ICEPAG 2020
A Virtual Colloquium
Hydrogen: A Platform for Sustainability
Smart Grid   Mobility   Electricity   Storage   Economics   Microgrids September 14, 15, 16, 2020   UC Irvine

	Program Day 1: Monday, September 14
8:00 – 8:45 am	Colloquium Opening
	<ul> <li>Introduction to ICEPAG 2020</li> </ul>
	Scott Samuelsen and Jeffrey Reed
	UCI Advanced Power and Energy Program (APEP)
	<ul> <li>Keynote: Hydrogen Progress Around the Globe</li> </ul>
	Sunita Satyapal, U.S. Department of Energy
8:45 – 10:00 am	Hydrogen for On-Road Transportation – Light Duty Vehicles
	<ul> <li>Progress on Light-Duty Technology Advancement</li> </ul>
	Craig Scott, Toyota
	<ul> <li>Maintaining Market Momentum</li> </ul>
	Steve Ellis, Honda
	<ul> <li>Advances in Hydrogen Fueling Infrastructure</li> </ul>
	Tim Brown, FirstElement Fuel
10:00 – 10:30 am	BREAK (LUNCH BREAK EAST)
10:30 – 12:10 pm	Hydrogen for On-Road Transportation – Medium and Heavy Duty Vehicles
	<ul> <li>Total Cost-of-Ownership Outlook for Fuel Cell Transit Buses</li> </ul>
	Tim Sasseen, Ballard
	<ul> <li>Perspectives from an Early Adopter</li> </ul>
	Lauren Skiver, Sunline Transit
	<ul> <li>Hydrogen for Long-Haul Trucking</li> </ul>
	James Kast, Toyota
	<ul> <li>Hydrogen for Long-Haul Trucking</li> </ul>
	Brian Lindgren, Kenworth
12:10 – 12:40 pm	BREAK (LUNCH BREAK WEST)
12:40 – 3:30 pm	Hydrogen as a Platform for Sustainability
	<ul> <li>Do We Really Need Hydrogen?</li> </ul>
	Jack Brouwer, UCI Advanced Power and Energy Program
	<ul> <li>Achieving a Self-Sustaining Renewable Hydrogen Sector in California</li> </ul>
	Jeffrey Reed, UCI Advanced Power and Energy Program
	<ul> <li>The Role of Hydrogen in Least-Cost Deep Decarbonization Scenarios</li> </ul>
	Sarah Wang, UCI Advanced Power and Energy Program
	<ul> <li>Integrating Electrolysis and Renewables Under Different Market Configurations</li> </ul>
	Josh Eichmann, National Renewable Energy Lab
	<ul> <li>Hydrogen as a Game Changer in Decarbonization of Sectors - European Perspective</li> </ul>
	Jakub Kupecki, Institute of Power Engineering, Warsaw
	Policy Challenges and Solutions for Hydrogen in California

- Policy Challenges and Solutions for Hydrogen in California Angelina Galiteva, Renewables 100 Policy Institute
- Global Progress on Hydrogen
   Andy Marsh, Plug Power

Day 1 Close

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Program Day 2: Tuesday, September 15		
7:45 – 8:15 am	Opening Keynote: Hydrogen Program at the DOE Office of Fossil Energy Robert Schrecengost, U.S. Department of Energy	
8:15 – 9:45 am	Microgrids: Current Status and What's Next	
	The Microgrid Landscape in California	
	Mike Gravely, California Energy Commission	
	<ul> <li>Marine Corps Air Station Miramar Microgrid Case Study</li> </ul>	
	Mick Wasco, Marine Corps Air Station Miramar	
	<ul> <li>Blue Lake Rancheria Microgrid Case Study</li> </ul>	
	Jana Ganion, Blue Like Rancheria	
	<ul> <li>Hydrogen and Next-Generation Microgrids</li> </ul>	
	Scott Samuelsen, UCI Advanced Power and Energy Program	
9:45 – 10:15 am	BREAK (LUNCH BREAK EAST)	
10:15 – 11:55 am	Hydrogen for Off-Road Transportation and Freight	
	<ul> <li>Hydrogen as a Strategy for Decarbonizing our Ports</li> </ul>	
	Robert Flores, UCI Advanced Power and Energy Program	
	<ul> <li>Hydrogen Solutions for Ocean-Going Vessels</li> </ul>	
	Kazumasa Taruishi, NYK Line	
	<ul> <li>San Bernardino Fuel Cell Rail Project</li> </ul>	
	Carrie Schindler, San Bernardino Transit Authority	
	<ul> <li>Hydrogen as an Aviation Fuel</li> </ul>	
	Dustin McLarty, Washington State University	
11:55 – 12:25 pm	BREAK (LUNCH BREAK WEST)	
12:25 – 2:00 pm	Hydrogen and the Natural Gas Grid	
	The Natural Gas Grid for Hydrogen Energy Storage	
	Myles Moore, UCI Advanced Power and Energy Program	
	Impact of Hydrogen-Methane Blends on Appliances	
	Yan Zhao, UCI Advanced Power and Energy Program	
	Gas System Operator Perspective	
	Yuri Freedman, Southern California Gas Company	
	Salt Cavern Storage / Western Energy Hub	
2:00 4:00 pm	Rob Webster, Magnum Development	
2:00 – 4:00 pm	Hydrogen for Fower Generation	
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	Mitcubicki Rower Hydrogen Turbing Development and Deployment	
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	GE Hydrogen Turbine Development and Deployment	
	Pure Hydrogon Fuel Coll Development	
	Vonkat Vonkataraman, Ploam Engrav	
	The Evolution of Hydrogon Eucled Solid Oxide Products	
1.00 pm	Day 2 Close	
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	Program Day 3: Wednesday, September 16
7:45 – 8:25 am	<ul> <li>The Role of Hydrogen in Transportation Systems</li> <li>HDV Market Evolution: Charging and Fueling Infrastructure Kate Forrest, UCI Advanced Power and Energy Program</li> <li>HDV Market Evolution: Vehicle and Fuel Roadmap Blake Lane, UCI Advanced Power and Energy Program</li> </ul>
8:25 – 10:05 am	Renewable and Low-carbon Hydrogen Production
	<ul> <li>Progress on Electrolysis Technology Steve Szymanski, NEL Hydrogen</li> <li>Outlook for Gasification Projects in California Speaker to be confirmed</li> <li>Carbon-negative Biomass Project</li> </ul>
	Keith Pronske, Clean Energy Systems
	On-site Reformation     Robert Wegeng, STARS
10:05 – 10:35 am	BREAK (LUNCH BREAK EASI) Hydrogen Policy, Social Justice and Economic Perspectives
10:35 – 11:40 am	<ul> <li>Green Hydrogen – How Do We Scale? Laura Nelson, Green Hydrogen Coalition</li> <li>Hydrogen and Social Justice Diane Moss, California Hydrogen Business Council</li> <li>Green Hydrogen and the Economy Lori Schell, Empowered Energy</li> <li>Moderated Q&amp;A Sammy Both, Los Angolas Timos</li> </ul>
11:40 – 12:15 pm	100% Hydrogen Infrastructure
10:15 10:45 pm	<ul> <li>Is This a Pipe Dream – Is There Any Case for "Hydrogen to the Home?" Jeffrey Reed, UCI Advanced Power and Energy Program</li> <li>The Northern England H21 Project Mark Neller, Arup Engineering</li> </ul>
12:15 – 12:45 pm 12:45 – 3:15 pm	Flectrochemical Conversion Research
	<ul> <li>Progress on Hydrogen-Fueled Hybrid Conversion Systems         Alberto Traverso / Aristide Massardo, University of Genoa     </li> <li>Advances in Membrane Electrolyte Assemblies         Iryna Zenyuk, UCI Advanced Power and Energy Program     </li> <li>Progress on Reversible Solid-Oxide Cells         Luca Mastropasqua, UCI Advanced Power and Energy Program     </li> </ul>
	<ul> <li>John Stansberry, UCI Advanced Power and Energy Program</li> <li>Electrochemical Synthesis of Hydrogen Derivatives Trevor Brown, Ammonia Energy Association</li> </ul>