

DOE Hydrogen Program 2022 AMR Program-at-a-Glance

Topic	Monday, June 6	Tuesday, June 7					Wednesday, June 8					
	*All times in Eastern Time	Fuel Cell Technologies	Hydrogen Technologies	Technology Acceleration	Safety, Codes & Standards	DOE Intra-Agency	Fuel Cell Technologies	Hydrogen Technologies	Technology Acceleration	Systems Analysis		
10:30 AM												
11:00 AM	PLENARY SESSION DOE Keynote Speakers DOE Hydrogen Program Overview HFTO Subprogram Overviews - Hydrogen Technologies - Fuel Cell Technologies - Technology Acceleration - Systems Analysis Reviewer Q&A AMR Awards	Hydrogen Shot Updates and Activities					FC334	P196	TA028	SA174		
11:30 AM							FC333		TA039	SA175		
12:00 PM							FC335	P148	TA018	SA181		
12:30 PM							FC336		TA043	FE005		
1:00 PM		BREAK					BREAK					
1:30 PM		FC339	ST241	TA048	SCS021	FE001	FC323	P198	TA001	NE001		
2:00 PM			ST238	TA037	SCS019	FE002	FC326	P197	TA052	NE002		
2:30 PM			ST236	TA044	SCS028	FE003	FC327	P199	TA053			
3:00 PM		BREAK					BREAK					
3:30 PM		FC353	ST239	TA060	SCS010	FE004	FC356	IN034	TA065	BES001		
4:00 PM	FC337	ST237	TA051	SCS011	ARPAE001	FC167	IN035	TA045	BES002			
4:30 PM	FC338	ST240	TA054	FC354	ARPAE002	FC160	IN015	TA049	SA182			
5:00 PM	Networking: Informal gather-and-greet with colleagues						IN016	IA001	SA183			
5:30 PM												

**U.S. Department of Energy (DOE) Hydrogen Program
2022 Annual Merit Review and Peer Evaluation Meeting (AMR)
Plenary Schedule**

Day 1: June 6, 2022, 11:00 AM–5:00 PM EDT

Time	Topic	Speakers
11:00 AM	Welcome and Introduction	Shawna McQueen , AMR Chair and Sunita Satyapal , Director, Office of Energy Efficiency and Renewable Energy - Hydrogen and Fuel Cell Technologies Office (EERE-HFTO)
11:02 AM	Opening Remarks	Energy Secretary Jennifer M. Granholm
11:10 AM	DOE Leadership Perspectives	Shalanda H. Baker , Secretarial Advisor on Equity and Deputy Director for Energy Justice
11:15 AM	DOE Hydrogen Program Update	Sunita Satyapal , Director, EERE-HFTO
12:00 PM	DOE Hydrogen Program Panel	Sunita Satyapal , EERE-HFTO Robert Schrecengost , Fossil Energy and Carbon Management Jason Marcinkoski , Nuclear Energy John Vetrano , Office of Science Todd Shrader , Office of Clean Energy Demonstrations
<i>12:30 PM</i>	<i>Break</i>	
1:00 PM	Hydrogen Technologies Overview	Ned Stetson , Program Manager, Hydrogen Technologies, EERE-HFTO
1:50 PM	Fuel Cell Technologies Overview	Dimitrios Papageorgopoulos , Program Manager, Fuel Cell Technologies, EERE-HFTO
2:30 PM	Technology Acceleration Overview	Jesse Adams , Program Manager, Technology Acceleration, EERE-HFTO
<i>3:20 PM</i>	<i>Break</i>	
3:50 PM	Analysis Overview	Neha Rustagi , Team Lead, Systems Analysis, EERE-HFTO
4:10 PM	Reviewer Q&A	Moderator: Eric Miller , Senior Advisor, EERE-HFTO
4:45 PM	DOE Hydrogen Program Awards	Michael Berube , Deputy Assistant Secretary for Sustainable Transportation, EERE and Sunita Satyapal , EERE-HFTO
<i>5:00 PM</i>	<i>AMR Program Plenary Ends</i>	
5:00 PM – 6:00 PM – Optional Networking Session		

Day 2: June 7, 2022, 11:00 AM–1:00 PM EDT

Time	Topic
11:00 AM	DOE Hydrogen Shot Strategy Discussion
12:00 PM	Hydrogen Shot – Industry/Lab Collaboration and Innovations Panel
1:00 PM	Plenary Ends/AMR Break
<i>1:30 PM</i>	<i>AMR Oral Technical Sessions Start</i>

Tuesday, June 7 Oral Presentations

Time	Fuel Cell Technologies	Hydrogen Technologies	Technology Acceleration	Safety, Codes & Standards	Intra-Agency Activities
1:00 pm					
1:30 pm	FC339 M2FCT: Million Mile Fuel Cell Truck Consortium Rod Borup & Adam Weber, M2FCT	ST241 First Demonstration of a Commercial Scale LH2 Storage Tank Design for International Trade Applications Kun Zhang, Shell	TA048 ARIES / Flatirons Facility - Hydrogen System Capability Buildout Daniel Leighton, NREL	SCS021 NREL Hydrogen Sensor Testing Laboratory William Buttner, NREL	FE001 Subsurface Hydrogen Assessment, Storage, and Technology Acceleration (SHASTA) Angela Goodman, Joshua White, and Nicolas Huerta, NETL, LLNL, and PNNL
2:00 pm		ST238 Low-Cost, High-Strength Hollow Carbon Fiber for Compressed Gas Storage Tanks Matthew Weisenberger, University of Kentucky	TA037 Demonstration and Framework for H2@Scale in Texas and Beyond Rich Myhre, Frontier Energy Inc.	SCS019 Hydrogen Safety Panel, Safety Knowledge Tools, and First Responder Training Resources Nick Barilo, PNNL	FE002 A Highly Efficient and Affordable Hybrid System for Hydrogen and Electricity Production Ying Liu, Phillips 66
2:30 pm		ST236 Low-Cost, High-Performance Carbon Fiber for Compressed Natural Gas Storage Tanks Xiaodong Li, University of Virginia	TA044 System Demonstration for Supplying Clean, Reliable and Affordable Electric Power to Data Centers using Hydrogen Fuel Paul Wang, Caterpillar, Inc.	SCS028 Hydrogen Education for a Decarbonized Global Economy (H2EDGE) Thomas Reddoch, EPRI	FE003 Performance Improvements for Reversible Solid Oxide Fuel Cell Systems Hossein Ghezel-Ayagh, FuelCell Energy
3:00 pm					
3:30 pm	FC353 Fuel Cell Cost and Performance Analysis Brian James, Strategic Analysis, Inc.	ST239 Melt-Spun PAN Precursor for Cost-Effective Carbon Fibers in High Pressure Compressed Gas Tankage Felix Paulauskas, ORNL	TA060 U.S. Wind to Hydrogen Modeling, Analysis, Testing, and Collaboration Aaron Barker, NREL	SCS010 R&D for Safety, Codes and Standards: Hydrogen Behavior Ethan Hecht	FE004 Performance Validation of a Thermally Integrated 50 kW High Temperature Electrolyzer System Tyler Westover, INL
4:00 pm	FC337 Cummins PEM Fuel Cell System for Heavy Duty Applications Jean St-Pierre, Cummins Inc.	ST237 Carbon Composite Optimization Reducing Tank Cost Dylan Winter, Hexagon R&D	TA051 Low Total Cost of Hydrogen by Exploiting Offshore Wind and PEM Electrolysis Synergies Hui Xu, Giner, Inc.	SCS011 Hydrogen Quantitative Risk Assessment Brian Ehrhart, SNL	ARPAE001 Co-Synthesis of Hydrogen and High-Value Carbon Products from Methane Pyrolysis Matteo Cargnello, Stanford University
4:30 pm	FC338 Domestically Manufactured Fuel Cells for Heavy-Duty Applications Karen Swider Lyons, Plug Power	ST240 Cost-Optimized Structural Carbon Fiber for Hydrogen Storage Tanks Amit Naskar, ORNL	TA054 AEM Water Electrolyzer for Hydrogen Production from Offshore Wind Richard Masel, Alchemr, Inc	FC354 L'Innovator Program Emory De Castro, Advent Technologies	ARPAE002 High Power Density Carbon Neutral Electrical Power Generation for Air Vehicles Rory Roberts, Tennessee Tech University
5:00 PM					

Wednesday, June 8 Oral Presentations				
Time	Fuel Cell Technologies	Hydrogen Technologies	Technology Acceleration	Systems Analysis / Intra-Agency Activities
11:00 AM	FC334 Extending PFSA Membrane Durability Through Enhanced Ionomer Backbone Stability Gregg Dahlke, 3M	P196 H2NEW Consortium: Hydrogen from Next-Generation of Electrolyzers of Water Bryan Pivovar, NREL & Richard Boardman, INL, NREL	TA028 Demonstration of Electrolyzer Operation at a Nuclear Plant to Allow for Dynamic Participation in an Organized Electricity Market and In-House Hydrogen Supply Uuganbayar Otgonbaatar, Exelon	SA174 Life Cycle Analysis of Hydrogen Pathways Amgad Elgowainy, ANL
11:30 AM	FC333 Advanced Membranes for Heavy Duty Fuel Cell Trucks Andrew Baker, Nikola Motor Company		TA039 Solid Oxide Electrolysis System Demonstration Hossein Ghezeli-Ayagh, FuelCell Energy, Inc.	SA175 Regional Hybrid Energy Systems Technoeconomic Analysis Bethany Frew, NREL
12:00 PM	FC335 Additive Functionalized Polymers for Extended Heavy Duty Polymer Electrolyte Membrane Lifetimes Tom Corrigan, The Lubrizol Corporation	P148 HydroGEN Overview: A Consortium on Advanced Water Splitting Materials Huyen Dinh, NREL	TA018 High Temperature Electrolysis Test Stand Micah Casteel, INL	SA181 Global Change Analysis Model Expansion-Hydrogen Pathways Page Kyle, PNNL
12:30 PM	FC336 A Systematic Approach to Developing Durable, Conductive Membranes for Operation at 120C Tom Zawodzinski, University of Tennessee - Knoxville		TA043 Electrolyzer Stack Development and Manufacturing Olga Marina, PNNL	FE005 Comparison of Commercial, State-of-the-Art, Fossil-Based Hydrogen Production Technologies Eric Lewis, NETL
1:00 PM				
1:30 PM	FC323 Durable Fuel Cell MEA through Immobilization of Catalyst Particle and Membrane Chemical Stabilizer Nagappan Ramaswamy, GM	P198 Enabling Low Cost PEM Electrolysis at Scale Through Optimization of Transport Components and Electrode Interfaces Chris Capuano, Nel Hydrogen	TA001 MEA Manufacturing R&D Peter Rupnowski, NREL	NE001 Dynamic Nuclear Thermal Energy Integration for High Temperature Electrolysis Shannon Bragg-Sitton, INL
2:00 PM	FC326 Durable MEAs for Heavy-Duty Fuel Cell Electric Trucks John Slack, Nikola Motor Company	P197 Advanced Manufacturing Processes for Gigawatt-Scale Proton Exchange Membrane Water Electrolyzer Oxygen Evolution Reaction Catalysts and Electrodes Andrew Steinbach, 3M	TA052 Solid Oxide Electrolysis Cells (SOEC) Integrated with Direct Reduced Iron (DRI) Plants for Producing Green Steel Jack Brouwer, University of California, Irvine	NE002 Nuclear Hydrogen and Synthetic Diesel and Jet Fuel Amgad Elgowainy & Richard Boardman, ANL & INL
2:30 PM	FC327 Durable High Power Density Fuel Cell Cathodes for Heavy-Duty Vehicles Shawn Litster, Carnegie Mellon University	P199 Integrated Membrane Anode Assembly & Scale-Up Adam Paxson, Plug Power	TA053 Grid-Interactive Steelmaking with Hydrogen (GISH) Ronald Omalley, Missouri University of Science & Technology	
3:00 PM				
3:30 PM	FC356 FY21 SBIR I: Durable High Efficiency Membrane and Electrode Assemblies for Heavy Duty Fuel Cell Vehicles Hui Xu, Giner, Inc.	IN034 HyBlend: Pipeline CRADA Cost and Emissions Analysis Kevin Topolski & Pingping Sun, NREL	TA065 Total Cost of Ownership (TCO) Analysis of Hydrogen Fuel Cells in Off Road Heavy-Duty Applications – Preliminary Results Rajesh Ahluwalia, ANL	BES001 Electrocatalysis in Alkaline Media at CABES Hector Abruña, Cornell University
4:00 PM	FC167 FY20 SBIR IIA: Multi-Functional Catalyst Support Minette Ocampo, pH Matter, LLC	IN035 HyBlend: Pipeline CRADA Materials R&D Chris San Marchi, SNL	TA045 Waterfront Maritime Hydrogen Demonstration Project Narendra Pal, Hornblower	BES002 Critical Importance of Renewable H2 for Carbon-Neutral CO2 Conversion Jingguang Chen, Columbia University
4:30 PM	FC160 ElectroCat 2.0 (Electrocatalysis Consortium) Deborah Myers, ANL & Piotr Zelenay, LANL	IN015 Optimizing the Heisenberg Vortex Tube for Hydrogen Cooling Jacob Leachman, Washington State University	TA049 High Pressure, High Flow Rate Dispenser and Nozzle Assembly for Heavy Duty Vehicles Spencer Quong, Electricore	SA182 Biomass gasification Optimal Business Case Analysis Tool Bridger Cook, Oregon State University
5:00 PM		IN016 Free-Piston Expander for Hydrogen Cooling Devin Halliday, Gas Technology Institute	IA001 H2@Rescue: Design and Deployment of PEM Fuel Cell-Battery Powered Hybrid Emergency Relief Truck Archit Koti, Cummins	SA183 H2X: A Tool to Run Green Hydrogen Business Analysis Scenarios in Seconds Sharun Kumar & Amanda Wonnell, University of California, Berkeley
5:30 PM				
	SA185 Hydrogen Business Appraisal Tool Nicolas Alfonso Vargas & Moon Jung Kim, University of Southern California			

Poster Presentations

Fuel Cell Technologies		
FC170	ElectroCat: Durable Mn-Based PGM-Free Catalysts for Polymer Electrolyte Membrane Fuel Cells	Hui Xu, Giner, Inc.
FC172	ElectroCat: Highly Active and Durable PGM-Free ORR Electrocatalysts through the Synergy of Active Sites	Yuyan Shao, PNNL
FC304	ElectroCat: Fuel Cell Membrane Electrode Assemblies with PGM-Free Nanofiber Cathodes	Peter Pintauro, Vanderbilt University
FC307	Cyclic Olefin Copolymer-Based Alkaline Exchange Polymers and Reinforced Membranes	Chulsung Bae, RPI
FC309	PILBCP-IL Composite Ionomers for High Current Density Performance	Joshua Snyder, Drexel University
FC314	Efficient Reversible Operation and Stability of Novel Solid Oxide Cells	Scott Barnett, Northwestern University
FC317	Stationary Direct Methanol Fuel Cells Using Pure Methanol	Xianglin Li, University of Kansas
FC328	FY19 SBIR II: Novel Fluorinated Ionomer for PEM Fuel Cells	Hui Xu, Giner, Inc.
FC330	High Efficiency Reversible Solid Oxide System	Hossein Ghezel-Ayagh, FuelCell Energy, Inc.
FC331	A Novel Stack Approach to Enable High Round Trip Efficiencies in Unitized PEM Regenerative Fuel Cells	Katherine Ayers, Nel Hydrogen
FC332	Reversible Fuel Cell Cost Analysis	Max Wei, LBNL
FC341	Advanced AEMFCs through Material Innovation	Yu Seung Kim, LANL
FC342	Advanced Ionomers & MEAs for Alkaline Membrane Fuel Cells (AMFCs)	Bryan Pivovar, NREL
FC343	FY20 SBIR II: Improved Ionomers and Membranes for Fuel Cells	Chris Topping, Tetramer Technologies, LLC
FC344	Low-Cost Corrosion-Resistant Coated Aluminum Bipolar Plates by Elevated Temperature Formation and Diffusion Bonding	J.V. Yang, Raytheon Technologies Research Center
FC345	Development and Manufacturing for Precious Metal Free Metal Bipolar Plate Coatings for PEM Fuel Cells	CH Wang, Treadstone Technologies, Inc.
FC346	Fully Unitized Fuel Cell Manufactured by a Continuous Process	Jon Owejan, Plug Power
FC347	Development of Low Cost, Thin Flexible Graphite Bipolar Plates for Heavy Duty Fuel Cell Applications	David Chadderdon, NeoGraf Solutions, LLC
FC348	Fuel Cell Bipolar Plate Technology Development for Heavy Duty Applications	Siguang Xu, GM
FC349	Foil Bearing Supported Compressor-Expander	Bill Buckley, R&D Dynamics Corporation
FC350	High Efficiency and Transient Air Systems for Affordable Load-Following Heavy-Duty Truck Fuel Cells	Doug Hughes, Eaton Corporation
FC351	Durable and Efficient Centrifugal Compressor-Based Filtered Air Management System and Optimized BOP	Mike Bunce, Mahle Powertrain, LLC
FC352	Leveraging ICE Air System Technology for Fuel Cell System Cost Reduction	Rich Kruiswyk, Caterpillar, Inc.
FC355	LANL Minority Serving Institution Program	Tommy Rockward, LANL
FC357	FY21 SBIR I: Nanocoating for Increased Nafion Membrane Durability and Efficiency	Corey Staller, Celedyne Technologies, Inc.
FC358	FY21 SBIR I: Fine Gradient Electrode and Micro Porous Layer Structures for Improved Heavy Duty Fuel Cells	Barr Zulevi, Pajarito Powder, LLC
FC359	FY21 STTR I: Optimizing Liquid Free Ionomer Binders for High-Temperature Polymer Electrolyte Membrane Fuel Cells for Heavy Duty	Chris Arges, Ionomer Solutions, LLC

FC360	FY21 STTR I: Development of a Direct Fuel Cell for the Perhydrodibenzyltoluene / Dibenzyltoluene Fuel Pair	Guido Pez, Energy 18H, LLC
Hydrogen Technologies - Production		
H2057	Electrolyzer/Bioreactor Integration (EBI)	Kevin Harrison, NREL
P152	Proton-Conducting Solid Oxide Electrolysis Cells for Large-Scale Hydrogen Production at Intermediate Temperatures	Prabhakar Singh, University of Connecticut
P154	Thin-Film, Metal-Supported High-Performance and Durable Proton-Solid Oxide Electrolyzer Cell	Tianli Zhu, Raytheon Technologies Research Center
P170	Benchmarking Advanced Water Splitting Technologies: Best Practices in Materials Characterization	Olga Marina, PNNL
P175	Intermediate Temperature Proton-Conducting Solid Oxide Electrolysis Cells with Improved Performance and Durability	Xingbo Liu, West Virginia University
P176	Development of Durable Materials for Cost Effective Advanced Water Splitting Utilizing All Ceramic Solid Oxide Electrolyzer Stack Technology	John Pietras, Saint-Gobain
P179	BioHydrogen (BioH ₂) Consortium to Advance Fermentative Hydrogen Production	Katherine Chou, NREL
P182	Binary Chloride Salts as Catalysts for Methane to Hydrogen and Graphitic Powder	Eric McFarland, C-Zero, LLC
P183	Extremely Durable Concrete Using Methane Decarbonization Nanofiber Co-Products with Hydrogen	Alan W. Weimer, University of Colorado, Boulder
P184	Scalable and Highly Efficient Microbial Electrochemical Reactor for Hydrogen Generation from Lignocellulosic Biomass and Waste	Hong Liu, Oregon State University
P185	High-Performance AEM LTE with Advanced Membranes, Ionomers and PGM-Free Electrodes	Paul A. Kohl, Georgia Institute of Technology
P186	Performance and Durability Investigation of Thin, Low Crossover Proton Exchange Membranes for Water Electrolyzers	Andrew Park, The Chemours Company FC, LLC
P187	Pure Hydrogen Production through Precious-Metal-Free Membrane Electrolysis of Dirty Water	Shannon Boettcher, University of Oregon
P188	Advanced Coatings to Enhance the Durability of SOEC Stacks	Emir Dogdibegovic, Nexceris, LLC
P190	A Multifunctional Isostructural Bilayer Oxygen Evolution Electrode for Durable Intermediate-Temperature Electrochemical Water Splitting	Kevin Huang, University of South Carolina
P191	Perovskite/Perovskite Tandem Photoelectrodes for Low-Cost Unassisted Photoelectrochemical Water Splitting	Yanfa Yan, The University of Toledo
P192	Development of Composite Photocatalyst Materials That Are Highly Selective for Solar Hydrogen Production and Their Evaluation in Z-	Shane Ardo, University of California, Irvine
P193	Highly Efficient Solar Water Splitting Using 3D/2D Hydrophobic Perovskites with Corrosion Resistant Barriers	Aditya D. Mohite, William Marsh Rice University
P194	New High-Entropy Perovskite Oxides with Increased Reducibility and Stability for Thermochemical Hydrogen Generation	Jian Luo, University of California, San Diego
P195	A New Paradigm for Materials Discovery and Development for Lower Temperature and Isothermal Thermochemical Hydrogen Production	Jonathan Scheffe, University of Florida
P196a	H ₂ NEW LTE: Durability and AST Development	Deborah Myers, ANL
P196b	H ₂ NEW LTE: Benchmarking and Performance	Adam Weber, LBNL
P196c	H ₂ NEW LTE: Manufacturing, Scale-Up, and Integration	Michael Ulsh, NREL
P196d	H ₂ NEW LTE: System and Techno-economic Analysis -- Hydrogen from Next-Generation Electrolyzers	Mark Ruth, NREL
P196e	H ₂ NEW HTE: Durability and AST Development	Olga Marina, PNNL
P196f	H ₂ NEW HTE: Cell Characterization	David Ginley, NREL

P196g	H2NEW HTE: Multiscale Degradation Modeling	Brandon Wood, LLNL
P200	Low-Cost Manufacturing of High Temperature Electrolysis Stacks	Scott Swartz, Nextech Materials, Ltd.
P201	Automation of Solid Oxide Electrolyzer Cell (SOEC) & Stack Assembly	Todd Striker, Cummins Inc.
P202	Novel Microbial Electrolysis Cell Design for Efficient Hydrogen Generation from Wastewaters	Bruce Logan, Pennsylvania State University
P203	Novel Microbial Electrolysis System for Conversion of Biowastes into Low-Cost Renewable Hydrogen	Noah Meeks, Southern Company Services, Inc.
P204	Hydrogen Production Cost and Performance Analysis	Brian James, Strategic Analysis, Inc.
Hydrogen Technologies - Delivery/Infrastructure		
H2041	H2@Scale CRADA: CA Research Consort. (Ref. Station, Fueling Perf. Test Device, Station Cap Model)	Sam Sprik, NREL
H2060	Hydrogen Blending into Natural Gas Pipelines	Chris San Marchi, SNL
H2061	Innovating Hydrogen Station: Heavy-Duty Fueling	Shaun Onorato, NREL
IN001a	H-Mat Overview: Metals	Chris San Marchi, SNL
IN001b	H-Mat Overview: Polymers	Kevin Simmons, PNNL
IN004	Magnetocaloric Hydrogen Liquefaction	John Barclay, PNNL
IN014	NDE Techniques for Pressure Vessels (SBIR): Detection of Micron-Scale Flaws through Nonlinear Wave Mixing	Marcus Grimes, Luna Innovations Inc.
IN018	Heavy-Duty Compressor Development	Kathy Ayers, Nel Hydrogen
IN019	Ultra-Cryopump for High Demand Transportation Fueling	Dave Chalk & Greg Hupp, RotoFlow
IN020	Self-Healable Copolymer Composites for Extended Service Hydrogen Dispensing Hoses	Marek Urban, Clemson University
IN021	Microstructural Engineering and Accelerated Test Method Development to Achieve Low Cost, High Performance Solutions for	Kip Findley, Colorado School of Mines
IN022	Tailoring Carbide Dispersed Steels: A Path to Increased Strength and Hydrogen Tolerance	Gregory Thompson, The University of Alabama
IN025	ANL-H2 Delivery Technologies Analysis	Amgad Elgowainy, ANL
IN026	Tailoring Composition and Deformation Modes at the Microstructural Level for Next Generation Low-Cost High-Strength Austenitic Stainless	Petros Sofronis, University of Illinois Urbana-Champaign
IN029	Reducing the Cost of Fatigue Crack Growth Testing for Storage Vessel Steels in Hydrogen Gas	Kevin Nibur, Hy-Performance
IN030	Micro-Mechanically Guided High-Throughput Alloy Design Exploration towards Metastability-Induced H Embrittlement Resistance	C. Cem Tasan, Massachusetts Institute of Technology
Hydrogen Technologies - Storage		
ST001	System Level Analysis of Hydrogen Storage Options	Rajesh Ahluwalia, ANL
ST008	Hydrogen Storage System Modeling: Public Access, Maintenance, and Enhancements	Sam Sprik, NREL
ST127	HyMARC Overview	Tom Gennett, NREL
ST148	Novel Plasticized Melt Spinning Process of PAN Fibers Based on Task-Specific Ionic Liquids	Sheng Dai, ORNL

ST202	HyMARC—NREL Activities	Tom Gennett, NREL
ST204	HyMARC—PNNL Activities	Tom Autrey, PNNL
ST207	HyMARC—LLNL Activities	Brandon Wood, LLNL
ST209	HyMARC Seedling: Theory-Guided Design and Discovery of Materials for Reversible Methane and Hydrogen Storage	Omar Farha, Northwestern University
ST210	HyMARC Seedling: Metal-Organic Frameworks Containing Frustrated Lewis Pairs for Hydrogen Storage at Ambient Temperature	Shengqian Ma, University of South Florida
ST211	HyMARC Seedling: Optimal Adsorbents for Low-Cost Storage of Natural Gas and Hydrogen: Computational Identification, Experimental	Don Siegel, University of Michigan
ST212	HyMARC Seedling: Methane and Hydrogen Storage with Porous Cage-Based Composite Materials	Eric Bloch, University of Delaware
ST213	HyMARC Seedling: Uniting Theory and Experiment to Deliver Flexible MOFs for Superior Methane (NG) Storage	Brian Space, University of South Florida
ST214	HyMARC Seedling: Heteroatom-Modified and Compacted Zeolite-Templated Carbons for Gas Storage	Nicholas Stadie, Montana State University
ST216	HyMARC Seedling: Hydrogen Release from Concentrated Media with Reusable Catalysts	Travis Williams, University of Southern California
ST217	HyMARC Seedling: A Reversible Liquid Hydrogen Carrier System Based on Ammonium Formate and Captured CO ₂	Hongfei Lin, Washington State University
ST218	HyMARC Seedling: High Capacity Step-Shaped Hydrogen Adsorption in Robust, Pore-Gating Zeolitic Imidazolate Frameworks	Michael McQuirk, Colorado School of Mines
ST222	HyMARC: Characterization of Hydrogen Storage Materials at ORNL's Spallation Neutron Source	Rafael Balderas, ORNL
ST224	HyMARC—LBNL Activities	Jeffrey Long, LBNL
ST225	HyMARC—LBNL/ALS Activities	David Prendergast, LBNL
ST233	HyMARC—SNL Activities	Vitalie Stavila, SNL
ST234	Development of Magnesium Borane Containing Solutions of Furans and Pyroles as Reversible Liquid Hydrogen Carriers	Craig Jensen, University of Hawaii
ST235	Hydrogen Storage Cost and Performance Analysis	Cassidy Houchins, Strategic Analysis, Inc.
ST242	DME as a Renewable Hydrogen Carrier: Innovative Approach to Renewable Hydrogen Production	Troy Semelsberger, LANL
ST243	Fuel Additives for Solid Hydrogen (FLASH) Carriers for Electric Aviation	Steven Christensen, NREL
ST244	Hydrogen Carriers for Renewable Energy Farm Application	Rajesh Ahluwalia, ANL
Systems Analysis		
H2059	Electrolytic Renewable Fuel Production Optimal Operation Investigation	Omar Guerra, NREL
SA177	Analysis of Hydrogen Export Potential	Mark Chung, NREL
SA178	Cradle-to-Grave Transportation Analysis	Amgad Elgowainy, ANL
SA180	Advanced neTwork analysis of hydrogen fuel cell Automated vehicles for goods delivery (ATLAS) -- TCO of Autonomous Fuel Cell Fleet	Tim Lipman, LBNL

Safety, Codes & Standards		
H2056	Hydrogen Safety Outreach to Expedite H2 Fueling and Energy Project Deployment and Promote Public Acceptance for Zero Emission Vehicles and Reliable Distributed Power Generation	Nick Barilo, PNNL
SCS001	Component Failure R&D	Kevin Hartmann, NREL
SCS005	R&D for Safety, Codes and Standards: Materials and Components Compatibility	Joe Ronevich, SNL
SCS007	Fuel Quality Assurance R&D and Impurity Testing in Support of Codes and Standards	Tommy Rockward, LANL
SCS022	Fuel Cell and Hydrogen Energy Association Codes and Standards Support	Karen Quackenbush, Fuel Cell and Hydrogen Energy Association
SCS030	MC Formula Protocol for H35HF Fueling	Taichi Kuroki, NREL
SCS031	Assessment of Heavy-Duty Fueling Methods and Components	Shaun Onorato, NREL
SCS033	Risk Assessments of Design and Refueling for Hydrogen Locomotive and Tender	Brian Ehrhart, SNL
Technology Acceleration		
TA005	In-line Quality Control of PEM Materials	Andrew Wagner, Mainstream Engineering
TA009	Maritime (Pierside Power) Fuel Cell Generator Project	Lennie Klebanoff, SNL
TA013	Fuel Cell Bus Evaluations	Matthew Post, NREL
TA016	Fuel Cell Hybrid Electric Delivery Van	Erik Brewer, Center for Transportation and the Environment
TA017	Innovative Advanced Hydrogen Mobile Fueler	Spencer Quong, Electricore
TA027	Catalyst Layer Design, Manufacturing, and In-line Quality Control	Radenka Maric, University of Connecticut
TA035	Power Electronics for Electrolyzer Applications to Enable Grid Services	Robert Hovsopian, NREL
TA041	Truck Duty Cycle Analysis	Jason Lustbader, NREL
TA042	Next Generation Hydrogen Station Analysis	Genevieve Saur, NREL
TA050	Overall Research on Electrode Coating Processes (OREO)	Michael Ulsh, NREL
TA056	Ultra-Efficient Long-Haul Hydrogen Fuel Cell Tractor	Derek Rotz, Daimler Trucks North America
TA057	High Efficiency Fuel Cell Application for Medium Duty Truck Vocations	Stan Bower, Ford Motor Company
TA058	Freight Emissions Reduction via Medium Duty Battery Electric and Hydrogen Fuel Cell Trucks with Green Hydrogen Production via a New	Kurt Wellenkotter & Jacob Lozier, GM
TA059	MDV TCO and Target Development	Ram Vijayagopal, ANL
TA061	Optimal Wind Turbine Design for H2 Production	Chris Bay, NREL
TA062	Validation of Interconnection and Interoperability of Grid-Forming Inverters Sourced by Hydrogen Technologies in View of 100%	Kumaraguru Prabakar, NREL
TA063	High Efficacy Validation of Hydride Mega Tanks at the ARIES Lab (HEVHY METAL)	Steven Christensen, NREL
TA064	Hydrogen Production, Grid Integration, and Scaling for the Future	Sam Sprik, NREL

TA066	In-Line Membrane Thickness Mapping with Real-Time Data Processing	Peter Rupnowski, NREL
Intra-Agency Activities		
AMO000	Advanced Manufacturing Office Overview of Hydrogen-Related Activities	Joe Cresko, DOE Advanced Manufacturing Office
AMO001	Flexible Natural Gas/Hydrogen Engine for Combined Heat and Power (CHP) Applications	Jaswinder Singh, Caterpillar, Inc.
AMO002	Smart Gas Quality Sensor for HyBlends in Support of CHP Demonstration in District Energy Systems	Sreenath Gupta, ANL
ARPAE000	ARPA-E Hydrogen and Fuel Cell Portfolio	Grigorii Soloveichik, DOE Advanced Research Projects Agency - Energy
ARPAE003	A Hybrid Electrochemical and Catalytic Compression System for Direct Generation of High-Pressure Hydrogen at 700 Bar	Chengxiang Xiang, Caltech
ARPAE004	SOFC/Turbine Hybrid Power System	Scott Swartz, Nexceris
ARPAE005	Adaptive SOFC for Ultra High Efficiency Systems	Hossein Ghezal-Ayagh, FuelCell Energy
ARPAE006	Micro-Hybrid Development with Enabling Controls	David Tucker, NETL
ARPAE007	Metal-Supported SOFCs for Ethanol-Fueled Vehicles	Mike Tucker, LBNL
ARPAE008	Hybrid SOFC/Turbogenerator for Aircraft	Chris Cadou, University of Maryland
ARPAE009	Ammonia: Key to Expanding Deployment and Utilization of Green Hydrogen	Colin Wolden, Colorado School of Mines
ARPAE010	Carbon Dioxide-Free Hydrogen and Solid Carbon from Natural Gas via Metal Salt Intermediates	Jonah Erlebacher, Johns Hopkins University
ARPAE011	Channeling Engineering of Hydroxide Ion Exchange Polymers and Reinforced Membranes	Chulsung Bae, Rensselaer Polytechnic Institute
ARPAE012	Bipolar Membranes with an Electrospun 3D Junction	Peter Pintauro, Vanderbilt University
ARPAE013	High-Efficiency and Low-Carbon Energy Storage and Power Generation System for Electric Aviation	Nguyen Minh, University of California, San Diego
BES000	Office of Basic Energy Sciences Overview of Hydrogen-Related Activities	John Vetrano, DOE Office of Science
FE000A	Hydrogen with Carbon Management Program - Program Overview	Bob Schrecengost, DOE Office of Fossil Energy and Carbon Management
FE000B	Natural Gas Decarbonization and Hydrogen Technologies Program – Program Overview	Evan Frye, DOE Office of Fossil Energy and Carbon Management
FE007	Geographical Assessment of Natural Gas Infrastructure and Pipeline Materials for Blended Gas Transport	Yarom Polsky, ORNL
FE008	Progress on Natural Gas Pyrolysis for Low-Carbon Hydrogen Production	Daniel Haynes, NETL
FE009	Optical Fiber Sensor Technologies For Subsurface Hydrogen Storage Monitoring	Ruishu Wright, NETL
NE000	Office of Nuclear Energy: Overview of Hydrogen-Related Activities	Jason Marcinkoski, DOE Office of Nuclear Energy
NE003	High Temperature Steam Electrolysis Process Performance and Cost Estimates	Dan Wendt, INL
NE004	High Temperature Electrolysis Stack Manufacturing Cost Estimation	Brian James, Strategic Analysis, Inc.
SETO000	Solar Energy Technologies Office Overview of Hydrogen-Related Activities	Avi Shultz, DOE Solar Energy Technologies Office
WETO000	Wind Energy Technologies Office Overview of Hydrogen-Related Activities	Jian Fu, DOE Wind Energy Technologies Office
WETO001	Clusters of Flexible PV-Wind-Storage Hybrid Generation (FlexPower)	Vahan Gevorgian, NREL

WPT0000	Water Power Technologies Office Overview of Hydrogen-Related Activities	William McShane, DOE Water Power Technologies Office
HFTO Postdoctoral Recognition Awards		
PRA001	Formulation Strategies for the Large-Scale Manufacturing of Crack-Free Electrodes	Carlos Baez-Cotto, NREL
PRA002	High-Performing and Durable Electrodes for PEMFCs	ChungHyuk Lee, LANL
PRA003	Protonic Ceramic Electrochemical Cells for Hydrogen Production and Electricity Generation	Wenjuan Bian, INL
PRA004	Characterizing Hydrogen Storage Materials Using Neutron Scattering Techniques	Ryan Klein, NREL

Alphabetical List of Presenters

Presenter Last Name	Presenter First Name	Presenter Organization (Short)	Day/Time (EDT)	Unique ID	Session
Abruña	Hector	Cornell University	6/8/22 3:30 PM	BES001	Intra-Agency Activities
Ahluwalia	Rajesh	ANL		ST001	
Ahluwalia	Rajesh	ANL		ST244	
Ahluwalia	Rajesh	ANL	6/8/22 3:30 PM	TA065	Technology Acceleration
Ardo	Shane	University of California, Irvine		P192	
Arges	Chris	Ionomer Solutions, LLC		FC359	
Autrey	Tom	PNNL		ST204	
Ayers	Katherine	Nel Hydrogen		FC331	
Ayers	Kathy	Nel Hydrogen		IN018	
Bae	Chulsung	RPI		FC307	
Bae	Chulsung	Rensselaer Polytechnic Institute		ARPAE011	
Baez-Cotto	Carlos	NREL		PRA001	
Baker	Andrew	Nikola Motor Company	6/8/22 11:30 AM	FC333	Fuel Cell Technologies
Balderas	Rafael	ORNL		ST222	
Barclay	John	PNNL		IN004	
Barilo	Nick	PNNL		H2056	
Barilo	Nick	PNNL	6/7/22 2:00 PM	SCS019	Safety, Codes and Standards
Barker	Aaron	NREL	6/7/22 3:30 PM	TA060	Technology Acceleration
Barnett	Scott	Northwestern University		FC314	
Bay	Chris	NREL		TA061	
Bian	Wenjuan	INL		PRA003	
Bloch	Eric	University of Delaware		ST212	
Boardman	Richard	INL	6/8/22 2:00 PM	NE002	Intra-Agency Activities
Boardman	Richard	INL	6/8/22 11:00 AM	P196	Hydrogen Technologies
Boettcher	Shannon	University of Oregon		P187	
Borup	Rod	M2FCT	6/7/22 1:30 PM	FC339	Fuel Cell Technologies
Bower	Stan	Ford Motor Company		TA057	
Bragg-Sitton	Shannon	INL	6/8/22 1:30 PM	NE001	Intra-Agency Activities
Brewer	Erik	Center for Transportation and the Environment		TA016	
Brouwer	Jack	University of California, Irvine	6/8/22 2:00 PM	TA052	Technology Acceleration
Buckley	Bill	R&D Dynamics Corporation		FC349	
Bunce	Mike	Mahle Powertrain, LLC		FC351	
Buttner	William	NREL	6/7/22 1:30 PM	SCS021	Safety, Codes and Standards
Cadou	Chris	University of Maryland		ARPAE008	
Capuano	Chris	Nel Hydrogen	6/8/22 1:30 PM	P198	Hydrogen Technologies
Cargnello	Matteo	Stanford University	6/7/22 4:00 PM	ARPAE001	Intra-Agency Activities
Casteel	Micah	INL	6/8/22 12:00 PM	TA018	Technology Acceleration
Chadderdon	David	NeoGraf Solutions, LLC		FC347	
Chalk	Dave	RotoFlow		IN019	
Chen	Jingguang	Columbia University	6/8/22 4:00 PM	BES002	Intra-Agency Activities
Chou	Katherine	NREL		P179	
Christensen	Steven	NREL		ST243	
Christensen	Steven	NREL		TA063	
Chung	Mark	NREL		SA177	
Cook	Bridger	Oregon State University	6/8/22 4:30 PM	SA182	Systems Analysis
Corrigan	Tom	The Lubrizol Corporation	6/8/22 12:00 PM	FC335	Fuel Cell Technologies
Cresko	Joe	DOE Advanced Manufacturing Office		AMO000	
Dahlke	Gregg	3M	6/8/22 11:00 AM	FC334	Fuel Cell Technologies
Dai	Sheng	ORNL		ST148	
De Castro	Emory	Advent Technologies	6/7/22 4:30 PM	FC354	Safety, Codes and Standards
Dinh	Huyen	NREL	6/8/22 12:00 PM	P148	Hydrogen Technologies
Dogdibegovic	Emir	Nexceris, LLC		P188	
Ehrhart	Brian	SNL	6/7/22 4:00 PM	SCS011	Safety, Codes and Standards
Ehrhart	Brian	SNL		SCS033	
Elgowainy	Amgad	ANL		IN025	
Elgowainy	Amgad	ANL	6/8/22 11:00 AM	SA174	Systems Analysis
Elgowainy	Amgad	ANL		SA178	
Elgowainy	Amgad	ANL	6/8/22 2:00 PM	NE002	Intra-Agency Activities
Erlebacher	Jonah	Johns Hopkins University		ARPAE010	
Farha	Omar	Northwestern University		ST209	
Findley	Kip	Colorado School of Mines		IN021	
Frew	Bethany	NREL	6/8/22 11:30 AM	SA175	Systems Analysis
Frye	Evan	DOE Office of Fossil Energy and Carbon Management		FE000B	
Fu	Jian	DOE Wind Energy Technologies Office		WETO000	Intra-Agency Activities
Gennett	Tom	NREL		ST127	
Gennett	Tom	NREL		ST202	
Gevorgian	Vahan	NREL		WETO001	
Ghezel-Ayagh	Hossein	FuelCell Energy, Inc.		FC330	
Ghezel-Ayagh	Hossein	FuelCell Energy, Inc.	6/8/22 11:30 AM	TA039	Technology Acceleration
Ghezel-Ayagh	Hossein	FuelCell Energy		ARPAE005	
Ghezel-Ayagh	Hossein	FuelCell Energy	6/7/22 2:30 PM	FE003	Intra-Agency Activities

Ginley	David	NREL		P196f	
Goodman	Angela	NETL	6/7/22 1:30 PM	FE001	Intra-Agency Activities
Grimes	Marcus	Luna Innovations Inc.		IN014	
Guerra	Omar	NREL		H2059	
Gupta	Sreenath	ANL		AMO002	
Halliday	Devin	Gas Technology Institute	6/8/22 5:00 PM	IN016	Hydrogen Technologies
Harrison	Kevin	NREL		H2057	
Hartmann	Kevin	NREL		SCS001	
Haynes	Daniel	NETL		FE008	
Hecht	Ethan	SNL	6/7/22 3:30 PM	SCS010	Safety, Codes and Standards
Houchins	Cassidy	Strategic Analysis, Inc.		ST235	
Hovsapian	Robert	NREL		TA035	
Huang	Kevin	University of South Carolina		P190	
Huerta	Nicolas	PNNL	6/7/22 1:30 PM	FE001	Intra-Agency Activities
Hughes	Doug	Eaton Corporation		FC350	
Hupp	Greg	RotoFlow		IN019	
James	Brian	Strategic Analysis, Inc.	6/7/22 3:30 PM	FC353	Fuel Cell Technologies
James	Brian	Strategic Analysis, Inc.		P204	
James	Brian	Strategic Analysis, Inc.		NE004	
Jensen	Craig	University of Hawaii		ST234	
Kim	Yu Seung	LANL		FC341	
Kim	Moon Jung	University of Southern California	6/8/22 5:10 PM	SA185	Systems Analysis
Klebanoff	Lennie	SNL		TA009	
Klein	Ryan	NREL		PRA004	
Kohl	Paul A.	Georgia Institute of Technology		P185	
Koti	Archit	Cummins	6/8/22 5:00 PM	IA001	Technology Acceleration
Kruiswyk	Rich	Caterpillar, Inc.		FC352	
Kumar	Sharun	University of California, Berkeley	6/8/22 4:50 PM	SA183	Systems Analysis
Kuroki	Taichi	NREL		SCS030	
Kyle	Page	PNNL	6/8/22 12:00 PM	SA181	Systems Analysis
Leachman	Jacob	Washington State University	6/8/22 4:30 PM	IN015	Hydrogen Technologies
Lee	ChungHyuk	LANL		PRA002	
Leighton	Daniel	NREL	6/7/22 1:30 PM	TA048	Technology Acceleration
Lewis	Eric	NETL	6/8/22 12:30 PM	FE005	Intra-Agency Activities
Li	Xianglin	University of Kansas		FC317	
Li	Xiaodong	University of Virginia	6/7/22 2:30 PM	ST236	Hydrogen Technologies
Lin	Hongfei	Washington State University		ST217	
Lipman	Tim	LBNL		SA180	
Litster	Shawn	Carnegie Mellon University	6/8/22 2:30 PM	FC327	Fuel Cell Technologies
Liu	Xingbo	West Virginia University		P175	
Liu	Hong	Oregon State University		P184	
Liu	Ying	Phillips 66	6/7/22 2:00 PM	FE002	Intra-Agency Activities
Logan	Bruce	Pennsylvania State University		P202	
Long	Jeffrey	LBNL		ST224	
Lozier	Jacob	GM		TA058	
Luo	Jian	University of California, San Diego		P194	
Lustbader	Jason	NREL		TA041	
Ma	Shengqian	University of South Florida		ST210	
Marcinkoski	Jason	DOE Office of Nuclear Energy		NE000	
Maric	Radenka	University of Connecticut		TA027	
Marina	Olga	PNNL		P196e	
Marina	Olga	PNNL	6/8/22 12:30 PM	TA043	Technology Acceleration
Marina	Olga	PNNL		P170	
Masel	Richard	Alchemr, Inc	6/7/22 4:30 PM	TA054	Technology Acceleration
McFarland	Eric	C-Zero, LLC		P182	
McGuirk	Michael	Colorado School of Mines		ST218	
McShane	William	DOE Water Power Technologies Office		WPTO000	
Meeks	Noah	Southern Company Services, Inc.		P203	
Minh	Nguyen	University of California, San Diego		ARPAE013	
Mohite	Aditya D.	William Marsh Rice University		P193	
Myers	Deborah	ANL		P196a	
Myers	Deborah	ANL	6/8/22 4:30 PM	FC160	Fuel Cell Technologies
Myhre	Rich	Frontier Energy Inc.	6/7/22 2:00 PM	TA037	Technology Acceleration
Naskar	Amit	ORNL	6/7/22 4:30 PM	ST240	Hydrogen Technologies
Nibur	Kevin	Hy-Performance		IN029	
Ocampo	Minette	pH Matter, LLC	6/8/22 4:00 PM	FC167	Fuel Cell Technologies
Omalley	Ronald	Missouri University of Science & Technolog	6/8/22 2:30 PM	TA053	Technology Acceleration
Onorato	Shaun	NREL		H2061	
Onorato	Shaun	NREL		SCS031	
Otgonbaatar	Uuganbayar	Exelon	6/8/22 11:00 AM	TA028	Technology Acceleration
Owejan	Jon	Plug Power		FC346	
Pal	Narendra	Hornblower	6/8/22 4:00 PM	TA045	Technology Acceleration
Park	Andrew	The Chemours Company FC, LLC		P186	
Paulauskas	Felix	ORNL	6/7/22 3:30 PM	ST239	Hydrogen Technologies

Paxson	Adam	Plug Power	6/8/22 2:30 PM	P199	Hydrogen Technologies
Pez	Guido	Energy 18H, LLC		FC360	
Pietras	John	Saint-Gobain		P176	
Pintauro	Peter	Vanderbilt University		FC304	
Pintauro	Peter	Vanderbilt University		ARPAE012	
Pivovar	Bryan	NREL		FC342	
Pivovar	Bryan	NREL	6/8/22 11:00 AM	P196	Hydrogen Technologies
Polsky	Yarom	ORNL		FE007	
Post	Matthew	NREL		TA013	
Prabakar	Kumaraguru	NREL		TA062	
Prendergast	David	LBNL		ST225	
Quackenbush	Karen	Fuel Cell and Hydrogen Energy Association		SCS022	
Quong	Spencer	Electricore		TA017	
Quong	Spencer	Electricore	6/8/22 4:30 PM	TA049	Technology Acceleration
Ramaswamy	Nagappan	GM	6/8/22 1:30 PM	FC323	Fuel Cell Technologies
Reddoch	Thomas	EPRI	6/7/22 2:30 PM	SCS028	Safety, Codes and Standards
Roberts	Rory	Tennessee Tech University	6/7/22 4:30 PM	ARPAE002	Intra-Agency Activities
Rockward	Tommy	LANL		FC355	
Rockward	Tommy	LANL		SCS007	
Ronevich	Joe	SNL		SCS005	
Rotz	Derek	Daimler Trucks North America		TA056	
Rupnowski	Peter	NREL	6/8/22 1:30 PM	TA001	Technology Acceleration
Rupnowski	Peter	NREL		TA066	
Ruth	Mark	NREL		P196d	
San Marchi	Chris	SNL		H2060	
San Marchi	Chris	SNL		IN001a	
San Marchi	Chris	SNL	6/8/22 4:00 PM	IN035	Hydrogen Technologies
Saur	Genevieve	NREL		TA042	
Scheffe	Jonathan	University of Florida		P195	
Schrecengost	Bob	DOE Office of Fossil Energy and Carbon Management		FE000A	
Semelsberger	Troy	LANL		ST242	
Shao	Yuyan	PNNL		FC172	
Shultz	Avi	DOE Solar Energy Technologies Office		SETO000	
Siegel	Don	University of Michigan		ST211	
Simmons	Kevin	PNNL		IN001b	
Singh	Prabhakar	University of Connecticut		P152	
Singh	Jaswinder	Caterpillar, Inc.		AMO001	
Slack	John	Nikola Motor Company	6/8/22 2:00 PM	FC326	Fuel Cell Technologies
Snyder	Joshua	Drexel University		FC309	
Sofronis	Petros	University of Illinois Urbana-Champaign		IN026	
Soloveichik	Grigorii	DOE Advanced Research Projects Agency - Energy		ARPAE000	
Space	Brian	University of South Florida		ST213	
Spruk	Sam	NREL		H2041	
Spruk	Sam	NREL		ST008	
Spruk	Sam	NREL		TA064	
Stadie	Nicholas	Montana State University		ST214	
Staller	Corey	Celedyne Technologies, Inc.		FC357	
Stavila	Vitalie	SNL		ST233	
Steinbach	Andrew	3M	6/8/22 2:00 PM	P197	Hydrogen Technologies
St-Pierre	Jean	Cummins Inc.	6/7/22 4:00 PM	FC337	Fuel Cell Technologies
Striker	Todd	Cummins Inc.		P201	
Sun	Pingping	NREL	6/8/22 3:30 PM	IN034	Hydrogen Technologies
Swartz	Scott	Nextech Materials, Ltd.		P200	
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Swider Lyons	Karen	Plug Power	6/7/22 4:30 PM	FC338	Fuel Cell Technologies
Tasan	C. Cem	Massachusetts Institute of Technology		IN030	
Thompson	Gregory	The University of Alabama		IN022	
Topolski	Kevin	NREL	6/8/22 3:30 PM	IN034	Hydrogen Technologies
Topping	Chris	Tetramer Technologies, LLC		FC343	
Tucker	David	NETL		ARPAE006	
Tucker	Mike	LBNL		ARPAE007	
Ulsh	Michael	NREL		P196c	
Ulsh	Michael	NREL		TA050	
Urban	Marek	Clemson University		IN020	
Vargas	Nicolas Alfonso	University of Southern California	6/8/22 5:10 PM	SA185	Systems Analysis
Vetrano	John	DOE Office of Science		BES000	
Vijayagopal	Ram	ANL		TA059	
Wagner	Andrew	Mainstream Engineering		TA005	
Wang	CH	Treadstone Technologies, Inc.		FC345	
Wang	Paul	Caterpillar, Inc.	6/7/22 2:30 PM	TA044	Technology Acceleration
Weber	Adam	LBNL		P196b	
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Wei	Max	LBNL		FC332	
Weimer	Alan W.	University of Colorado, Boulder		P183	

Weisenberger	Matthew	University of Kentucky	6/7/22 2:00 PM	ST238	Hydrogen Technologies
Wellenkotter	Kurt	GM		TA058	
Wendt	Dan	INL		NE003	
Westover	Tyler	INL	6/7/22 3:30 PM	FE004	Intra-Agency Activities
White	Joshua	LLNL	6/7/22 1:30 PM	FE001	Intra-Agency Activities
Williams	Travis	University of Southern California		ST216	
Winter	Dylan	Hexagon R&D	6/7/22 4:00 PM	ST237	Hydrogen Technologies
Wolden	Colin	Colorado School of Mines		ARPAE009	
Wonnell	Amanda	University of California, Berkeley	6/8/22 4:50 PM	SA183	Systems Analysis
Wood	Brandon	LLNL		P196g	
Wood	Brandon	LLNL		ST207	
Wright	Ruishu	NETL		FE009	
Xiang	Chengxiang	Caltech		ARPAE003	
Xu	Hui	Giner, Inc.		FC170	
Xu	Hui	Giner, Inc.		FC328	
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Xu	Hui	Giner, Inc.	6/8/22 3:30 PM	FC356	Fuel Cell Technologies
Xu	Hui	Giner, Inc.	6/7/22 4:00 PM	TA051	Technology Acceleration
Yan	Yanfa	The University of Toledo		P191	
Yang	J.V.	Raytheon Technologies Research Center		FC344	
Zawodzinski	Tom	University of Tennessee - Knoxville	6/8/22 12:30 PM	FC336	Fuel Cell Technologies
Zelenay	Piotr	LANL	6/8/22 4:30 PM	FC160	Fuel Cell Technologies
Zhang	Kun	Shell	6/7/22 1:30 PM	ST241	Hydrogen Technologies
Zhu	Tianli	Raytheon Technologies Research Center		P154	
Zulevi	Barr	Pajarito Powder, LLC		FC358	