrolyte Membranes ▣	Navigating and building trust in an evolving Hydrogen Supply Chain ▣	DMX Technology, a breakthrough demixing solvent for Post Combustion CO2 Capture ▣
04:15 PM				
04:30 PM	How Hydrogen demand can be scaled through the Natural Gas Industry ▣	Series Production of Membrane Electrode assembly by means of a Double Belt Press ▣	Closing Remarks: Brian Petermann ▣	Carbon Capture application to Blue Hydrogen Production ▣
04:45 PM	Closing Remarks: Parul Dhall ▣			
	End Of Session			
05:00 PM		Closing Remarks: Kay Devlin	End Of Session	End Of Session