



A U.S. DOE Hydrogen Energy Earthshot Experts Meeting on...

Advanced Liquid Alkaline Water Electrolysis

Bringing leading experts and the research community together to discuss future R&D and manufacturing efforts

Sponsored by the DOE Hydrogen & Fuel Cell Technologies Office and the National Renewable Energy Lab

January 26-27, 2022

Virtual Meeting

Jan. 26 - Expert Presentations		Jan. 27 - Parallel Discussions	
11:00 AM	Welcome	11:00 AM	Break-out Discussion Logistics
11:30 AM	 Presentations, Part I Introduction Interface & Corrosion Challenges System & Integration Challenges 	11:15 AM	 Parallel Discussions, Round 1 Fundamental Degradation Mechanisms Characterization & Diagnostic Needs Performance Targets & Status Manufacturing Cell Integration
1:30 PM	Break	12:45 PM	Break
		1:15 PM	Report Out & Discussion
2:00 PM	 Presentations, Part II Cell-level Challenges Accelerated Stress Tests Technoeconomic Analysis 	2:00PM	 Parallel Discussions, Round 2 Technoeconomic & System Analysis Separator Materials Catalysts & Dimensionally Stable Anodes Porous Transport Layers Stack & System
4:15 PM	Wrap-up & Adjourn	3:30 PM	Break
		4:00 PM	Report Out & Discussion
		4:50 PM	Final Thoughts, Q&A, Adjourn

(Register to receive meeting login information)

All times in Eastern Standard Time (EST) and subject to change

Register Here





Jan. 26: Overview Presentations from Experts (Q&A to follow each individual presentation)

	Welcome, Context, & Overview of Workshop Goals
11:00 AM	Speakers: TBA, DOE Hydrogen & Fuel Cell Technologies Office
	Bryan Pivovar, National Renewable Energy Laboratory
11.20 444	Introduction to Liquid Alkaline Electrolysis
11:30 AW	Speaker: Marcelo Carmo, Nel Hydrogen US
12:15 PM	Cell & Stack Components (Interfaces & Corrosion Challenges)
	Speaker: Ed Revers, De Nora
	System & Integration Challenges
1:00 PM	Speaker: Joe Poindexter, <i>Teledyne</i>
1:30 PM	Break
2.00 PM	Cell-level Challenges
2:00 PM	Speaker: Steven Kloos, AquaHydrex
2 45 DN 4	Accelerated Stress Test (AST) Development
2:45 PIM	Speaker: Rangachary "Mukund" Mukundan, Los Alamos National Laboratory
	Component & System Technoeconomic Analysis
3:30 PM	Speaker: Brian James, Strategic Analysis
4:15 PM	Wrap-up and Adjourn

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Jan. 27: Parallel Break-out Discussions (Report out sessions after each round)

Round 1					
Session Title	Moderator	Scribe			
Fundamental Degradation Mechanisms	Rangachary Mukundan	Elliot Padgett			
Characterization & Diagnostic Needs	Debbie Myers	Haoran Yu			
Performance Targets & Status	James Vickers	Tobias Schuler			
Manufacturing	Alexey Serov	Colin Gore			
Cell Integration	Plamen Atanassov	Julie Fornaciari			
Round 2					
Session Title	Moderator	Scribe			
Session Title Technoeconomic & System Analysis	Moderator Mark Ruth	Scribe Anne Marie Esposito			
Session Title Technoeconomic & System Analysis Separator Materials	Moderator Mark Ruth Marcelo Carmo	Scribe Anne Marie Esposito Sandipkumar Maurya			
Session Title Technoeconomic & System Analysis Separator Materials Catalysts & Dimensionally Stable Anodes	Moderator Mark Ruth Marcelo Carmo Shaun Alia	Scribe Anne Marie Esposito Sandipkumar Maurya Ahmed Farghaly			
Session Title Technoeconomic & System Analysis Separator Materials Catalysts & Dimensionally Stable Anodes Porous Transport Layers	Moderator Mark Ruth Marcelo Carmo Shaun Alia Guido Bender	Scribe Anne Marie Esposito Sandipkumar Maurya Ahmed Farghaly Jason Keonhag Lee			