

2014 DOE HYDROGEN and FUEL CELLS PROGRAM and VEHICLE TECHNOLOGIES OFFICE ANNUAL MERIT REVIEW and PEER EVALUATION MEETING OVERALL SCHEDULE

Monday June 16 - Washington Marriott Wardman Park Hotel

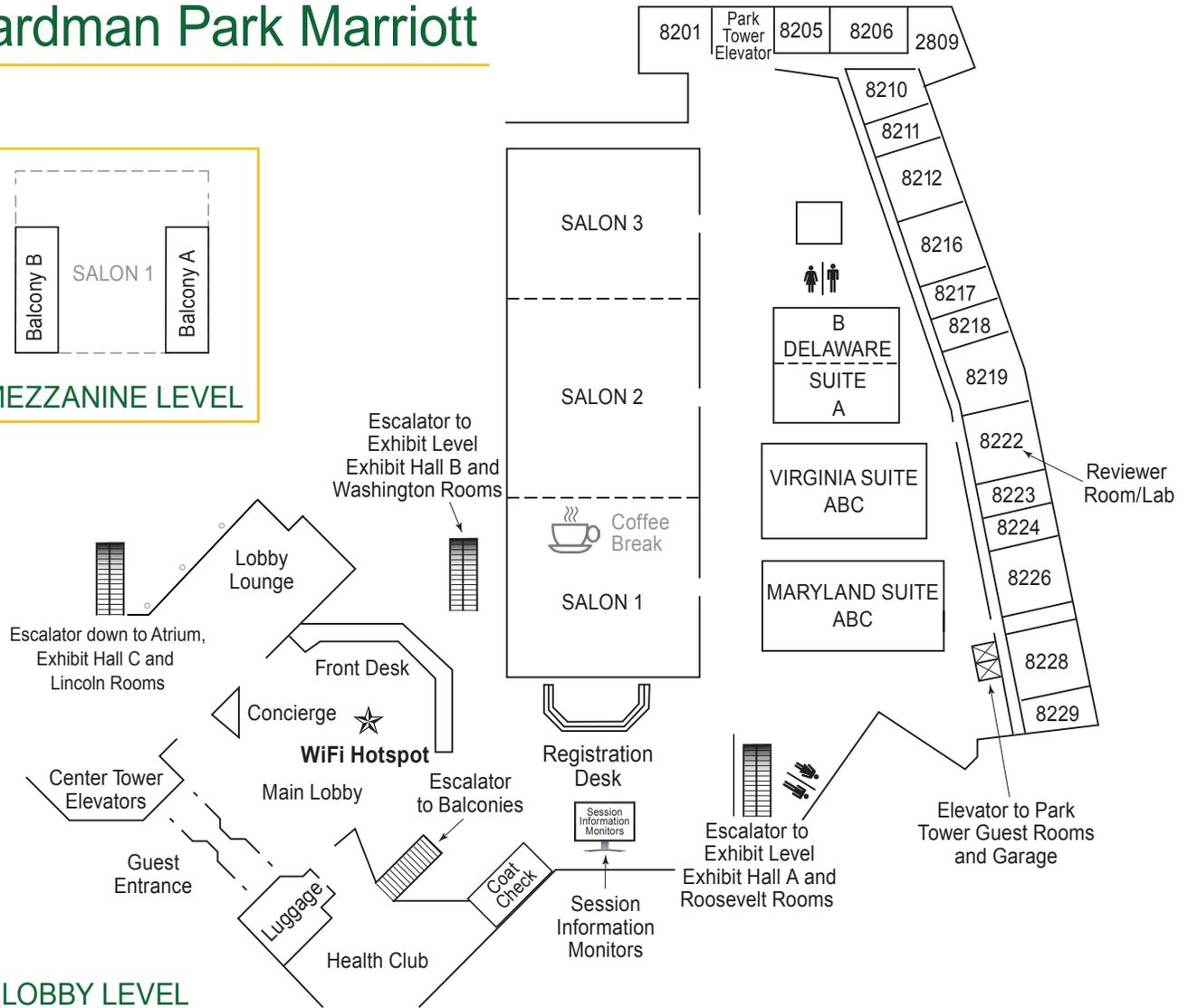
11:00	Reviewer Orientation (Delaware B) Note: Reviewer Lab in Park Tower 8222; Hours: Mon 3-6pm; Tue-Thr 7:30am to 8:00pm; Fri 7:30 to noon
12:00	Lunch (on your own)
1:00	Plenary Session: Guest Speakers and Overviews of the Hydrogen and Fuel Cells Program and Vehicle Technologies Office (Salons 2 and 3)
2:45	Break (Salon 1)
3:15	Clean Vehicles Consortium: Research Overview and Implementation Pathways, Hwei Peng, Director, CERC-CVC Overview of California Hydrogen Fuel Cell Vehicle Activities, Catherine Dunwoody, California Fuel Cell Partnership & California Air Resources Board
3:30	Advanced Combustion Engine R&D Overview* Production and Delivery Overview**
4:00	Vehicle and Systems Simulation* Hydrogen Storage Overview**
4:30	Electrochemical Energy Storage Overview* Fuel Cells Overview**
5:00	Fuel & Lubricant Technologies Overview* Manufacturing R&D Overview**
5:45	Reviewer Orientation (Delaware B) Note: Reviewer Lab in Park Tower 8222; Hours: Mon 3-6pm; Tue-Thr 7:30am to 8:00pm; Fri 7:30 to noon
6:00	Poster Session I: Vehicle and Systems Simulation and Technology Integration (Exhibit Hall A); Electrochemical Storage and Basic Energy Sciences Electrochemical Storage (Exhibit Hall B)

Schedule as of: **8-Jul-14**

Tuesday June 17										Wednesday June 18										Thursday June 19										Friday June 20					
Session Rooms	Delaware A	Roosevelt 3	Maryland ABC	Delaware B	Washington 1	Washington 3	Roosevelt 1	Washington 5	Virginia ABC																										
7:15 AM	Continental Breakfast (Salon 1)										Continental Breakfast (Salon 1, Washington 4)										Continental Breakfast (Salon 1, Washington 4)										Continental Brkf. (Salon 1, Wash. 4)				
8:15 AM																																			
8:30 AM	Materials ¹			Systems Analysis ²							ACE	APE	ES	LM	VSS	SCS	PD	ST	FC	ACE	FT	ES	LM	VSS	TI	PD	FC	ACE	PM	VSS	TI				
9:00 AM	Adv. Power Electronics ¹			Safety, Codes & Stan. ²							ACE	APE	ES	LM	VSS	SCS	PD	ST	FC	ACE	FT	ES	LM	VSS	TI	PD	FC	ACE	PM	VSS	TI				
9:30 AM	VT Analysis ¹			Technology Validation ²							ACE	APE	ES	LM	VSS	SCS	PD	ST	FC	ACE	FT	ES	LM	VSS	TI	PD	VSS	FC	ACE	PM	VSS	TI			
10:00 AM	Technology Integration ¹			Market Transformation ²							ACE	APE	ES	LM	VSS	SCS	PD	ST	FC	ACE	FT	ES	LM	TI	PD	VSS	FC	ACE	PM	TI	TI				
10:30 AM	Break (Salon 1 and Washington 4)										Break (Salon 1 and Washington 4)										Break (Salon 1 and Washington 4)										Break (Salon 1 and Washington 4)				
11:00 AM	ACE	APE	ES	LM	VSS	AN	PD	ST	FC	ACE	APE	ES	LM	VSS	SCS	PD	ST	FC	ACE	FT	ES	ACE	VSS	TI	PD	VSS	FC	ACE	PM	TI					
11:30 AM	ACE	APE	ES	LM	VSS	AN	PD	ST	FC	ACE	APE	ES	LM	VSS	SCS	PD	ST	FC	ACE	FT	ES	ACE	VSS	TI	PD	VSS	FC	ACE	PM	TI					
12:00 PM	ACE	APE	ES	LM	VSS	AN	PD	ST	FC	ACE	APE	ES	LM	VSS	SCS	PD	ST	FC	ACE	FT	ES	ACE	VSS	TI	PD	VSS	FC	ACE	PM	TI					
12:30 PM	Lunch (Salons 2 and 3)										Lunch (Salons 2 and 3)										Lunch (Salons 2 and 3)														
	1:00 PM - Sunita Satyapal: Hydrogen and Fuel Cells Program Awards Presentations										1:00 PM - Patrick Davis: Vehicle Technologies Office Awards Presentations										Lunch (Salons 2 and 3)														
1:45 PM	ACE	APE	ES	LM	VSS	AN	PD	ST	FC	ACE	VAN	ES	LM	VSS	SCS	PD	ST	FC	ACE	FT	H2 IN	PM	VSS	TI	BES	MT	TV	VT Office	ACE: Adv. Combustion Engine R&D APE: Advanced Power Electronics ES: Electrochemical Storage FT: Fuel & Lubricant Technologies LM: Light-Weight Materials PM: Propulsion Materials TI: Technology Integration VAN: VT Analysis VSS: Vehicle & Systems Simulation						
2:15 PM	ACE	APE	ES	LM	VSS	AN	PD	ST	FC	ACE	VAN	ES	LM	VSS	SCS	BES	ST	FC	ACE	FT	H2 IN	PM	VSS	TI	BES	MT	TV								
2:45 PM	ACE	APE	ES	LM	VSS	AN	PD	ST	FC	ACE	VAN	ES	LM	VSS	SCS	BES	ST	FC	ACE	FT	H2 IN	PM	VSS	TI	BES	MT	TV								
3:15 PM	ACE	APE	ES	LM	VSS	AN	PD	ST	FC	ACE	VAN	ES	LM	VSS	SCS	BES	ST	FC	ACE	FT	H2 IN	PM	VSS	TI	BES	MT	TV								
3:45 PM	Break (Salon 1 and Washington 4)										Break (Salon 1 and Washington 4)										Break (Salon 1 and Washington 4)														
4:15 PM	ACE	APE	ES	LM	VSS	AN	PD	ST	FC	ACE	VAN	ES	LM	VSS	SCS	BES	MN1	FC	ACE	FT	H2 IN	PM	VSS	TI	BES	MT	TV	H2&FC Program	H2 IN: Hydrogen Infrastructure PD: Production & Delivery ST: Hydrogen Storage FC: Fuel Cells MN: Manufacturing TV: Technology Validation SCS: Safety, Codes & Standards MT: Market Transformation AN: Systems Analysis						
4:45 PM	ACE	APE	ES	LM	VSS	AN	PD	ST	FC	ACE	VAN	ES	LM	VSS	SCS	BES	MN2	FC	ACE	FT	PM	VSS	TI	BES	MT	TV									
5:15 PM	ACE	APE	ES	LM	VSS	PD	ST	FC	ACE	VAN	ES	VSS	BES	FC	ACE	FT	PM	VSS	TI	H2RA	TV	ACE	FT	PM	VSS	TI	H2RA							TV	
5:45 PM					VSS		ST	FC				VSS		BES		FC					VSS	TI			H2RA	TV									
6:30 PM	POSTER SESSION II: Electrochemical Storage and Advanced Power Electronics (Exhibit Hall A)										POSTER SESSION III: Hydrogen Storage and Vehicle Technologies Analysis (Exhibit Hall A); Fuel Cells and ARPA-E (Exhibit Hall B)										POSTER SESSION IV: Propulsion Materials, Technology Validation, and Fuel & Lubricant Technologies (Exhibit Hall A); Hydrogen Production & Delivery, Basic Energy Sciences for Hydrogen Production, and H2 Student Design (Exhibit Hall B)														
8:30 PM																																			

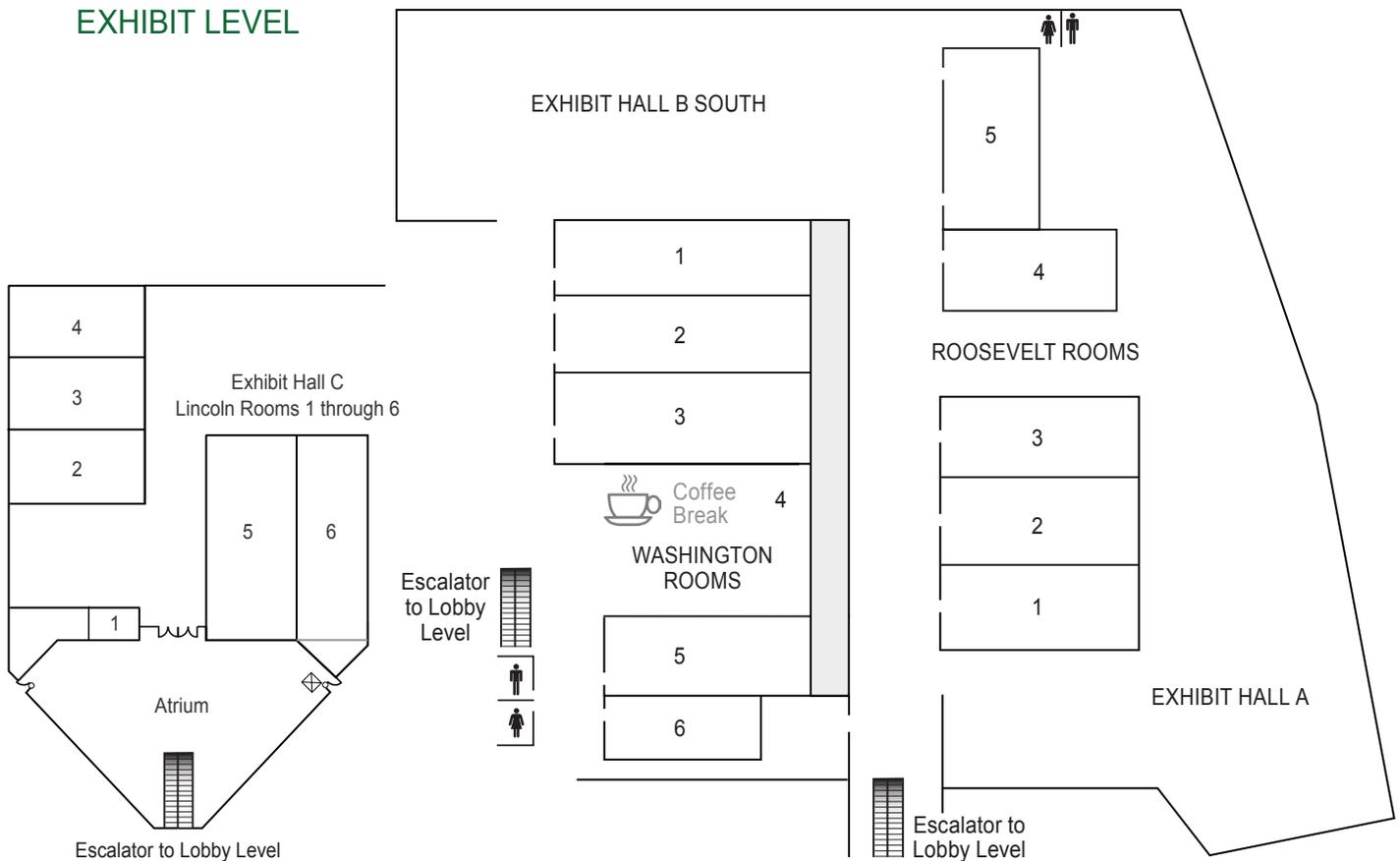
¹Maryland ABC; ²Virginia ABC

Wardman Park Marriott



LOBBY LEVEL

EXHIBIT LEVEL



Monday, June 16 - Poster Presentations

Exhibit Halls A and B, 6:00-8:00 PM

Electrochemical Storage
ES125; Donghai Wang, Pennsylvania State University: Development of High Energy Density Lithium-Sulfur Cells
ES126; Ionel Stefan, Amprius: Silicon Nanowire Anodes for Next Generation Energy Storage
ES127; Fabio Albano, XALT Energy: Development of Large Format Lithium Ion Cells with Higher Energy Density
ES128; Sergey Lopatin, Applied Materials: Modular Process Equipment for Low Cost Manufacturing of High Capacity Prismatic Li-Ion Cell Alloy Anodes
ES129; Hany Eitouni, Seoo: High-Voltage Solid Polymer Batteries for Electric Drive Vehicles
ES130; Yimin Zhu, Nanosys: Innovative Cell Materials and Designs for 300 Mile Range EVs
ES131; Jagat Singh, 3M: High Energy Novel Cathode / Alloy Automotive Cell
BES026; Shen Dillon, UIUC: In-Situ TEM Observations of Degradation Mechanisms in Next-Generation High Energy Density Lithium-Ion Battery Systems
BES027; Xiaowei Teng, University of New Hampshire: Transition Metal Oxides Spinel Nanomaterials for Supercapacitor Reactions
BES028; Nina Balke, ORNL: Spatially Resolved Ionic Diffusion and Electrochemical Reactions in Solids: A Biased View at Lithium Ion Batteries
BES029; Ajay Singh, LBNL: Inorganic nanocomposite electrodes for electrochemical energy storage and energy conservation
BES030; Shirley Meng, UCSD: New In Situ Analytical Electron Microscopy for Understanding Structure Evolution and Composition Change in High Energy Density
BES031; Chengdu Liang, ORNL: In situ Studies of Solid Electrolyte Interphase on Nanostructured Materials
BES032; Harry Tuller, MIT: Chemomechanics of Far-From-Equilibrium Interfaces (COFFEI)
BES033; Younes Ansari, UT-Austin: Materials and Interfacial Chemistry for Next-Generation Electrical Energy Storage (partner with ORNL)
BES034; Mengqiang Zhao, Drexel: Silicon Carbide Derived Carbons: Experiments and Modeling
BES035; Ralph Colby, Penn State University: Conduction Mechanisms and Structure of Ionomeric Single-Ion Conductors
BES036; Jun Liu, PNNL: Molecularly Organized Nanostructured Materials
BES037; Yet-Ming Chiang, MIT: Electrochemically-Driven Phase Transitions in Battery Storage Compounds
BES038; Mallory Gobet, CUNY-Hunter College: Spectroscopic Studies of Materials for Electrochemical Energy Storage
BES039; Tim Fister, ANL: Center for Electrical Energy Storage: Tailored Interfaces
BES040; Stan Whittingham, SUNY Stony Brook: Northeastern Chemical Energy Storage Center (NOCESC)
BES041; Gary Rubloff, Univ. of Maryland: Science of Precision Multifunctional Nanostructures for Electrical Energy Storage
BES042; Grigori Soloveichik, General Electric: Center for Electrocatalysis, Transport Phenomena and Materials for Innovative Energy Storage
BES043; Hector Abruna, Cornell: Nanostructured Interfaces for Energy Generation, Conversion, and Storage
BES044; George Crabtree, ANL: A New Paradigm for Beyond Lithium Ion Battery R&D
BES045; Brett Lucht, Brown University: Fundamental Investigations of Mechanical and Chemical Degradation Mechanisms in Lithium Ion Battery Materials
Vehicle and Systems Simulation
VSS139; Shane Halbach, ANL: Accelerating the Evaluation and Market Introduction of Advanced Technologies Through Model Based System Engineering
VSS140; Scott Curran, ORNL: Impacts of Advanced Combustion Engines
VSS053; Ted Bohn, ANL: EV-Smart Grid Research & Interoperability Activities
VSS005; George Fenske, ANL: DOE/DOD Parasitic Energy Loss Collaboration
VSS141; David Smith, ORNL: Powertrain Controls Optimization for Heavy Duty Line Haul Trucks
VSS104; Perry Jones, ORNL: Dynamic Feasibility Study
VSS142; Richard Pratt, PNNL: Vehicle Communications and Charging Control
VSS134; Jason Lustbader, NREL: Vehicle Thermal Systems Modeling in Simulink
VSS119; Adam Duran, NREL: Fleet DNA
Technology Integration
TI020; Chris Mi, Regents University of Michigan: Center for Electric Drive Transportation at the University of Michigan - Dearborn
TI021; Gregory Plett, University of Colorado: Innovative Drivetrains in Electric Automotive Technology Education (IDEATE)
TI022; Giorgio Rizzoni, Ohio State University: GATE: Energy Efficient Vehicles for Sustainable Mobility
TI023; Gregory Shaver, Purdue University: Hoosier Heavy Hybrid Center of Excellence at Purdue University
TI024; Imtiaz Haque, Clemson University: GATE Center of Excellence in Sustainable Vehicle Systems
TI025; Joel Anstrom, Pennsylvania State University: IN-VEHICLE, HIGH-POWER ENERGY STORAGE SYSTEMS
TI026; Uday Vaidya, University of Alabama: GATE Center of Excellence at UAB for Lightweight Materials and Manufacturing for Automotive, Truck and Mass Transit
Clean Energy Research Center - Clean Vehicle Consortium
CERC1: Advanced Batteries
CERC2: Clean Combustion and Energy Conversion
CERC3: Vehicle Electrification
CERC4: Advanced Lightweight Materials and Vehicle Structures
CERC5: Vehicle-Grid Integration
CERC6: Energy Systems Analysis, Technology Road-maps, and Policy



Please mute all cell phones and other portable devices.



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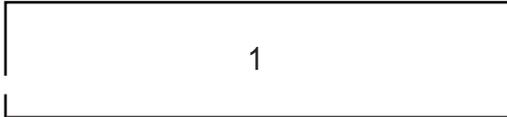
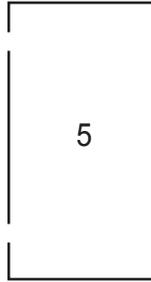
Monday Poster Map

EXHIBIT LEVEL

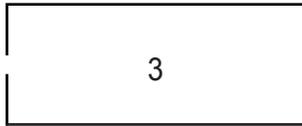
<u>BES026</u>	<u>BES027</u>	<u>BES028</u>	<u>BES029</u>	<u>BES030</u>	<u>BES031</u>	<u>BES032</u>
<u>BES039</u>	<u>BES038</u>	<u>BES037</u>	<u>BES036</u>	<u>BES035</u>	<u>BES034</u>	<u>BES033</u>

EXHIBIT HALL B SOUTH

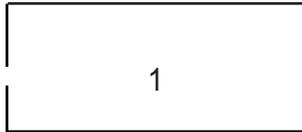
<u>BES040</u>	<u>BES041</u>	<u>BES042</u>	<u>BES043</u>	<u>BES044</u>	<u>BES045</u>	_____
<u>ES125</u>	<u>ES126</u>	<u>ES127</u>	<u>ES128</u>	<u>ES129</u>	<u>ES130</u>	<u>ES131</u>



<u>TI020</u>	<u>TI021</u>	<u>TI022</u>
<u>TI025</u>	<u>TI024</u>	<u>TI023</u>
<u>TI026</u>		



<u>VSS139</u>	<u>VSS140</u>	<u>VSS053</u>	<u>VSS005</u>
<u>VSS134</u>	<u>VSS142</u>	<u>VSS104</u>	<u>VSS141</u>

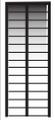


<u>CERC5</u>	<u>CERC6</u>
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EXHIBIT HALL A

<u>CERC4</u>	<u>CERC3</u>
<u>CERC1</u>	<u>CERC2</u>

Escalator to Lobby Level



Escalator to Lobby Level

Tuesday, June 17 - Oral Presentations

Salon	Delaware A	Roosevelt 3	Maryland ABC
11:00 AM	ACE001; Mark Musculus, SNL: Heavy-Duty Low-Temperature and Diesel Combustion & Heavy-Duty Combustion Modeling	APE032; Christopher Whaling, Synthesis Partners: North American Power Electronics Supply Chain Analysis	ES116; Brian Cunningham, DOE: Overview and Progress of the Battery Testing, Design, and Analysis Activity
11:30 AM	ACE002; Paul Miles, SNL: Light-Duty Diesel Combustion	APE040; Sean Gleason, General Motors: Next Generation Inverter	ES121; Sreekanth Pannala, ORNL: Open Architecture Software for CAEBAT
12:00 PM	ACE004; John Dec, SNL: Low-Temperature Gasoline Combustion (LTGC) Engine Research	APE058; Kraig Olejniczak, APEI Inc.: Advanced Low-Cost SiC and GaN Wide Bandgap Inverters for Under-the-Hood Electric Vehicle Traction Drives	ES118; Steven Hartridge, CD-Adapco: Development of Computer-Aided Design Tools for Automotive Batteries
12:30 LUNCH	1:00 PM - Sunita Satyapal: Hydrogen and Fuel Cells Program Awards Presentations		
1:45 PM	ACE005; Lyle Pickett, SNL: Spray Combustion Cross-Cut Engine Research	APE053; Madhu Chinthavali, ORNL: Inverter R&D	ES119; Taeyoung Han, General Motors: Development of Computer-Aided Design Tools for Automotive Batteries
2:15 PM	ACE006; Isaac Ekoto, SNL: Automotive Low Temperature Gasoline Combustion Engine Research	APE049; Zhenxian Liang, ORNL: Power Electronics Packaging	ES120; Christian Shaffer, EC-Power: Development of Cell/Pack Level Models for Automotive Li-Ion Batteries with Experimental Validation
2:45 PM	ACE007; Joe Oefelein, SNL: Large Eddy Simulation (LES) Applied to Advanced Engine Combustion Research	APE054; Gui-Jia Su, ORNL: WBG Converters and Chargers	ES197; Gi-Heon Kim, NREL: Significant Enhancement of Computational Efficiency in Nonlinear Multiscale Battery Model for Computer Aided Engineering
3:15 PM	ACE014; David Carrington, LANL: 2014 KIVA Development	APE027; Philip Neudeck, NASA: Development of SiC Large Tapered Crystal Growth	ES189; Harry Moffat, SNL: Coupled Hierarchical Models for Thermal, Mechanical, Electrical and Electrochemical Processes
3:45 PM	BREAK	BREAK	BREAK
4:15 PM	ACE012; Russell Whitesides, LLNL: Model Development and Analysis of Clean & Efficient Engine Combustion	APE059; Angelo Yializis, Sigma Technologies International: High Temperature DC-Bus Capacitors Cost Reduction and Performance Improvements	ES199; Ahmad Pesaran, NREL: Coupling of Mechanical Behavior of Cell Components to Electrochemical-Thermal Models for Computer Aided Engineering of Batteries Under Abuse
4:45 PM	ACE013; Bill Pitz, LLNL: Chemical Kinetic Models for Advanced Engine Combustion	APE060; Dan Tan, GE Global Research: High Performance DC Bus Film Capacitor	ES200; Christian Shaffer, EC-Power: Efficient Safety and Degradation Modeling of Automotive Li-ion Cells and Pack
5:15 PM	ACE076; Matthew McNenly, LLNL: Improved Solvers for Advanced Engine Combustion Simulation	APE061; Balu Balachandran, ANL: Cost-Effective Fabrication of High-Temperature Ceramic Capacitors for Power Inverters	ES108; Tien Duong, DOE: Overview and Progress of the Batteries for Advanced Transportation Technologies
5:45 PM			



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Tuesday, June 17 - Oral Presentations

Salon	Delaware B	Washington 1	Washington 3
11:00 AM	LM003; Lee McGetrick, ORNL: Carbon Fiber Technology Facility	VSS095; Keith Hardy, ANL: EV - Smart Grid Research & Interoperability Activities	AN044; Aymeric Rousseau, ANL: Impact of Fuel Cell System Peak Efficiency on Fuel Consumption and Cost
11:30 AM	LM006; Felix Paulauskas, ORNL: Advanced Oxidation & Stabilization of PAN-Based Carbon Precursor Fibers	VSS122; Richard Pratt, PNNL: Vehicle to Grid Communications and Field Testing	AN045; Amgad Elgowainy, ANL: Analysis of Incremental Fueling Pressure Cost
12:00 PM	LM048; George Husman, Zoltek: Development and Commercialization of a Novel Low-Cost Carbon Fiber	VSS123; Laura Marlino, ORNL: SAE J2907 Hybrid Motor Ratings Support	AN033; Zhenhong Lin, ORNL: Analysis of Optimal On-Board Storage Pressure for Hydrogen Fuel Cell Vehicles
12:30 LUNCH	1:00 PM - Sunita Satyapal: Hydrogen and Fuel Cells Program Awards Presentations		
1:45 PM	LM083; Ba Nghiep Nguyen, PNNL: Predictive Engineering Tools for Injection-Molded Long-Carbon-Fiber Composites	VSS029; Tom Garetson, Intertek: Advanced Vehicle Testing & Evaluation	AN046; Zhenhong Lin, ORNL: Hydrogen Station Economics and Business (HySEB)--Preliminary Results
2:15 PM	LM084; Libby Berger, GM: Validation of Material Models for Automotive Carbon Fiber Composite Structures	VSS021; Matthew Shirk, INL: Idaho National Laboratory Testing of Advanced Technology Vehicles	AN047; Brendan Shaffer, UCI: Tri-Generation Fuel Cell Technologies for Location-Specific Applications
2:45 PM	LM072; Tim Skszek, VEHMA: Multi-Material Lightweight Vehicles	VSS030; Kevin Stutenberg, ANL: Advanced Technology Vehicle Lab Benchmarking - Level 1	AN036; Todd Ramsden, NREL: Pathway Analysis: Projected Cost, Lifecycle Energy Use and Emissions of Future Hydrogen Technologies
3:15 PM	LM071; Tom Wenzel, LBNL: Relationships between Vehicle Mass, Footprint, and Societal Risk	VSS031; Eric Rask, ANL: Advanced Technology Vehicle Lab Benchmarking - Level 2 (in-depth)	AN039; Amgad Elgowainy, ANL: Life-Cycle Analysis of Water Consumption for Hydrogen Production Pathways
3:45 PM	BREAK	BREAK	BREAK
4:15 PM	LM081; Uday Vaidya, Univ Alabama Birmingham: GATE Center of Excellence at UAB for Lightweight Materials and Manufacturing for Automotive, Truck and Mass Transit	VSS001; Kevin Walkowicz, NREL: Medium and Heavy-Duty Vehicle Field Evaluations	AN035; Marianne Mintz, ANL: Employment Impacts of Infrastructure Development for Hydrogen and Fuel Cell Technologies
4:45 PM	LM085; Khongor Jamiyanaa, Univ Alabama Birmingham: Development of Thermoplastic Pultrusion with Modeling and Experiments	VSS046; Daniel Leighton, NREL: Integrated Vehicle Thermal Management – Combining Fluid Loops in Electric Drive Vehicles	AN049; Joshua Eichman, NREL: Electricity Market Valuation for Hydrogen Technologies
5:15 PM	LM088; Tim Skszek, VEHMA: Multi-Material Lightweight Vehicles: Mach II Design	VSS124; Kevin Walkowicz, NREL: Medium Duty ARRA Data Reporting and Analysis	
5:45 PM		VSS097; John Rugh, NREL: Electric Drive Vehicle Climate Control Load Reduction	



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Tuesday, June 17 - Oral Presentations

Salon	Roosevelt 1	Washington 5	Virginia ABC
11:00 AM	PD014; Amgad Elgowainy, ANL: Hydrogen Delivery Infrastructure Analysis	ST001; Rajesh Ahluwalia, ANL: System Level Analysis of Hydrogen Storage Options	FC109; Michael Yandrasits, 3M: New Fuel Cell Membranes with Improved Durability & Performance
11:30 AM	PD100; Kevin Harrison, NREL: 700 bar Hydrogen Dispenser Hose Reliability Improvement	ST100; Brian James, Strategic Analysis, Inc.: Ongoing Analysis of H2 Storage System Costs	FC110; Andrew Herring, Colorado School of Mines: Advanced Hybrid Membranes for Next Generation PEMFC Automotive Applications
12:00 PM	PD088; Zhili Feng, ORNL: Vessel Design and Fabrication Technology for Stationary High-Pressure Hydrogen Storage	ST014; Phil Parilla, NREL: Hydrogen Sorbent Measurement Qualification and Characterization	FC006; Dennis van der Vliet, 3M: Durable Catalysts for Fuel Cell Protection During Transient Conditions
12:30 LUNCH	1:00 PM - Sunita Satyapal: Hydrogen and Fuel Cells Program Awards Presentations		
1:45 PM	PD025; Brian Somerday, SNL: Hydrogen Embrittlement of Structural Steels	ST103; Jeffrey Long, LBNL: Hydrogen Storage in Metal-Organic Frameworks	FC007; Bryan Pivovar, NREL: Extended, Continuous Pt Nanostructures in Thick, Dispersed Electrodes
2:15 PM	PD022; George Rawls, SRNL: Fiber Reinforced Composite Pipelines	ST019; Peter Pfeifer, U of Missouri: Multiply Surface-Functionalized Nanoporous Carbon for Vehicular Hydrogen Storage	FC008; Vojislav Stamenkovic, ANL: Nanosegregated Cathode Catalysts with Ultra-Low Platinum Loading
2:45 PM	PD048; Ludwig Lipp, FuelCell Energy, Inc.: Electrochemical Hydrogen Compressor	ST104; Tom Autrey, PNNL: Novel Carbon(C)-Boron(B)-Nitrogen(N)-Containing H2 Storage Materials	FC009; Radoslav Adzic, BNL: Contiguous Platinum Monolayer Oxygen Reduction Electrocatalysts on High-Stability-Low-Cost Supports
3:15 PM	PD017; Frank Di Bella, Concepts NREC: Development of a Centrifugal Hydrogen Pipeline Gas Compressor	ST063; Ragaizy Zidan, SRNL: Reversible Formation of Alane	FC010; Fernando Garzon, LANL: The Science and Engineering of Durable Ultralow PGM Catalysts
3:45 PM	BREAK	BREAK	BREAK
4:15 PM	PD021; Don Baldwin, Hexagon Lincoln: Development of High Pressure Hydrogen Storage Tank for Storage and Gaseous Truck Delivery	ST093; Felix Paulauskas, ORNL: Melt Processable PAN Precursor for High Strength, Low-Cost Carbon Fibers	FC085; Nilesh Dale, Nissan: Synthesis and Characterization of Mixed-Conducting Corrosion Resistant Oxide Supports
4:45 PM	PD101; Keith Hill, Nanosonic: Cryogenically Flexible, Low Permeability H2 700 Bar Delivery Hose	ST099; Dave Warren, ORNL: Development of Low-Cost, High Strength Commercial Textile Precursor (PAN-MA)	FC086; Sanjeev Mukerjee, Northeastern Univ: Development of Novel Non-Pt Group Metal Electrocatalysts for Proton Exchange Membrane Fuel Cell Applications
5:15 PM	PD016; Hooshang Heshmat, Mohawk Innovative Technology: Oil-Free Centrifugal Hydrogen Compression Technology	ST101; Kevin Simmons, PNNL: Enhanced Materials and Design Parameters for Reducing the Cost of Hydrogen Storage	FC087; Anusorn Kongkanand, GM: High-Activity Dealloyed Catalysts
5:45 PM		ST111; Salvador Aceves, LLNL: Thermomechanical Cycling of Thin Liner High Fiber Fraction Cryogenic Pressure Vessels Rapidly Refueled by LH2 pump to 700 bar	FC088; Branko Popov, U of South Carolina: Development of Ultra-Low Doped-Pt Cathode Catalysts for PEM Fuel Cells



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Tuesday, June 17 - Poster Presentations

Exhibit Hall A, 6:30-8:30 PM

Electrochemical Storage
ES132; Gary Voelker, Miltec UV International: Utilization of UV or EB Curing Technology to Significantly Reduce Costs and VOCs in the Manufacture of Lithium-Ion Battery Electrodes
ES133; YK Son, Johnson Controls: Significant Cost Improvement of Li-Ion Cells Through Non-NMP Electrode Coating, Direct Separator Coating, and Fast Formation Technologies
ES134; Mike Wixom, Navitas Systems: Dry Process Electrode Fabrication
ES135; Brad Brodie, DENSO International America: Stand-Alone Battery Thermal Management System
ES136; Steve Carlson, Optodot Corporation: Innovative Manufacturing and Materials for Low-Cost Lithium-Ion Batteries
ES201; Ira Bloom, ANL: Electrochemical Performance Testing
ES202; Jon Christophersen, INL: INL Electrochemical Performance Testing
ES203; Christopher Orendorff, SNL: Battery Safety Testing
ES204; Matthew Keyser, NREL: Battery Thermal Characterization
ES205; Steven Sloop, OnTo Technology: Advanced Battery Recycling
ES206; Jong Yoo, Applied Spectra: Real-time Metrology for Li-ion Battery R&D and Manufacturing
ES143; Jack Vaughney, ANL: Novel Anode Materials
ES049; Michael Thackeray, ANL : Design and Evaluation of High Capacity Cathodes
ES063; Stanley Whittingham, Binghamton University-SUNY: Metal-Based High Capacity Li-Ion Anodes
ES183; Feng Wang, BNL : In situ Solvothermal Synthesis of Novel High Capacity Cathodes
ES059; Xiao-Qing Yang, BNL : Advanced in situ Diagnostic Techniques for Battery Materials
ES220; Dean Wheeler, BYU: Predicting Microstructure and Performance for Optimal Cell Fabrication
ES221; Xingcheng Xiao, GM: A Combined Experimental and Modeling Approach for the Design of High Coulombic Efficiency Si Electrodes
ES222; Karim Zaghib, Hydro Quebec: Electrode Architecture-Assembly of Battery Materials and Electrodes
ES223; Gao Liu, LBNL: Hierarchical Assembly of Inorganic/Organic Hybrid Si Negative Electrodes
ES052; Marca Doeff, LBNL : Design of High Performance, High Energy Cathode Materials
ES085; Robert Kostecki, LBNL : Interfacial Processes in EES Systems Advanced Diagnostics
ES224; Nitash Balsara, LBNL: Fundamental Studies of Lithium-Sulfur Cell Chemistry
ES225; Guoying Chen, LBNL: Design and Synthesis of Advanced High-Energy Cathode Materials
ES091; Kristin Persson, LBNL: Predicting and Understanding Novel Electrode Materials From First-Principles
ES071; Yet-Ming Chiang, Massachusetts Institute of Technology: Design and Scalable Assembly of High Density Low Tortuosity Electrodes
ES054; Gerbrand Ceder, Massachusetts Institute of Technology: First Principles Calculations of Existing and Novel Electrode Materials
ES145; Chunmei Ban, NREL: Atomic Layer Deposition for Stabilization of Silicon Anodes
ES184; Andrew Kercher, ORNL: Lithium Bearing Mixed Polyanion Glasses as Cathode Materials
ES106; Jagjit Nanda, ORNL: Studies on High Capacity Cathodes for Advanced Lithium-ion Systems
ES147; Donghai Wang, Pennsylvania State University: Synthesis and Characterization of Polymer-Coated Layered SiO _x -Graphene Nanocomposite Anodes
ES144; Jason Zhang, PNNL: Development of Silicon-based High Capacity Anodes
ES056; Jason Zhang, PNNL: Development of High-Energy Cathode Materials
ES226; Chongmin Wang, PNNL: Microscopy Investigation on the Fading Mechanism of Electrode Materials
ES148; Yi Cui, Stanford University: Wiring up Silicon Nanoparticles for High Performance Lithium-ion Battery Anodes
ES214; Perla Balbuena, Texas A&M: First Principles Modeling of SEI Formation on Bare and Surface/Additive Modified Silicon Anodes
ES055; Clare Grey, U. of Cambridge: First Principles Calculations and NMR Spectroscopy of Electrode Materials
ES061; Prashant Kumta, University of Pittsburgh: Nanoscale Heterostructures and Thermoplastic Resin Binders: Novel Li-ion Anode Systems
ES051; Arumugam Manthiram, U of Texas at Austin : HIGH-CAPACITY POLYANION CATHODES
ES215; G. Somorajai, UC Berkeley: Analysis of Film Formation Chemistry on Silicon Anodes by Advanced In Situ and Operando Vibrational Spectroscopy
ES216; Shirley Meng, UC San Diego: Optimization of Ion Transport in High-Energy Composite Cathodes
ES067; Brett Lucht, U of Rhode Island: Development of Electrolytes for Lithium-ion Batteries
ES217; Ron Hendershot, Daikin America: Daikin Advanced Lithium Ion Battery Technology – High Voltage Electrolyte
ES218; John Zhang, ANL: Fluorinated Electrolyte for 5-V Li-Ion Chemistry
ES219; Dee Strand, Wildcat Discovery: Novel Non-Carbonate Based Electrolytes for Silicon Anodes
Advanced Power Electronics
APE037; Gilbert Moreno, NREL: Two-Phase Cooling of Power Electronics
APE063; Doug DeVoto, NREL: Performance and Reliability of Bonded Interfaces for High-Temperature Packaging
APE006; Tim Burress, ORNL: Benchmarking EV and HEV Technologies
APE026; Tam Duong, NIST: Electro-thermal-mechanical Simulation and Reliability for Plug-in Vehicle Converters and Inverters
Safety, Codes & Standards
SCS023; Igor Pavlovsky, Applied Nanotech : Hydrogen Leak Detector for Hydrogen Dispenser



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Tuesday Poster Map

EXHIBIT LEVEL

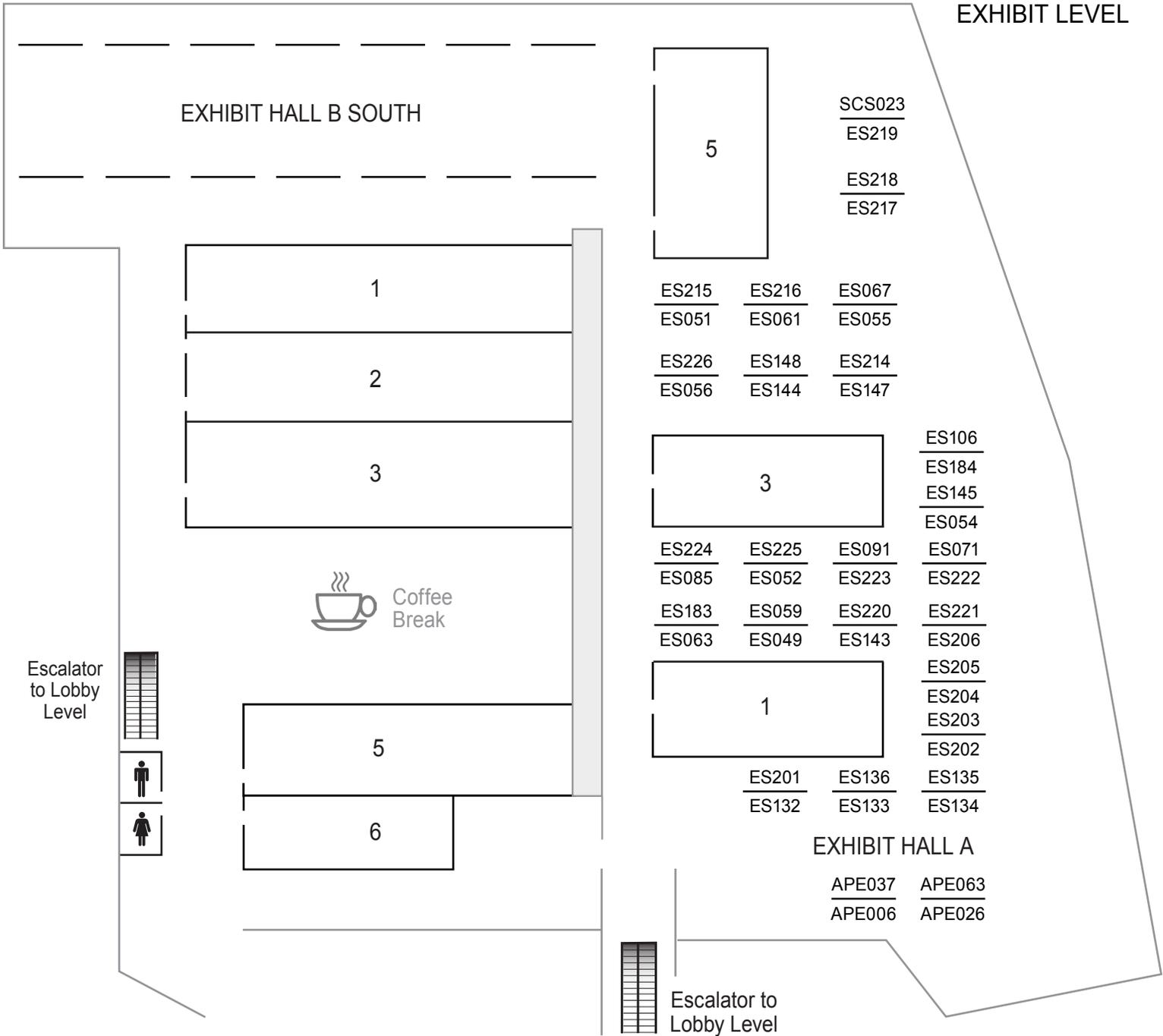


EXHIBIT HALL B SOUTH

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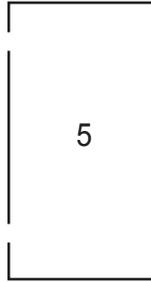
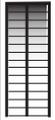
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Escalator to Lobby Level



SCS023

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ES218

ES217

ES215

ES051

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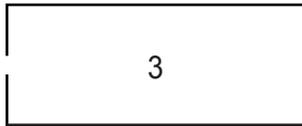
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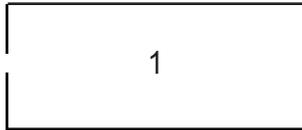
ES049

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EXHIBIT HALL A

APE037

APE006

APE063

APE026



Escalator to Lobby Level

Wednesday, June 18 - Oral Presentations

Salon	Delaware A	Roosevelt 3	Maryland ABC
8:15 AM			ES014; Peter Faguy, DOE: Overview and Progress of Applied Battery Research (ABR) Activities
8:30 AM	ACE075; Sibendu Som, ANL: Advancement in Fuel Spray and Combustion Modeling for Compression Ignition Engine Applications	APE036; Doug DeVoto, NREL: Reliability of Electrical Interconnects	ES208; Khalil Amine, ANL: New High-Energy Electrochemical Couple for Automotive Applications
9:00 AM	ACE010; Christopher Powell, ANL: Fuel Injection and Spray Research Using X-Ray Diagnostics	APE019; Scot Wayne, NREL: High-Temperature Air-Cooled Power Electronics Thermal Design	ES209; Jane Rempel, TIAX: High Energy High Power Battery Exceeding PHEV-40 Requirements
9:30 AM	ACE011; Steve Ciatti, ANL: Use of Low Cetane Fuel to Enable Low Temperature Combustion	APE015; Iver Anderson, Ames: Permanent Magnet Development for Automotive Traction Motors	ES210; Jagat Singh, 3M: Advanced High Energy Li-ion Cell for PHEV and EV Applications
10:00 AM	ACE054; Scott Goldsborough, ANL: Collaborative Combustion Research with BES	APE045; Ayman El-Refaie, General Electric Global: Alternative High-Performance Motors with Non-Rare Earth Materials	ES211; Subramanian Venkatachala, Envia: High Energy Lithium Batteries for PHEV Applications
10:30 AM	BREAK	BREAK	BREAK
11:00 AM	ACE084; Thomas Wallner, ANL: High Efficiency GDI Engine Research, with Emphasis on Ignition Systems	APE044; Jon Lutz, UQM Technologies, Inc.: Unique Lanthide-Free Motor Construction	ES212; Donghai Wang, Penn State: High Energy, Long Cycle Life Lithium-ion Batteries for PHEV Applications
11:30 AM	ACE015; James Szybist, ORNL: Stretch Efficiency for Combustion Engines: Exploiting New Combustion Regimes	APE062; Tim Burress, ORNL: Scalable Non-Rare Earth Motor Development	ES213; Keith Kepler, Farasis: High Energy Density Li-ion Cells for EV's Based on Novel, High Voltage Cathode Material Systems
12:00 PM	ACE016; Scott Curran, ORNL: High Efficiency Clean Combustion in Multi-Cylinder Light-Duty Engines	APE064; Kevin Bennion, NREL: Convective Cooling and Passive Stack Improvements in Motors	ES168; Kris Pupek, ANL: Process Development and Scale up of Advanced Electrolyte Materials
12:30 LUNCH	1:00 PM - Patrick Davis: Vehicle Technologies Office Awards Presentations		
1:45 PM	ACE017; Kevin Edwards, ORNL: Accelerating Predictive Simulation of IC Engines with High Performance Computing	VAN009; Stacy Davis, ORNL: Transportation Energy Data Book, Vehicle Technologies Market Report, and VT Fact of the Week	ES207; Claus Daniel, ORNL: Manufacturability Study and Scale-Up for Large Format Lithium Ion Batteries
2:15 PM	ACE090; Brian Kaul, ORNL: High-Dilution Stoichiometric Gasoline Direct-Injection (SGDI) Combustion Control Development	VAN011; Joann Zhou, ANL: E-drive Vehicle Sales Analyses	ES164; Jianlin Li, ORNL: Overcoming Processing Cost Barriers of High-Performance Lithium-Ion Battery Electrodes
2:45 PM	ACE077; Bill Partridge, ORNL: Cummins-ORNL/FEERC Combustion CRADA: Characterization & Reduction of Combustion Variations	VAN008; Aymeric Rousseau, ANL: Evaluation of VTO Benefits Using Large Scale Simulation	ES165; David Wood, ORNL: Roll-to-Roll Electrode Processing NDE for Advanced Lithium Secondary Batteries
3:15 PM	ACE052; Todd Toops, ORNL: Neutron Imaging of Advanced Engine Technologies	VAN012; Alicia Birky, TAE: Modeling for Market Analysis: HTEB, TRUCK, and LVChoice	ES166; Ira Bloom, ANL: Post-Test Analysis of Lithium-Ion Battery Materials at Argonne National Laboratory
3:45 PM	BREAK	BREAK	BREAK
4:15 PM	ACE022; Josh Pihl, ORNL: Joint Development and Coordination of Emissions Control Data and Models (CLEERS Analysis and Coordination)	VAN006; Joann Zhou, ANL: Development and Update of Long-Term Energy and GHG Emission Macroeconomic Accounting Tool	ES036; Chris Orendorff, SNL: Abuse Tolerance Improvements
4:45 PM	ACE023; George Muntean, PNNL: CLEERS Aftertreatment Modeling and Analysis	VAN010; Changzheng Liu, ORNL: Reassessing the Outlook of US Oil Dependence Using Oil Security Metrics Model	ES030; Andrew Jansen, ANL : Cell Analysis, Modeling, and Prototyping (CAMP) Facility Research Activities
5:15 PM	ACE078; Ayman Karim, PNNL: Investigation of Mixed Oxide Catalysts for NO Oxidation	VAN013; Changzheng Liu, ORNL: Transportation Energy Transition Modeling and Analysis:the LAVE-Trans Model	ES167; Greg Krumdick, ANL: Process Development and Scale-up of Advanced Cathode Materials
5:45 PM			



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Wednesday, June 18 - Oral Presentations

Salon	Delaware B	Washington 1	Washington 3
8:30 AM	LM056; Curt Lavender, PNNL: Non-Rare Earth High-Performance Wrought Magnesium Alloys	VSS125; Aymeric Rousseau, ANL: Trip Prediction and Route-Based Vehicle Energy Management	SCS011; Katrina Groth, SNL: Hydrogen behavior and Quantitative Risk Assessment
9:00 AM	LM076; Kinga Unocic, ORNL: Understanding Protective Film Formation by Magnesium Alloys in Automotive Applications	VSS126; Jeff Gonder, NREL: Internal Combustion Engine Energy Retention (ICEER)	SCS002; Robert Burgess, NREL: Component Standard Research & Development
9:30 AM	LM035; Steve Derezinski, INFINIUM, Inc.: Scale-Up of Magnesium Production by Fully Stabilized Zirconia Electrolysis	VSS127; Aymeric Rousseau, ANL: Vehicle Level Model and Control Development and Validation Under Various Thermal Conditions	SCS005; Chris San Marchi, SNL: R&D for Safety, Codes and Standards: Materials and Components Compatibility
10:00 AM	LM057; Xin Sun, PNNL: Mechanistic-Based Ductility Prediction for Complex Mg Castings	VSS121; Paul Chambon, ORNL: APEEM Components Analysis and Evaluation	SCS007; Tommy Rockward, LANL: Hydrogen Fuel Quality
10:30 AM	BREAK	BREAK	BREAK
11:00 AM	LM077; Steve Logan, USAMP: Mechanistic-based Ductility Prediction for Complex Mg Castings	VSS128; Aymeric Rousseau, ANL: Impact of Advanced Technologies on Engine Targets	SCS021; Bill Buttner, NREL: NREL Hydrogen Sensor Testing Laboratory
11:30 AM	LM080; Lou Hector, USAMP: Integrated Computational Materials Engineering Approach to Development of Lightweight 3GAHSS Vehicle Assembly	VSS129; Jeff Gonder, NREL: In-Vehicle Evaluation of Lower-Energy Energy Storage System (LEESS) Devices	SCS004; Eric Brosha, LANL: Hydrogen Safety, Codes and Standards: Sensors
12:00 PM	LM060; Mark Smith, PNNL: Aerodynamic Lightweight Cab Structure Components	VSS033; Barney Carlson, INL: Electric Drive and Advanced Battery and Components Testbed (EDAB)	SCS019; Nick Barilo, PNNL: Hydrogen Safety Panel and Hydrogen Safety Knowledge Tools
12:30 LUNCH	1:00 PM - Patrick Davis: Vehicle Technologies Office Awards Presentations		
1:45 PM	LM062; Dave Warren, ORNL: Improving Fatigue Performance of AHSS Welds	VSS103; P.T. Jones, ORNL: Wireless Charging	SCS001; Carl Rivkin, NREL: National Codes and Standards Deployment and Outreach
2:15 PM	LM054; Jian Chen, ORNL: On-Line Weld NDE with IR Thermography	VSS102; Allan Lewis, Hyundai: High Efficiency, Low EMI and Positioning Tolerant Wireless Charging of EVs	SCS015; Nick Barilo, PNNL: Hydrogen Emergency Response Training for First Responders
2:45 PM	LM075; Yuri Hovanski, PNNL: High Speed Joining of Dissimilar Alloy Aluminum Tailor Welded Blanks	VSS096; Barney Carlson, INL: INL Testing of Wireless Charging Systems	SCS017; Gregg Holtmeier, LLNL: Hands-on Hydrogen Safety Training
3:15 PM	LM086; Glenn Daehn, Ohio State University: Collision Welding of Dissimilar Materials by Vaporizing Foil Actuator	VSS130; Jeff Gonder, NREL: Advanced Wireless Power Transfer and Infrastructure Analysis	SCS020; Jay Keller, Consultant: International Partnership for Hydrogen & Fuel Cells in the Economy - Regulations Codes and Standards
3:45 PM	BREAK	BREAK	BREAK
4:15 PM	LM087; Mahmood Haq, Michigan State University: Active, Tailorable Adhesives for Dissimilar Material Bonding, Repair and Assembly	VSS131; Matthew Shirk, INL: DC Fast Charging Effects on Battery Life and EVSE Efficiency and Security Testing	SCS022; Karen Hall, Fuel Cell & Hydrogen Energy Association: Fuel Cell & Hydrogen Energy Association Codes and Standards Support
4:45 PM	LM074; Elizabeth Stephens, PNNL: SPR Process Simulation, Analyses, and Development for Magnesium Joints	VSS114; Anthony Markel, NREL: PEV Integration with Renewables	
5:15 PM		VSS132; Wenhau Yu, ANL: Thermal Control of Power Electronics of Electric Vehicles with Small Channel Coolant Boiling	
5:45 PM		VSS112; Elena Timofeeva, ANL: Development of Nanofluids for Cooling Power Electronics for Hybrid Electric Vehicles	



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Wednesday, June 18 - Oral Presentations

Salon	Roosevelt 1	Washington 5	Virginia ABC
8:30 AM	PD102; Whitney Colella, Strategic Analysis, Inc.: Hydrogen Pathways Analysis for Polymer Electrolyte Membrane (PEM) Electrolysis	ST004; Don Anton, SRNL: Hydrogen Storage Engineering Center of Excellence	FC107; Piotr Zelenay, LANL: Non-Precious Metal Fuel Cell Cathodes: Catalyst Development & Electrode Structure Design
9:00 AM	PD091; Ambal Jayaraman, TDA Research: Bio-Fueled Solid Oxide Fuel Cells		FC104; Andrew Steinbach, 3M: High Performance, Durable, Low Cost Membrane Electrode Assemblies for Transportation Applications
9:30 AM	PD103; Hui Xu, Giner Electrochemical Systems: High-Performance, Long-Lifetime Catalysts for Proton Exchange Membrane Electrolysis	ST044; Bruce Hardy, SRNL: SRNL Technical Work Scope for the Hydrogen Storage Engineering Center of Excellence: Design and Testing of Adsorbent Storage	FC106; Deborah Myers, ANL: Rationally Designed Catalyst Layers for PEMFC Performance Optimization
10:00 AM	PD094; Katherine Ayers, Proton OnSite: Economical Production of Hydrogen Through Development of Novel, High Efficiency Electrocatalysts for Alkaline Membrane Electrolysis	ST010; Mike Veenstra, Ford Motor: Ford/BASF-SE/UM Activities in Support of the Hydrogen Storage Engineering Center of Excellence	FC108; Bryan Pivovar, NREL: Advanced Ionomers & MEAs for Alkaline Membrane Fuel Cells
10:30 AM	BREAK	BREAK	BREAK
11:00 AM	PD098; Katherine Ayers, Proton OnSite: Low-Noble-Metal-Content Catalysts/Electrodes for Hydrogen Production by Water Electrolysis	ST046; Kevin Drost, Oregon State U: Microscale Enhancement of Heat and Mass Transfer for Hydrogen Energy Storage	FC091; Piotr Zelenay, LANL: Advanced Materials and Concepts for Portable Power Fuel Cells
11:30 AM	PD031; Kevin Harrison, NREL: Renewable Electrolysis Integrated System Development and Testing	ST047; Norman Newhouse, Hexagon Lincoln: Development of Improved Composite Pressure Vessels for Hydrogen Storage	FC102; Earl Wagener, Tetramer Technologies, LLC: New High Performance Water Vapor Membranes To Improve Fuel Cell Balance of Plant Efficiency and Lower Costs
12:00 PM	PD035; Todd Deutsch, NREL: Semiconductor Materials for Photoelectrolysis	ST006; Bart van Hassel, UTRC: Advancement of Systems Designs and Key Engineering Technologies for Materials Based Hydrogen Storage	FC103; Dale Stretch, Eaton Corp.: Roots Air Management System with Integrated Expander
12:30 LUNCH	1:00 PM - Patrick Davis: Vehicle Technologies Office Awards Presentations		
1:45 PM	PD058; Tadashi Ogitsu, LLNL/NREL: Characterization and Optimization of Photoelectrode Surfaces for Solar-to-Chemical Fuel Conversion	ST007; Troy Semelsberger, LANL: Chemical Hydrogen Rate Modeling, Validation, and System Demonstration	FC013; Rod Borup, LANL: Durability Improvements Through Degradation Mechanism Studies
2:15 PM	BES001; Neal Armstrong, University of Arizona: "Electrochemically Wired" Dye-Modified Dendrimers and Semiconductor Nanoparticles in Sol-Gel Thin Films: Toward Vectorial Electron Transport in Hybrid	ST005; Kriston Brooks, PNNL: Systems Engineering of Chemical Hydrogen, Pressure Vessel, and Balance of Plant for On-Board Hydrogen Storage	FC016; Rangachary Mukundan, LANL: Accelerated Testing Validation
2:45 PM	BES002; Alexey Akimov, University of Rochester: Real-Time Atomistic Simulation of Light Harvesting and Charge Transport for Solar Hydrogen Production	ST008; Matthew Thornton, NREL: System Design, Analysis, and Modeling for Hydrogen Storage Systems	FC026; Adam Weber, LBNL: Fuel-Cell Fundamentals at Low and Subzero Temperatures
3:15 PM	BES003; Nathan Neale, National Renewable Energy Laboratory: Solar Photoconversion in Molecular, Nanoscale and Semiconductor Systems - Interfacial Photochemistry and Catalysis	MN008; Patrick Lam, Quantum Fuel Systems Technologies Worldwide, Inc.: Development of Advanced Manufacturing Technologies for Low Cost Hydrogen Storage Vessels	FC048; Huyen Dinh, NREL: Effect of System Contaminants on PEMFC Performance and Durability
3:45 PM	BREAK	BREAK	BREAK
4:15 PM	BES004; David Tiede, Argonne National Laboratory: Hierarchical Photosynthetic Systems	MN001; Michael Ullsh, NREL: Fuel Cell MEA Manufacturing R&D	FC065; Jean St-Pierre, Hawaii Natural Energy Institute: The Effect of Airborne Contaminants on Fuel Cell Performance and Durability
4:45 PM	BES005; Anne Jones, Arizona State: Utilization of Protein Film Electrochemistry to Characterize the Mechanisms Imparting Aerotolerance and Bidirectionality in Soluble,	MN004; Colin Busby, W.L. Gore: Manufacturing of Low-Cost, Durable Membrane Electrode Assemblies Engineered for Rapid Conditioning	FC096; Patricia Irving, InnovaTek, Inc.: Power Generation from an Integrated Biomass Reformer and Solid Oxide Fuel Cell (SBIR Phase III Xlerator Program)
5:15 PM	BES006; Michael Adams, University of Georgia: Hypothermophilic Multiprotein Complexes and Pathways for Energy Conservation and Catalysis		FC111; Shyam Kocha (NREL), Voya Stamenkovic (ANL) & Debbie Myers (ANL): Best Practices and Benchmark Activities for ORR Measurements by the Rotating Disk Electrode Technique
5:45 PM	BES007; Paul King, National Renewable Energy Laboratory: Photobiological and Photobiohybrid Solar Fuels: Photobiohybrid Project		



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Wednesday, June 18 - Poster Presentations

Exhibit Halls A and B, 6:30-8:30 PM

Fuel Cells
FC036; Cortney Mittelsteadt, Giner Electrochemical Systems, LLC: Dimensionally Stable High Performance Membranes
FC040; Ludwig Lipp, FuelCell Energy, Inc.: High Temperature Membrane with Humidification-Independent Cluster Structure
FC052; Tommy Rockward, LANL: Technical Assistance to Developers
FC054; Cortney Mittelsteadt, Giner Electrochemical Systems, LLC: Transport in PEMFCs
FC081; Jennifer Kurtz, NREL: Fuel Cell Technology Status Cost & Price Status
FC084; John Turner, NREL: WO3 and HPA Based Systems for Durable Pt Catalysts in PEMFC Cathodes
FC092; Wenbin Gu, GM: Investigation of Micro- and Macro-Scale Transport Processes for Improved Fuel Cell Performance
FC105; C.H. Wang, TreadStone Technologies, Inc.: Novel Structured Metal Bipolar Plates for Low Cost Manufacturing
FC112; Yu Seung Kim, LANL: Resonance-Stabilized Anion Exchange Polymer Electrolytes
FC113; Di-Jia Liu, ANL: Non-PGM Cathode Catalysts using ZIF-based Precursors with Nanonetwork Architecture
FC049; Silvia Wessel, Ballard: Open-Source FCPEM-Performance and Durability Model (FC-APOLLO): Consideration of Membrane Properties on Cathode
MT015; Genevieve Saur, NREL: FCTAC Web Portal Tool Development
ARPA-E1; Singaravelu Elangovan, Ceramtec: Intermediate Temperature Proton Conducting Fuel Cells for Transportation Applications
ARPA-E2; Katherine Ayers, Proton OnSite: H2 Production via Anion Exchange Membrane Electrolysis
ARPA-E3; Yushan Yan, U of Delaware: Polymer Anion Exchange Membrane Based Electrochemical Energy Systems: Fuel Cells, Electrolyzers and Flow Batteries
ARPA-E4; Mike Hickner, Penn State: Anion Exchange Membrane Stability
ARPA-E5; Yu Seung Kim, LANL: Alkaline Fuel Cell Membrane/Catalyst
ARPA-E6; Sanjeev Mukerjee, Northeastern Univ: Anion Exchange Membrane Electrolyzer Catalyst
ARPA-E7; Chinbay Fan, GTI: Methane to Methanol Fuel: A Low Temperature Process
ARPA-E8; Michael Perry, UTRC: Breakthrough Flow Battery Cell Stack
ARPA-E9; Mike Aziz, Harvard: Small Organic Molecule Based Flow Battery for Grid Storage
ARPA-E10; Sri Narayan, USC: Fe-Air and All Organic Flow Batteries
Hydrogen Storage
ST034; Jim Wegrzyn, BNL: Aluminum Hydride: the Organometallic Approach
ST028; Christopher Wolverton, Northwestern U: Design of Novel Multi-Component Metal Hydride-Based Mixtures for Hydrogen Storage
ST048; Andrew Goudy, Delaware State U: Hydrogen Storage Materials for Fuel Cell Powered Vehicles
ST067; Terry Udovic, NIST: Neutron Characterization in Support of the DOE Hydrogen Storage Sub-Program
ST009; Mei Cai, General Motors: Testing and Modeling of a Cryogenic Hydrogen Storage System with a Helical Coil Electric Heater
ST095; Adrian Narvaez, Hawaii Hydrogen cArriers, LLC: Low Cost, Metal Hydride Based Hydrogen Storage System for Forklift Applications (Phase II)
ST105; Dongsheng Mao, Applied Nanotech, Inc.: Ultra Lightweight High Pressure Hydrogen Fuel Tanks Reinforced with Carbon Nanotubes
ST110; Andrea Haight, Composite Technology Development: Optimizing the Cost and Performance of Composite Cylinders for H2 Storage using a Graded Construction
ST112; Scott McWhorter, SRNL: Load-Sharing Polymeric Liner for Hydrogen Storage Composite Tanks
Vehicle Technologies Analysis
VAN003; Mark Singer, NREL: Consumer Vehicle Technology Data
VAN004; Aaron Brooker, NREL: Unified Modeling, Simulation, and Market Implications: FASTSim and ADOPT
VAN002; Michael Wang, ANL: Emissions Modeling: GREET Life Cycle Analysis
VAN005; Zhenhong Lin, ORNL: Consumer-Segmented Vehicle Choice Modeling: the MA3T Model
VAN014; Dawn Manley, SNL: Parametric Vehicle Choice Modeling: ParaChoice
VAN001; Tom Stephens, ANL: Impact Analysis: VTO Baseline and Scenario (BaSce) Activities
VAN015; Michael Nicholas, UCD: PEV Consumer Behavior in Practice (PCBIP)



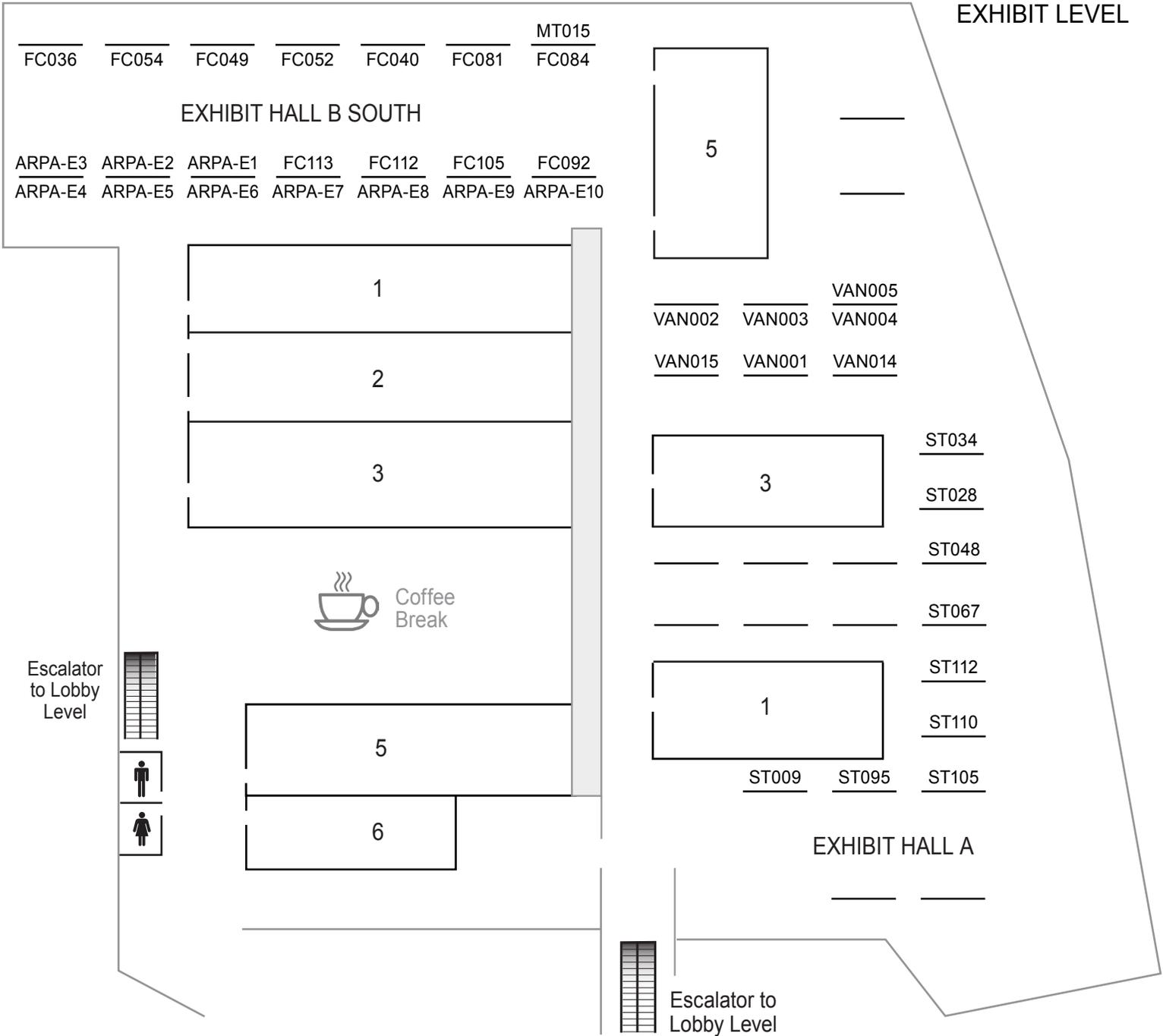
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Wednesday Poster Map

EXHIBIT LEVEL



Thursday, June 19 - Oral Presentations

Salon	Delaware A	Roosevelt 3	Maryland ABC
8:15 AM			ES227; Peter Faguy, DOE: The Voltage Fade Project: a New Paradigm for Applied Battery Research
8:30 AM	ACE026; Chuck Peden, PNNL: Enhanced High and Low Temperature Performance of NOx Reduction Materials	FT008; James Szybist, ORNL: Gasoline-Like Fuel Effects on Advanced Combustion Regimes	ES190; Christopher Johnson, ANL: Synthetic Approaches to Correcting Voltage Fade in LMR-NMC Cathodes
9:00 AM	ACE027; Chuck Peden, PNNL: Thermally Stable Ultra-Low Temperature Oxidation Catalysts	FT015; Rolf Reitz, WERC: Demonstration/Development of Reactivity Controlled Compression Ignition (RCCI) Combustion for High Efficiency, Low Emissions Vehicle Applications	ES194; Jason Croy, ANL: Understanding Structural Changes in LMR-NMC Materials
9:30 AM	ACE056; Mark Stewart, PNNL: Fuel-Neutral Studies of Particulate Matter Transport Emissions	FT002; Brad Zigler, NREL: Advanced Combustion and Fuels	ES187; Baris Key, ANL: Solid State NMR Studies of Li-Rich NMC Cathodes: Investigating Structure Change and Its Effect
10:00 AM	ACE033; Jim Parks, ORNL: Emissions Control for Lean Gasoline Engines	FT016; John Heywood, MIT: High Compression Ratio Turbo Gasoline Engine Operation Using Alcohol Enhancement	ES193; Hakim Iddir, ANL: Atomistic Models of LMRNMC Materials
10:30 AM	BREAK	BREAK	BREAK
11:00 AM	ACE085; Jim Parks, ORNL: Low Temperature Emission Control to Enable Fuel-Efficient Engine Commercialization	FT004; Chuck Mueller, SNL: Fuel Effects on Mixing-Controlled Combustion Strategies for High-Efficiency Clean-Combustion Engines	ES188; Daniel Abraham, ANL: Characterization of Voltage Fade in Lithium-ion Cells with Layered Oxides
11:30 AM	ACE032; Bill Partridge, ORNL: Cummins/ORNL-FEERC CRADA: NOx Control & Measurement Technology for Heavy-Duty Diesel Engines	FT003; Matt Ratcliff, NREL: Performance of Biofuels and Biofuel Blends	ES189; Dennis Dees, ANL: Electrochemical Modeling of LMR-NMC Materials and Electrodes
12:00 PM	ACE024; Hee Je Seong, ANL: Particulate Emissions Control by Advanced Filtration Systems for GDI Engines	FT017; Eric Kurtz, Ford: Fuel Properties to Enable Lifted-Flame Combustion	ES161; Anthony Burrell, ANL: Voltage Fade, an ABR Deep Dive Project: Status and Outcomes
12:30 PM	LUNCH	LUNCH	LUNCH
1:45 PM	ACE061; Michael Ruth, Cummins: ATP-LD; Cummins Next Generation Tier 2 Bin 2 Diesel Engine	FT006; Magnus Sjoberg, SNL: Advanced Lean-Burn DI Spark Ignition Fuels Research	Hydrogen Infrastructure; Morry Markowitz, FCHEA: H2 USA
2:15 PM	ACE065; Corey Weaver, Ford Motor Company: Advanced Gasoline Turbocharged Direct Injection (GTDI) Engine Development	FT007; Todd Toops, ORNL: Fuel Effects on Emissions Control Technologies	
2:45 PM	ACE066; Hakan Yilmaz, Robert Bosch: Advanced Combustion Concepts - Enabling Systems and Solutions (ACCESS) for High Efficiency Light Duty Vehicles	FT018; Ali Erdemir, ANL: Advanced Nanolubricants for Improved Energy Efficiency and Reduced Emissions in Engines	Hydrogen Infrastructure; Hanno Butsch, NOW GmbH: Hydrogen Refueling Station Infrastructure in Germany and Europe
3:15 PM	ACE062; Ron Reese, Chrysler: A MultiAir / MultiFuel Approach to Enhancing Engine System Efficiency	FT019; Victor Wong, MIT: Lubricant Formulations to Enhance Engine Efficiency in Modern Internal Combustion Engines	Hydrogen Infrastructure; Shigenobu Watanabe, NEDO: Hydrogen Infrastructure in Japan
3:45 PM	BREAK	BREAK	BREAK
4:15 PM	ACE079; Rangachary Mukundan, LANL: Robust Nitrogen Oxide/Ammonia Sensors for Vehicle On-board Emissions Control	FT020; Robert Zdrodowski, Ford: Development of Modified Polyalkylene Glycol High VI High Fuel Efficient Lubricant for Light-Duty Vehicle Applications	
4:45 PM	ACE091; Claus Schnabel, Robert Bosch: Intake Air Oxygen Sensor	FT014; Jun Qu, ORNL: Ionic Liquids as Anti-Wear Additives for Next-Generation Low-Viscosity Fuel-Efficient Engine Lubricants	
5:15 PM	ACE089; Alexander Sappok, Filter Sensing Technologies, Inc.: Development of Radio Frequency Diesel Particulate Filter Sensor and Controls for Advanced Low-Pressure Drop Systems to Reduce Engine Fuel Consumption		
5:45 PM			



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Thursday, June 19 - Oral Presentations

Salon	Delaware B	Washington 1	Washington 3
8:30 AM	LM082; Xin Sun, PNNL: Development of 3rd Generation Advanced High Strength Steels (AHSS) with an Integrated Experimental and Simulation Approach	VSS058; Oyelayo Ajayi, ANL: Development of High Power Density Driveline for Vehicles	TI035; Damian Breen, Bay Area Air Quality Management District: California Fleets and Workplace Alternative Fuels Project
9:00 AM	LM073; Thomas Watkins, ORNL: Residual Stress of Bimetallic Joints and Characterization	VSS006; Kambiz Salari, LLNL: DOE's Effort to Improve Heavy Vehicle Fuel Efficiency through Improved Aerodynamics	TI036; Sam Spofforth, Clean Fuels Ohio: Clean Fuels Ohio's Fast Track to AFV Adoption in Ohio
9:30 AM	LM079; Rich Davies, PNNL: Enhanced Room-Temperature Formability in High-Strength Aluminum Alloys through Pulse-Pressure Forming	ARRAVT072; Robin Mackie, Smith Electric Vehicles: Smith Electric Vehicles: Advanced Vehicle Electrification + Transportation Sector Electrification	TI037; Ron Flowers, Greater Washington Region Clean Cities Coalition: Advancing Alternative Fuel Markets Adoption and Growth
10:00 AM	LM078; Xin Sun, PNNL: Aluminum Formability Extension through Superior Blank Processing		TI038; Sandy Fazeli, National Association of State Energy Officials: Unlocking Private Sector Financing for Alternative Fuel Vehicles and Fueling Infrastructure
10:30 AM	BREAK	BREAK	BREAK
11:00 AM	ACE080; Vladimir Jovicic, GenTherm: Thermoelectric Waste Heat Recovery Program for Passenger Vehicles	ARRAVT083; Jeff Cox, SCAQMD: SCAQMD: Plug-In Hybrid Electric Medium-Duty Commercial Fleet Demonstration and Evaluation	TI039; Robert Graff, Delaware Valley Regional Planning Commission: Pennsylvania Partnership for Promoting Natural Gas Vehicles
11:30 AM	ACE081; Jim Salvador, General Motors: Cost-Competitive Advanced Thermoelectric Generators for Direct Conversion of Vehicle Waste Heat into Useful Electrical Power	VSS115; Brian Choe, SCAQMD: Zero-Emission Heavy-Duty Drayage Truck Demonstration	TI040; Adriane Jaynes, Tulsa Area Clean Cities: I-40 Collaboration
12:00 PM	ACE082; Martin Cleary, GMZ Energy Inc.: Nanostructured High-Temperature Bulk Thermoelectric Energy Conversion for Efficient Automotive Waste Heat Recovery	VSS116; Allison Carr, Houston-Galveston Area Council: Hydrogen Fuel-Cell Electric Hybrid Truck & Zero Emission Delivery Vehicle Deployment	TI041; Lisa Thurstin, American Lung Association of the Upper Midwest: Accelerating Alternatives for Minnesota Drivers
12:30 PM	LUNCH	LUNCH	LUNCH
1:45 PM	PM051; Hong Wang, ORNL: Design Optimization of Piezoceramic Multilayer Actuators for Heavy Duty Diesel Engine Fuel Injectors	VSS048; Zhiming Gao, ORNL: Advanced HD Engine Systems and Emissions Control Modeling and Analysis	TI042; Kelly Gilbert, Metropolitan Energy Center, Inc.: Mid-America Collaborative for Alternative Fuels Implementation
2:15 PM	PM052; Jun Qu, ORNL: Friction Reduction through Surface Modification (Agreement ID:23284) Project ID:18518	VSS133; Dean Deter, ORNL: Cummins MD & HD Accessory Hybridization CRADA	TI043; Josh Rego, Clean Energy Coalition: Michigan Fuel Forward
2:45 PM	PM048; Glenn Grant, PNNL: Tailored Materials for Improved Internal Combustion Engine Efficiency	ARRAVT080; Derek Rotz, DTNA: Class 8 Truck Freight Efficiency Improvement Project	TI044; Ted Barnes, Institute of Gas Technology: Lake Michigan Corridor Alternative Fuel Implementation Initiative
3:15 PM	PM053; G. Muralidharan, ORNL: High Temperature Materials for High Efficiency Engines	ARRAVT081; Ken Damon, Peterbilt: Technology and System Level Demonstration of Highly Efficient and Clean, Diesel Powered Class 8 Trucks	TI045; Jennifer Puser, Greater Portland Council of Governments: Removing Barriers, Implementing Policies and Advancing Alternative Fuels Markets in New England
3:45 PM	BREAK	BREAK	BREAK
4:15 PM	PM004; Glenn Grant, PNNL: Novel Manufacturing Technologies for High Power Induction and Permanent Magnet Electric Motors	VSS081; Pascal Amar, Volvo Trucks: Development and Demonstration of a Fuel-Efficient Class 8 Highway Vehicle	TI046; Maria Redmond, Wisconsin Department of Administration: Alternative Fuel Market Development Program - Forwarding Wisconsin's Fuel Choice
4:45 PM	PM054; Andrew Wereszczak, ORNL: Enabling Materials for High Temperature Power Electronics (Agreement ID:26461) Project	VSS075; Jason Lustbader, NREL: CoolCab Test and Evaluation and CoolCalc HVAC Tool Development	TI047; Cabell Hodge, Colorado Energy Office: Refuel Colorado
5:15 PM	PM038; Phil Maziasz, ORNL: Materials for Advanced Turbocharger Designs (Agreement ID:17257) Project ID:18518	VSS135; John Schneider, Halla Visteon: Advanced Climate Systems for EV Extended Range	TI048; Colin Messer, New Mexico Department of Energy, Minerals & Natural Resources: Advancing New Mexico's Alternative Fuels
5:45 PM		VSS136; Timothy Craig, Delphi Automotive: Electric PCM Assisted Thermal Heating System	



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Thursday, June 19 - Oral Presentations

Salon	Roosevelt 1	Washington 5	Virginia ABC
8:30 AM	PD096; Hector Colon-Mercado, SRNL: Electrolyzer Component Development for the HyS Thermochemical Cycle		FC020; Karren More, ORNL: Characterization of Fuel Cell Materials
9:00 AM	PD081; Ivan Ermanoski, SNL: Solar Hydrogen Production with a Metal Oxide Based Thermochemical Cycle		FC021; David Jacobson, NIST: Neutron Imaging Study of the Water Transport in Operating Fuel Cells
9:30 AM	PD028; Chris Muhich, U of Colorado: Solarthermal Redox-based Water Splitting Cycles	VSS087; Rajeev Verma, Eaton: Look-Ahead Driver Feedback and Powertrain Management	FC017; Rajesh Ahluwalia, ANL: Fuel Cells Systems Analysis
10:00 AM	PD095; Pin-Ching Maness, NREL: Improving Cyanobacterial O ₂ -Tolerance using CBS Hydrogenase for H ₂ Production	VSS086; Kanok Boriboonsomsin, University of California at Riverside: Next Generation Environmentally Friendly Driving Feedback Systems Research and Development	FC083; Genevieve Saur, NREL: Enlarging Potential National Penetration for Stationary Fuel Cells Through System Design Optimization
10:30 AM	BREAK	BREAK	BREAK
11:00 AM	PD037; Maria Ghirardi, NREL: Biological Systems for Hydrogen Photoproduction	VSS083; Timothy Donley, Cooper Tire: Improving Vehicle Fuel Efficiency Through Tire Design, Materials, and Reduced Weight	FC018; Brian James, Strategic Analysis, Inc.: Fuel Cell Transportation Cost Analysis
11:30 AM	PD036; Tasios Melis, UC Berkeley: Maximizing Light Utilization Efficiency and Hydrogen Production in Microalgal Cultures	VSS084; Peter Votruba-Drzal, PPG: A Materials Approach to Fuel-Efficient Tires	FC097; Fritz Eubanks, Battelle: Stationary and Emerging Market Fuel Cell System Cost Analysis--Auxiliary Power Units
12:00 PM	PD038; Pin-Ching Maness, NREL: Fermentation and Electrohydrogenic Approaches to Hydrogen Production	VSS085; Robert Benedict, Goodyear: System for Automatically Maintaining Pressure in a Commercial Truck Tire	FC098; Max Wei, LBNL: A Total Cost of Ownership Model for Design and Manufacturing Optimization of Fuel Cells in Stationary and Emerging Market Applications
12:30 PM	LUNCH	LUNCH	LUNCH
1:45 PM	BES008; Javier Concepcion, Brookhaven National Laboratory: Catalyzed Water Oxidation by Solar Irradiation of Band-Gap-Modified Semiconductors	MT007; Russ Keller, SCRA: Landfill Gas-to-Hydrogen	TV020; Larry Moulthrop, Proton OnSite: Validation of an Advanced High Pressure PEM Electrolyzer and Composite Hydrogen Storage, with Data Reporting, for SunHydro Stations
2:15 PM	BES009; Dmitry Polyansky, Brookhaven National Laboratory: Catalyzed Water Oxidation by Solar Irradiation of Band-Gap-Modified Semiconductors	MT006; Kriston Brooks, PNNL: Fuel Cell Combined Heat and Power Commercial Demonstration	TV024; David Blekhan, CSULA: CSULA Hydrogen Refueling Facility Performance Evaluation and Optimization
2:45 PM	BES010; Frances Houle, Lawrence Berkeley National Laboratory: Joint Center for Artificial Photosynthesis	MT008; Mitch Ewan, Hawaii Natural Energy Institute: Hydrogen Energy Systems as a Grid Management Tool	TV025; Michael Tieu, GTI: Performance Evaluation of Delivered Hydrogen Fueling Stations
3:15 PM	BES011; Ian Sharp, Lawrence Berkeley National Laboratory: Joint Center for Artificial Photosynthesis	MT011; Jim Petrecky, Plug Power: Ground Support Equipment Demonstration	TV026; Jennifer Kurtz, NREL: Hydrogen Fueling Infrastructure Research and Station Technology
3:45 PM	BREAK	BREAK	BREAK
4:15 PM	BES012; John Gregoire, Caltech: Joint Center for Artificial Photosynthesis	MT013; Joe Pratt, SNL: Maritime Fuel Cell Generator Project	TV019; Kevin Harrison, NREL: Hydrogen Component Validation
4:45 PM		MT014; Kriston Brooks, PNNL: Fuel Cell Based Auxiliary Power Unit for Refrigerated Trucks	TV008; Leslie Eudy, NREL: Fuel Cell Bus Evaluations
5:15 PM		H2RA005; Norm Bessette, Acumentrics: Demonstration of SOFC Generator Fueled by Propane to Provide Electrical Power to Real World Applications	TV016; Genevieve Saur, NREL: Stationary Fuel Cell Evaluation
5:45 PM		H2RA007; Jim Petrecky, Plug Power: Accelerating Acceptance of Fuel Cell Backup Power Systems	TV021; Jennifer Kurtz, NREL: Forklift and Backup Power Data Collection and Analysis



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Thursday, June 19 - Poster Presentations

Exhibit Halls A and B, 6:30-8:30 PM

Hydrogen Production and Delivery
PD056; Liwei Xu, Midwest Optoelectronics, LLC: Critical Research for Cost-Effective Photoelectrochemical Production of Hydrogen
BES016; Scott Saavedra, University of Arizona: Center for Interface Science: Solar-Electric Materials
BES017; Katherine Brown, National Renewable Energy Laboratory: Photobiological and Photobiohybrid Solar Fuels: Photobiohybrid Project
BES018; Tom Jaramillo, Stanford University: Center on Nanostructuring for Efficient Energy Conversion
BES019; Anne Jones, Arizona State: Center for Bio-Inspired Solar Fuel Production
BES020; Charles McCrory, Caltech: Joint Center for Artificial Photosynthesis
BES021; Matthew Shanner, Caltech: Joint Center for Artificial Photosynthesis
BES022; David Tiede, ANL: Argonne-Northwestern Solar Energy Research Center
BES023; Adam Weber, Lawrence Berkeley National Laboratory: Joint Center for Artificial Photosynthesis
AMO1; Bruce Logan, Penn State: Bioelectrochemical Integration of Waste Heat Recovery, Waste-to-Energy Conversion, and Waste-to-Chemical Conversion with Industrial Gas and Chemical Manufacturing Processes
PD104; Girish Srinivas, TDA Research, Inc.: Hydrogen Generation for Refineries
PD105; W. Shannan O'Shaughnessy, GVD: Flexible Barrier Coatings For Harsh Environments
PD092; Salvador Aceves, LLNL: Rapid High Pressure LH2 Refueling for Maximum Range and Dormancy
H2 Student Design: Washington State University; Low-Cost, Modular, Drop-in Hydrogen Fueling Station
Propulsion Materials
PM058; Dileep Singh, ANL: Alloy Development for High-Performance Cast Crankshafts
PM059; Rich Huff, Caterpillar: Development of Advanced High Strength Cast Alloys for Heavy Duty Engines
PM060; Mei Li, Ford: ICME Guided Development of Advanced Cast Aluminum Alloys For Automotive Engine Applications
PM061; Mike Walker, General Motors: Computational design and development of a new, lightweight cast alloy for advanced cylinder heads in high-efficiency,
PM062; Amit Shyam, ORNL: High Performance Cast Aluminum Alloys for Next Generation Passenger Vehicle Engines 2012 FOA 648 Topic 3a
PM063; G. Muralidharan, ORNL: High Strength, Light-Weight Engines for Heavy Duty Trucks
PM044; Stan Pitman, PNNL: High Temperature Aluminum Alloys (Agreement ID:24034) Project ID:18518
PM064; H. Wang, ORNL: International Energy Agency (IEA IA-AMT) International Characterization Methods (Agreement ID:26462)
Technology Validation
TV001; Jennifer Kurtz, NREL: Fuel Cell Electric Vehicle Evaluation
TV017; Sam Sprik, NREL: Hydrogen Station Data Collection and Analysis
TV018; Rhonda Staudt, H2Pump: Hydrogen Recycling System Evaluation and Data Collection
TV023; Michael Kashuba, CARB: Newport Beach Hydrogen Station Key Performance Indicators
TV027; Bill Elrick, CaFCP : H2-FCEV Commercialization: Facilitating collaboration, obtaining real world expertise, and developing new analysis tools
Fuel & Lubricant Technologies
FT021; Jun Qu, ORNL: Can hard coatings and lubricant anti-wear additives work together?
FT022; Sibendu Som, ANL: CFD Simulations and Experiments to Determine the Feasibility of Various Alternate Fuels for Compression Ignition Engine Application
FT012; George Fenske, ANL: Engine Friction Reduction Technologies



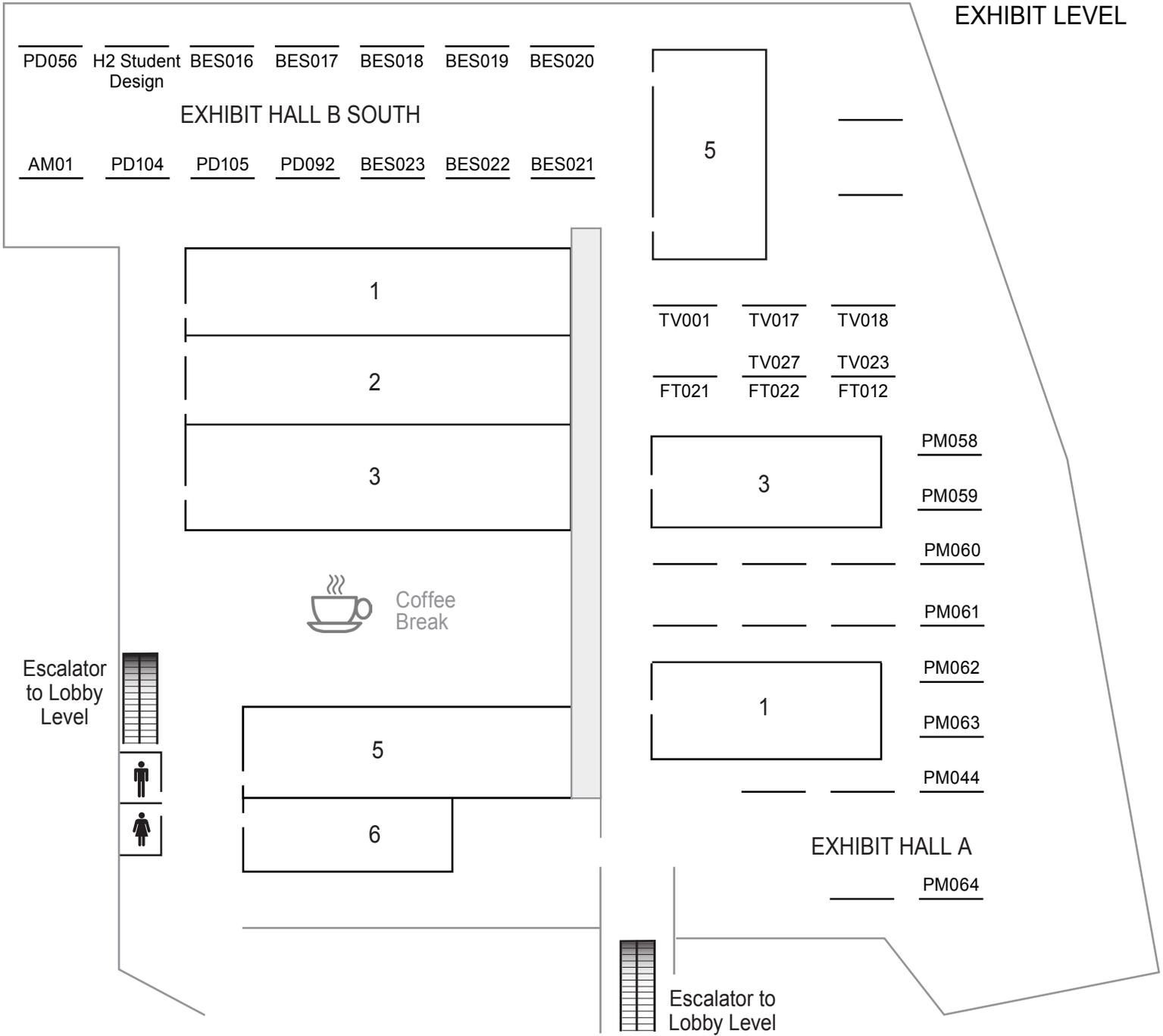
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Thursday Poster Map

EXHIBIT LEVEL



Friday, June 20 - Oral Presentations

Salon	Delaware A	Delaware B	Washington 1
8:30 AM	ACE086; Edward Keating, General Motors LLC: The Application of High Energy Ignition and Boosting/Mixing Technology to Increase Fuel Economy in Spark Ignition Gasoline Engines by Increasing EGR Dilution Capability	PM049; Krishna Kamasamudram, Cummins: Catalyst Characterization (Agreement ID:9130) Project ID:18519	VSS137; Jim Francfort, INL: EV Project Data & Analytic Results
9:00 AM	ACE087; Mike Bunce, MAHLE Powertrain LLC : Next-generation Ultra-Lean Burn Powertrain	PM010; Thomas Watkins, ORNL: Durability of Diesel Particulate Filters (Agreement ID:10461) Project ID:18519	VSS138; Melissa Lapsa, ORNL: EV Project: Solar-Assisted Charging Demo
9:30 AM	ACE092; Charles Mandler, Envera LLC: High Efficiency VCR Engine with Variable Valve Actuation and New Supercharging Technology	PM055; Michael Lance, ORNL: Biofuel Impacts on Aftertreatment Devices (Agreement ID:26463) Project ID:18519	ARRAVT067; Abdullah Bazzi, Chrysler LLC: Advancing Transportation through Vehicle Electrification – Ram 1500 PHEV
10:00 AM	ACE088; Swami Nathan Subramanian, Eaton Corporation : Heavy Duty Roots Expander for Waste Heat Energy Recovery	PM009; Michael Lance, ORNL: Materials Issues Associated with EGR Systems (Agreement ID:18571) Project ID:18518	
10:30 AM	BREAK	BREAK	BREAK
11:00 AM	ACE057; David Koeberlein, Cummins: Cummins SuperTruck Program Technology and System Level Demonstration of Highly Efficient and Clean, Diesel Powered Class 8 Trucks	PM056; Larry Allard, ORNL: Characterization of Catalysts Microstructures	
11:30 AM	ACE058; Sandeep Singh, Detroit Diesel: SuperTruck Program: Engine Project Review	PM057; David J. Singh, ORNL: Applied ICME for New Propulsion Materials (Agreement ID:26391) Project ID:18865	
12:00 PM	ACE060; John Gibble, Volvo: Volvo SuperTruck - Powertrain Technologies for Efficiency Improvement		

Salon	Washington 3		
8:30 AM		TI049; Andrew Johnston, City of Austin: Central Texas Fuel Independence Project	
9:00 AM		TI050; Allison Carr, Houston-Galveston Council: Alternative Fueling Diversity in the Energy Capital of the World	
9:30 AM		TI051; Wendy Morgan, Center for Transportation and the Environment, Inc.: Southeast Regional Alternative Fuels Market Initiatives Program	
10:00 AM		TI052; Colleen Ketties, University of Central Florida: Advancing Alternative Fuel Markets in Florida	
10:30 AM	BREAK	BREAK	BREAK
11:00 AM		TI053; Anne Tazewell, North Carolina State University: Alternative Fuels Implementation Team (AFIT) for North Carolina	
11:30 AM		TI054; Pamela Burns, North Central Texas Council of Governments: Moving North Texas Forward by Addressing Alternative Fuel Barriers	
12:00 PM		TI055; Ted Sears, NREL: Alternative Fuel Transportation Program	



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