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**
Noon	**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, Huei 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)

*** Salon 2; ** Salon 3**

Schedule as of: 8-Jul-14

Tuesday June 17

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)**								
8:15 AM									
8:30 AM	Materials[1]				Systems Analysis[2]				
9:00 AM	Adv. Power Electronics[1]				Safety, Codes & Stan.[2]				
9:30 AM	VT Analysis[1]				Technology Validation[2]				
10:00 AM	Technology Integration[1]				Market Transformation[2]				
10:30 AM	**Break (Salon 1 and Washington 4)**								
11:00 AM	ACE	APE	ES	LM	VSS	AN	PD	ST	FC
11:30 AM	ACE	APE	ES	LM	VSS	AN	PD	ST	FC
12:00 PM	ACE	APE	ES	LM	VSS	AN	PD	ST	FC
12:30 PM	**Lunch (Salons 2 and 3)**								
	1:00 PM - Sunita Satyapal: Hydrogen and Fuel Cells Program Awards Presentations								
1:45 PM	ACE	APE	ES	LM	VSS	AN	PD	ST	FC
2:15 PM	ACE	APE	ES	LM	VSS	AN	PD	ST	FC
2:45 PM	ACE	APE	ES	LM	VSS	AN	PD	ST	FC
3:15 PM	ACE	APE	ES	LM	VSS	AN	PD	ST	FC
3:45 PM	**Break (Salon 1 and Washington 4)**								
4:15 PM	ACE	APE	ES	LM	VSS	AN	PD	ST	FC
4:45 PM	ACE	APE	ES	LM	VSS	AN	PD	ST	FC
5:15 PM	ACE	APE	ES	LM	VSS		PD	ST	FC
5:45 PM					VSS			ST	FC
6:30 PM	**POSTER SESSION II:** Electrochemical Storage and Advanced Power Electronics (Exhibit Hall A)								
8:30 PM									

[1]Maryland ABC; [2]Virginia ABC

Wednesday June 18

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, Washington 4)**								
8:15 AM			ES						
8:30 AM	ACE	APE	ES	LM	VSS	SCS	PD	ST	FC
9:00 AM	ACE	APE	ES	LM	VSS	SCS	PD	ST	FC
9:30 AM	ACE	APE	ES	LM	VSS	SCS	PD	ST	FC
10:00 AM	ACE	APE	ES	LM	VSS	SCS	PD	ST	FC
10:30 AM	**Break (Salon 1 and Washington 4)**								
11:00 AM	ACE	APE	ES	LM	VSS	SCS	PD	ST	FC
11:30 AM	ACE	APE	ES	LM	VSS	SCS	PD	ST	FC
12:00 PM	ACE	APE	ES	LM	VSS	SCS	PD	ST	FC
12:30 PM	**Lunch (Salons 2 and 3)**								
	1:00 PM - Patrick Davis: Vehicle Technologies Office Awards Presentations								
1:45 PM	ACE	VAN	ES	LM	VSS	SCS	PD	ST	FC
2:15 PM	ACE	VAN	ES	LM	VSS	SCS	BES	ST	FC
2:45 PM	ACE	VAN	ES	LM	VSS	SCS	BES	ST	FC
3:15 PM	ACE	VAN	ES	LM	VSS	SCS	BES	ST	FC
3:45 PM	**Break (Salon 1 and Washington 4)**								
4:15 PM	ACE	VAN	ES	LM	VSS	SCS	BES	MN1	FC
4:45 PM	ACE	VAN	ES	LM	VSS	SCS	BES	MN2	FC
5:15 PM	ACE	VAN	ES		VSS		BES		FC
5:45 PM					VSS		BES		FC
6:30 PM	**POSTER SESSION III:** Hydrogen Storage and Vehicle Technologies Analysis (Exhibit Hall A); Fuel Cells and ARPA-E (Exhibit Hall B)								
8:30 PM									

Thursday June 19

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, Washington 4)**								
8:15 AM			ES						
8:30 AM	ACE	FT	ES	LM	VSS	TI	PD		FC
9:00 AM	ACE	FT	ES	LM	VSS	TI	PD		FC
9:30 AM	ACE	FT	ES	LM	VSS	TI	PD	VSS	FC
10:00 AM	ACE	FT	ES	LM		TI	PD	VSS	FC
10:30 AM	**Break (Salon 1 and Washington 4)**								
11:00 AM	ACE	FT	ES	ACE	VSS	TI	PD	VSS	FC
11:30 AM	ACE	FT	ES	ACE	VSS	TI	PD	VSS	FC
12:00 PM	ACE	FT	ES	ACE	VSS	TI	PD	VSS	FC
12:30 PM	**Lunch (Salons 2 and 3)**								
1:45 PM	ACE	FT	H2 IN	PM	VSS	TI	BES	MT	TV
2:15 PM	ACE	FT	H2 IN	PM	VSS	TI	BES	MT	TV
2:45 PM	ACE	FT	H2 IN	PM	VSS	TI	BES	MT	TV
3:15 PM	ACE	FT	H2 IN	PM	VSS	TI	BES	MT	TV
3:45 PM	**Break (Salon 1 and Washington 4)**								
4:15 PM	ACE	FT	H2 IN	PM	VSS	TI	BES	MT	TV
4:45 PM	ACE	FT		PM	VSS	TI	BES	MT	TV
5:15 PM	ACE			PM	VSS	TI		H2RA	TV
5:45 PM					VSS	TI		H2RA	TV
6:30 PM	**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									

Friday June 20

Session Rooms		Delaware A	Delaware B	Washington 1		Washington 3	
7:15 AM	**Continental Brkf. (Salon 1, Wash. 4)**						
8:30 AM		ACE	PM	VSS		TI	
9:00 AM		ACE	PM	VSS		TI	
9:30 AM		ACE	PM	VSS		TI	
10:00 AM		ACE	PM			TI	
10:30 AM	**Break (Salon 1 and Washington 4)**						
11:00 AM		ACE	PM			TI	
11:30 AM		ACE	PM			TI	
12:00 PM		ACE				TI	

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**

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**

Wardman Park Marriott

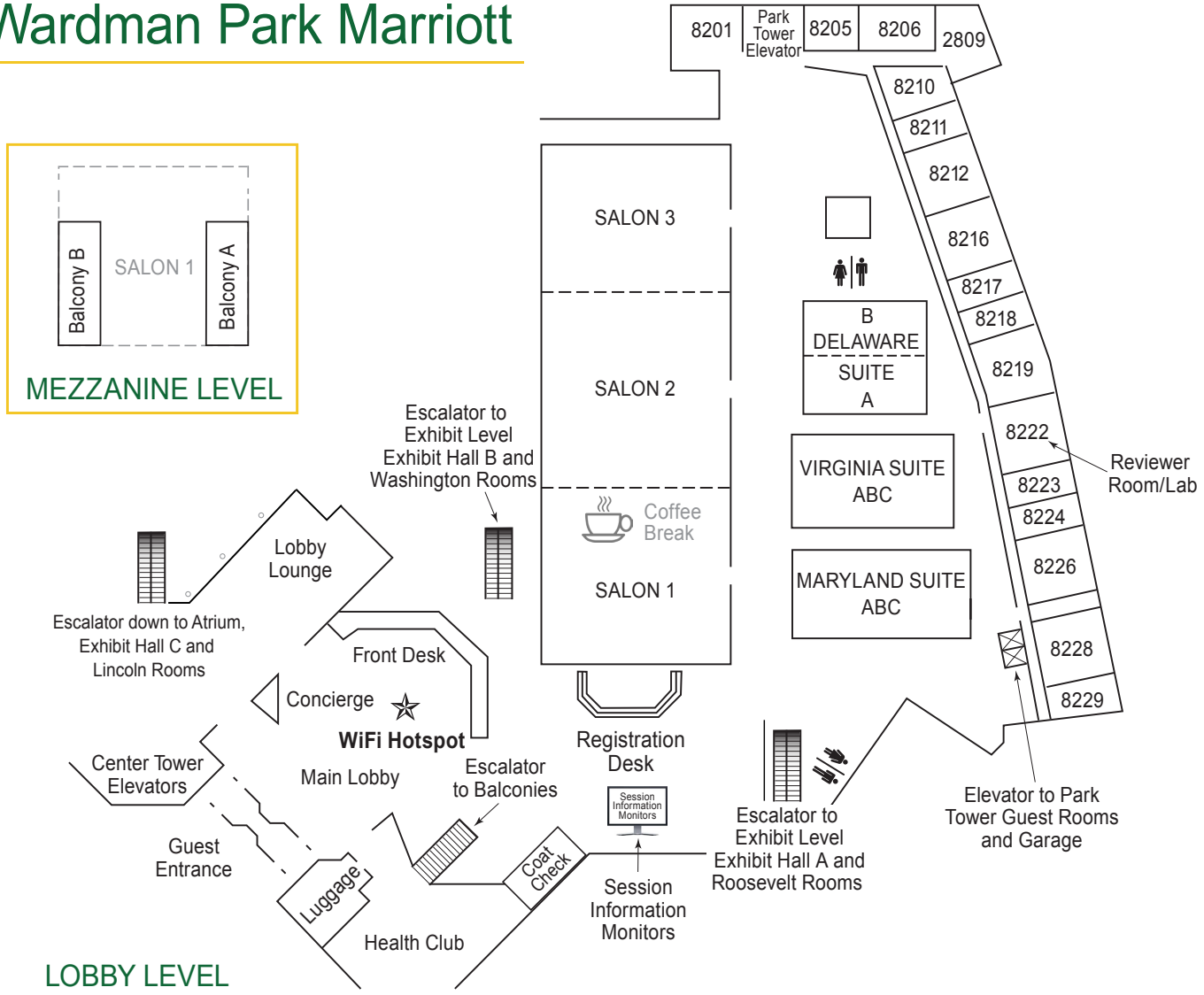
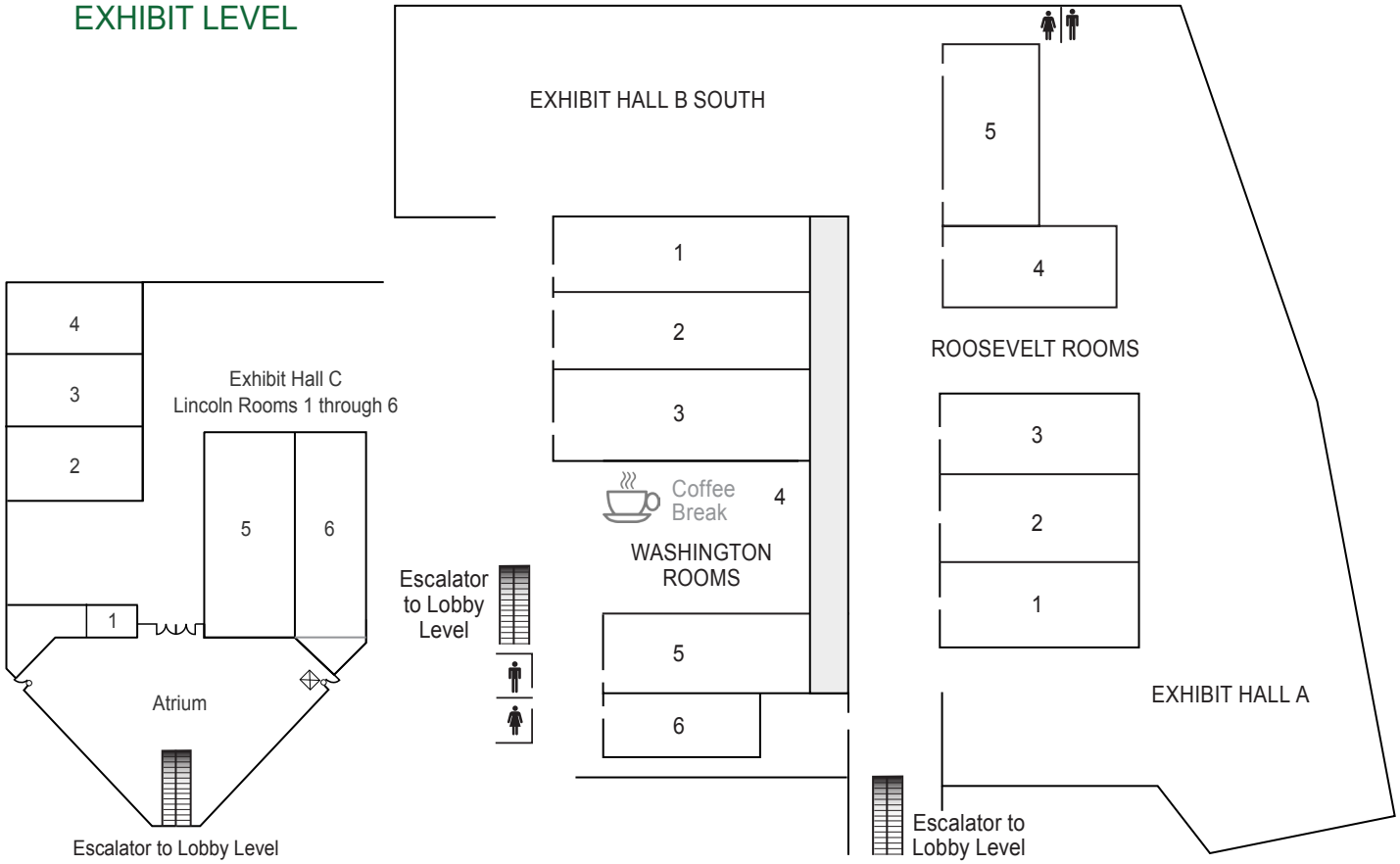


EXHIBIT LEVEL



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, Seeo: 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 Nanomatertials 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; Grigorii 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 Converstion
CERC3: Vehicle Electrification
CERC4: Advanced Lightweight Materials and Vehicle Structures
CERC5: Vehicle-Grid Integration
CERC6: Energy Systems Analysis, Technology Road-maps, and Policy

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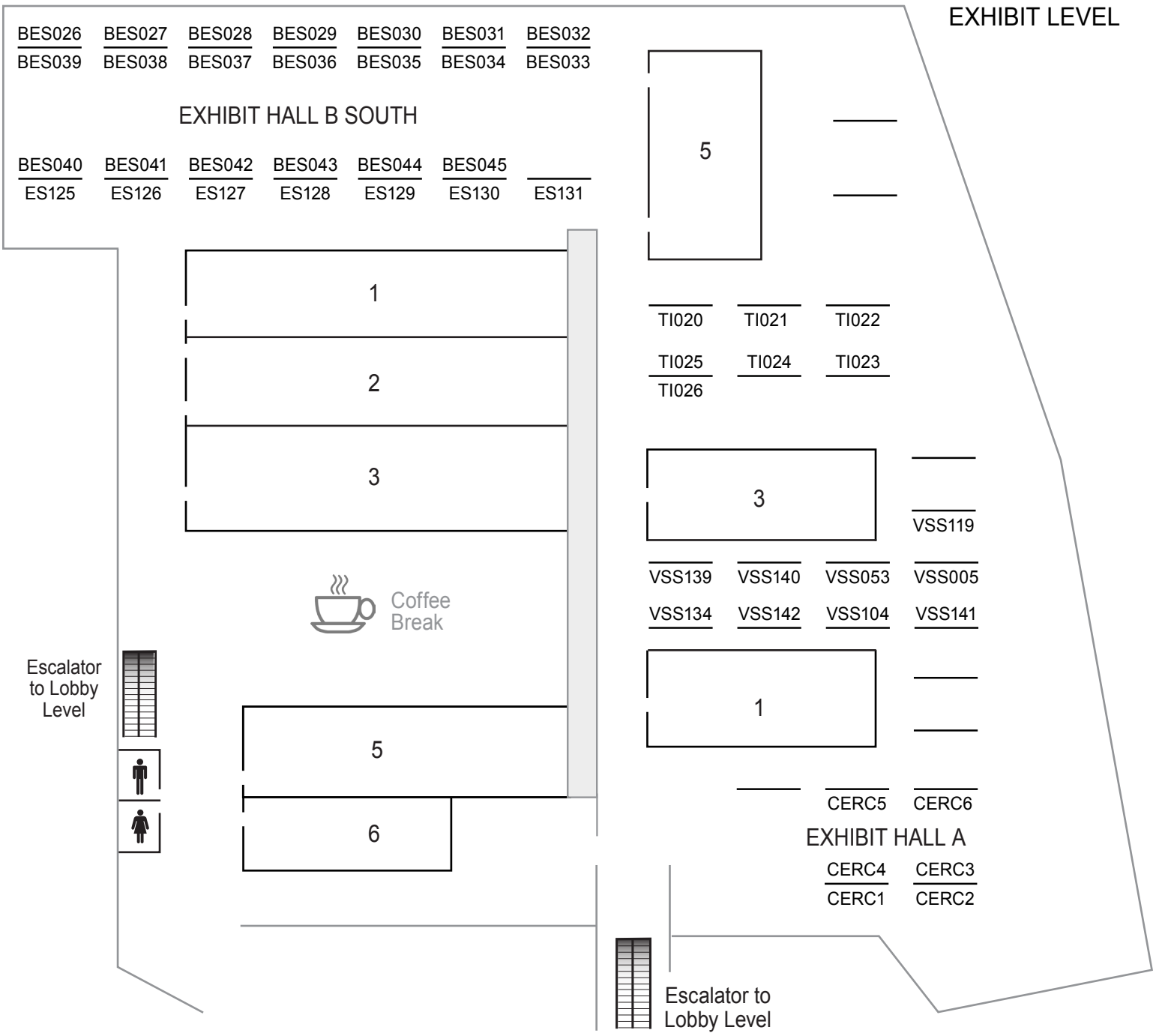
Monday Poster Map



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	ES198; 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; Ragaiy 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 Vaughey, 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 SiOx-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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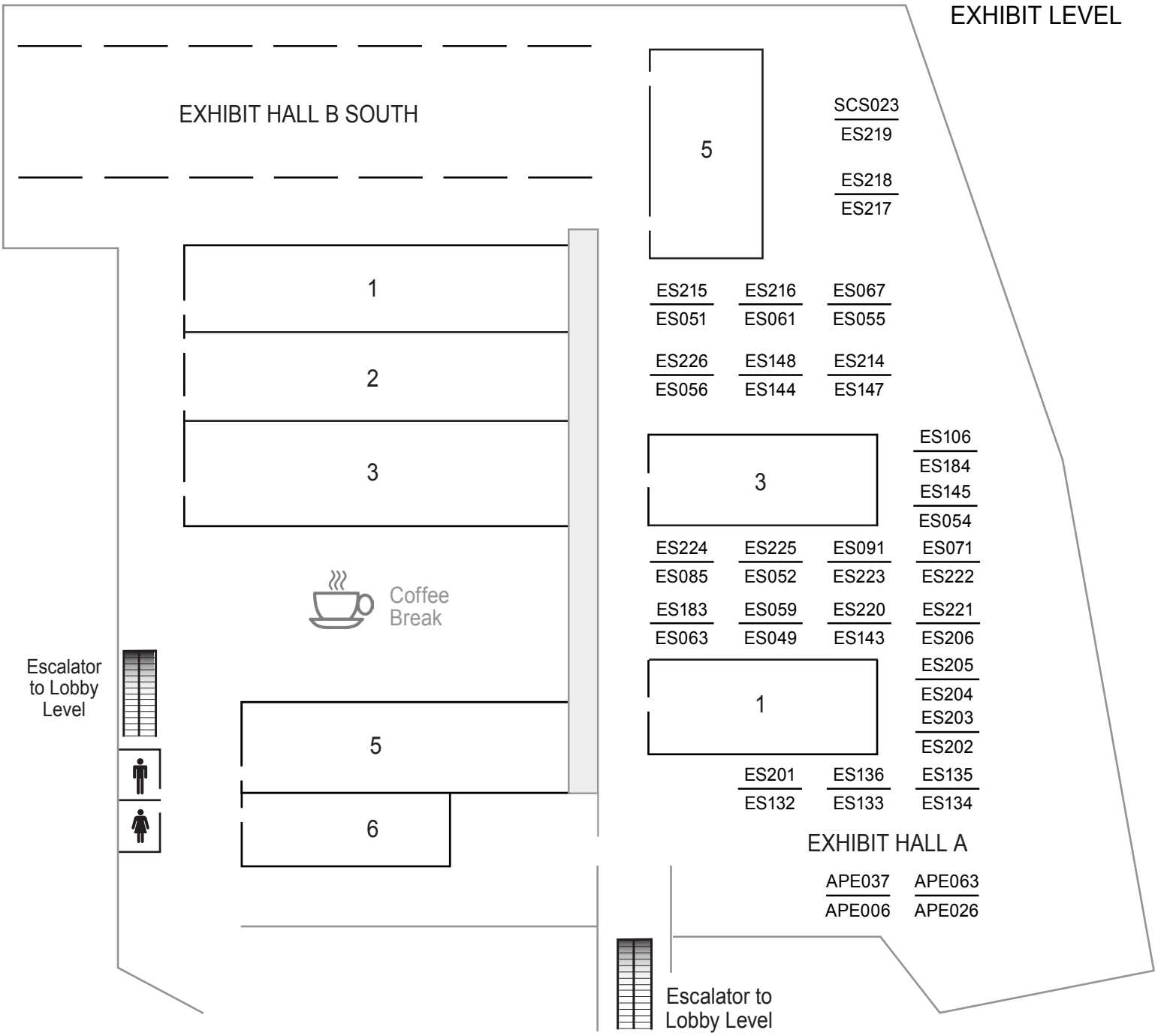
Tuesday Poster Map



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 Waye, 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 Ulsh, 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, Ceramatec: 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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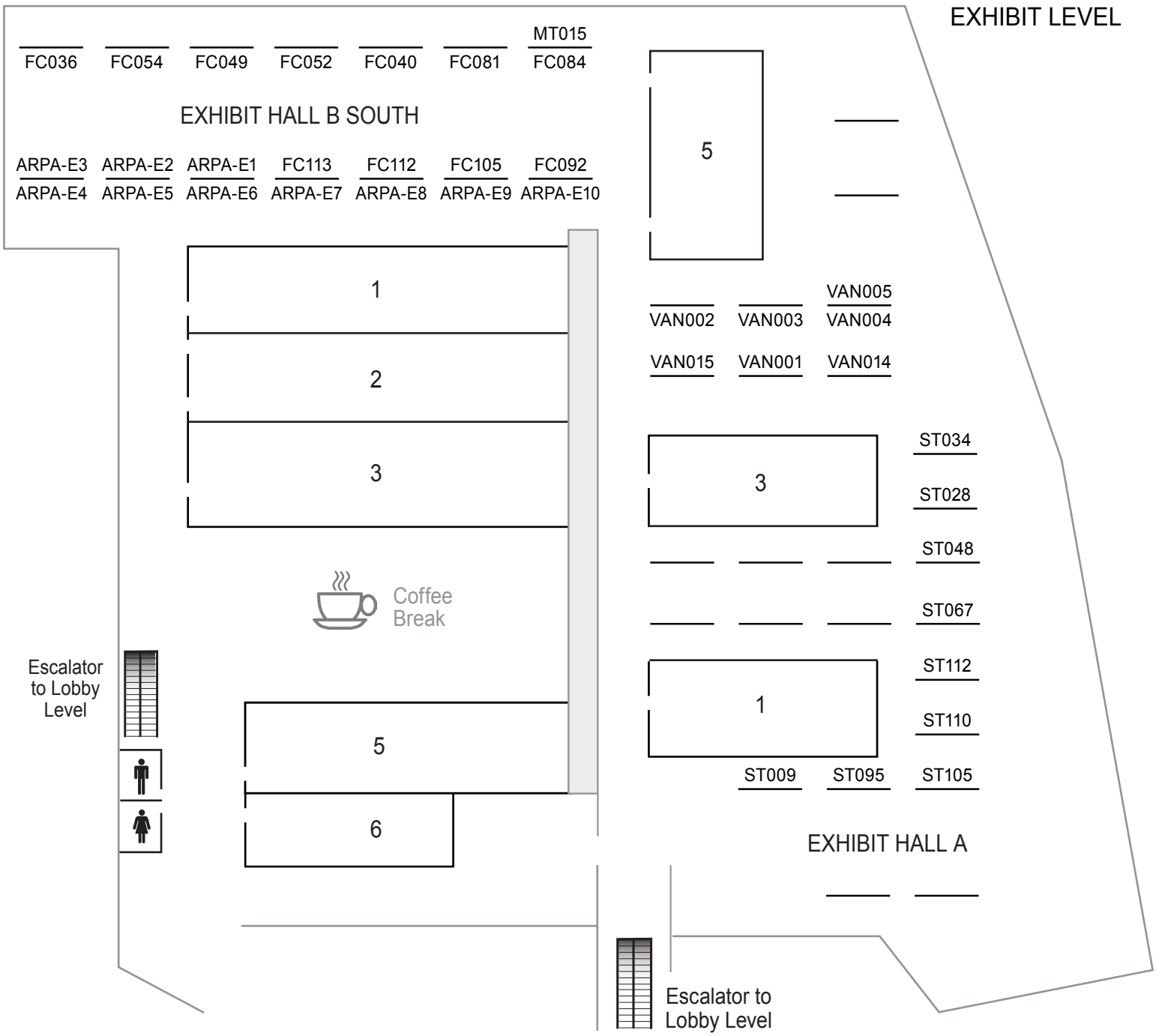
Wednesday Poster Map



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: Atomistc 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 Jovovic, 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-Galvelston 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 O2-Tolerance using CBS Hydrogenase for H2 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 Blekhman, 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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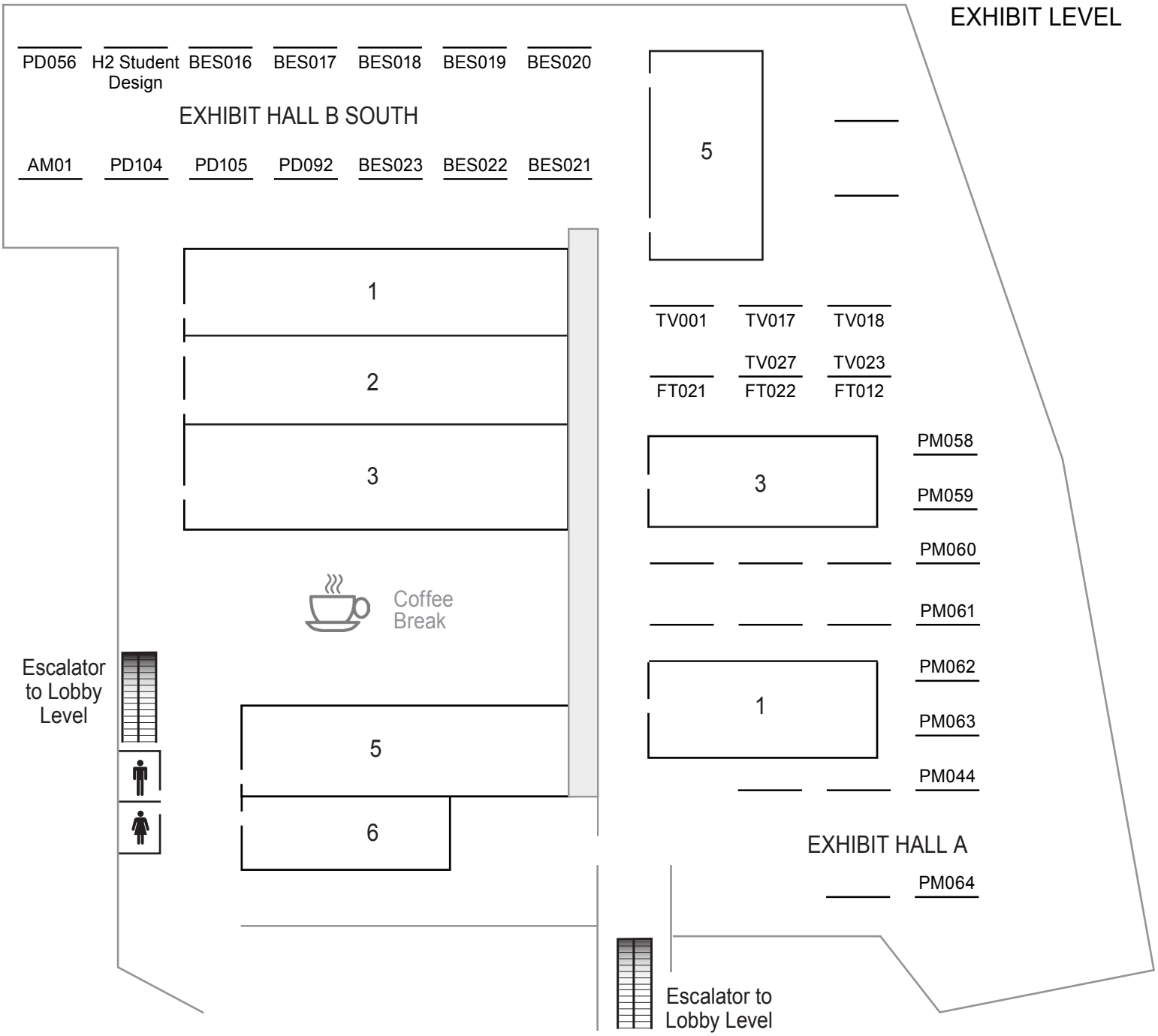
Thursday Poster Map



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 Mendler, 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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