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In partnership with: **FleetOwner**

Conference: April 23 - 26, 2019

Expo: April 24 - 25, 2019

CONFERENCE PROGRAM



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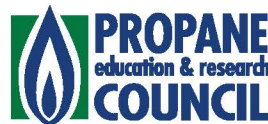
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TRAILER BODY BUILDERS

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ACT Expo is presented in partnership with Informa Commercial Vehicle Intelligence group and its transportation-focused media outlets: *Fleet Owner*, *American Trucker*, *Bulk Transporter*, *Refrigerated Transporter*, *Trailer Body Builders*, and *Wards Auto*.

This partnership signifies the importance of fleet sustainability across all vehicle weight classes and fuel types.

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2019 Collaborating Organizations

Each year, ACT Expo brings together a national network of organizations to provide expertise and insight on the technologies and policies that are shaping the world of advanced transportation technologies.

Event Partners

Industry associations and non-profits across the commercial transportation space partner with ACT Expo each year to host co-located events, provide support in planning the agenda, and engage with a diverse audience of transportation industry professionals from around the globe.



High-Volume Fleet Planning Committee

To help ensure that the programming addresses the most relevant topics for fleet managers, the agenda is planned with the ongoing assistance of fleets that collectively manage hundreds of thousands of commercial fleet vehicles.



Clean Cities Planning Committee

The US Department of Energy's Clean Cities local chapters provide programming and speaker recommendations to help ensure that sustainable transportation initiatives across the nation are highlighted. Clean Cities is celebrating its 25th year of progress in advancing the nation's economic, environmental, and energy security.

Alabama Clean Fuels Coalition
Arkansas Clean Cities
Central Coast Clean Cities
Central Florida Clean Cities Coalition
Central Oklahoma Clean Cities
Clean Cities - Georgia
Clean Communities of Central New York (Syracuse)
Clean Fuels Ohio
Denver Metro Clean Cities Coalition
East Bay Clean Cities Coalition
Eastern Pennsylvania Alliance for Clean Transportation

Empire Clean Cities
Greater Indiana Clean Cities Coalition
Greater Lansing Area Clean Cities
Greater New Haven Clean Cities Coalition
Greater Rochester Clean Cities
Los Angeles Clean Cities Coalition
Louisiana Clean Fuels
Massachusetts Clean Cities
New Jersey Clean Cities Coalition
North Florida Clean Fuel Coalition
Northern Colorado Clean Cities Coalition

Palmetto Clean Fuels Coalition
Sacramento Clean Cities Coalition
San Diego Regional Clean Cities Coalition
San Francisco Clean Cities Coalition
Southeast Louisiana Clean Fuel Partnership
South Shore Clean Cities
Southern California Clean Cities Coalition
St. Louis Clean Cities
State of Maryland Clean Cities
State of West Virginia Clean Cities
Tampa Bay Clean Cities Coalition

Tucson Clean Cities
Tulsa Clean Cities
Utah Clean Cities
Wisconsin Clean Cities

2019 Expo Hall & Exhibitor List



EXPO HALL HOURS:

Wednesday, April 24
12:15 p.m. to 7:00 p.m.

Thursday, April 25
10:00 a.m. to 6:00 p.m.

CATEGORY	BOOTH	CATEGORY	BOOTH	CATEGORY	BOOTH	CATEGORY	BOOTH
ABB Inc.	2006	CP Industries	719	HOTSTART	1814	Renewable Energy Group	453
ADOMANI	1655	CRP Industrial	827	Hy-Lok	929	ROUSH CleanTech	735
Advanced Energy Machines	1363	Cummins Westport	938	INCHARGE	1647	Ryder System	1647
Agility Fuel Solutions	1235	Cyber Switching	1906	InsightFuel, LLC	658	SafeConnect Systems	1715
Allied Equipment	757	Czaja Filters	731	J-W Power Company	928	SEA Electric	1527
Allison Transmission	1452	Daimler Trucks North America	847	Kenworth Truck Company	939	Sensor Electronics	726
American Honda Motor Company	1303	Dana	1847	Lightning Systems	1227	Simplefuel	1116
Amp Americas	860	Deflektor	651	LionM Minibus	1562	South Coast Air Quality Management District	1724
Amplify Power	1913	Delta Electronics (Americas) Ltd.	1815	Luxfer Gas Cylinders	839	Southern California Edison	1501
ANGI Energy Systems	915	DK-LOK USA	722	MACK Trucks	1547	Southern California Gas Company	723
Aperia Technologies	647	Dover Fueling Solutions	829	Meritor, Inc.	2134	Starline	1907
Ariel Corporation	539	Dulevo International Spa	1427	Milbank Manufacturing	1118	Staubli	920
Atlas Copco Gas and Process	657	Durr Technik USA	1130	Mitsubishi Fuso Trucks of America	1435	Streamline Transportation Technologies Inc	1258
Autocar Trucks	1163	Ecotuned Automobile	1800	Mitsubishi Motors North America, Inc.	1519	The Lion Electric Co.	1800
AxleTech	1447	Electra Meccanica	1725	Momentum Fuel Technologies	1127	The Mobility House	1358
BAE Systems	1809	Electric Built	1613	Morgan Olson	1219	Thermo King	1826
Bailey Power Systems	1128	electriphi, Inc.	1812	Motiv Power Systems	1327	Thor Trucks	1457
Ballard Power Systems	1126	Emcara Gas Development Inc.	761	Multiforce Systems	1615	TICO Terminal Tractors	635
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Bergstrom Inc.	2026	ESL Power Systems	1808	NGVi	819	Tritium	1712
Bison Compression	559	EV Connect	1912	Nikola	2147	TruStar Energy	447
Black & Veatch	1423	Fairview USA	727	noodoeEV	1518	Tulsa Gas Technologies	655
Bristol Clean Energy	756	Fermata Energy	1522	Nordresa	1755	US Hybrid	1663
BTCPower	1719	FIBA Technologies, Inc.	927	Nuvair	654	USA PRO Shoreline Technology LLC	1031
BYD Motors	2007	Fleet Owner	561	Oasis Engineering	754	Valvoline Heavy Duty	837
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Canimex	1800	Ford Motor Company	1507	Onboard Dynamics	815	Voiteq Inc	1159
Car-connect	1728	FreeWire Technologies	1417	OPW Clean Energy Fueling Products	926	Volvo Trucks	1634
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Control Dynamix	1709	Hexagon Composites	435	Quantum Fuel Systems LLC	912		
COVESS	560	Hino Trucks	1818				

Advanced Clean Technology Display Vehicles & Equipment



Agility: Freightliner Custom MT45 Strip Chassis w/Agility Low-NOx GM 6.0L NG Engine; Agility CNG Fuel Storage System



Autocar Truck: Front Loader Refuse Truck w/ L9N CNG Engine



BYD: All-Electric 25T Tug



BYD: All-Electric Gen 2 Yard Truck



BYD: Class 8 All-Electric Refuse Truck



BYD: ECB 18D-B All-Electric Forklift



BYD: K9S Electric Bus



CityFreighter: Electric CF1 Low Floor



Crane Carrier: Hybrid-Electric Refuse Truck w/ Active Stop-Start Tech - Ultra Low NOx NG Engine



Cummins Westport: ISX12N Ultra Low NOx Natural Gas Engine



Cummins Westport: L9N Natural Gas Engine



Daimler Trucks North America: Freightliner Custom Chassis MT50e All-Electric Walk-in Van Chassis



Daimler Trucks North America: Freightliner eCascadia Class 8 Electric Truck



Daimler Trucks North America: Freightliner eM2 Medium-Duty Electric Truck



Daimler Trucks North America: Freightliner New Cascadia Class 8 CNG Tractor



Daimler Trucks North America: Thomas Built Buses Saf-T-Liner eC2™ Battery-Electric School Bus



Dana: Peterbilt 220 Medium-Duty Battery Electric Truck



Dana: Zenith Battery Electric Van, Spicer Electrified with TM4 Electromechanical Powertrain



Dulevo International Spa: D.zero² Electric Street Sweeper



Ecotuned Automotive: All-Electric Ford F-150 Pickup



Electra Meccanica: SOLO All-Electric Vehicle (BEV)



Ford Motor Company: 2020 Police Interceptor Utility Hybrid



General Motors: Chevrolet, Bolt EV



GreenPower Bus: EV Star All-Electric Min-eBus



Hexagon Composites: 40-foot TITAN XL CNG Transport Trailer



Hino Trucks: Hybrid-Electric Box Truck



Hyllion: Hybrid-Electric Freightliner Cascadia CA125SLP



Lightning Systems: Battery-Electric GM 6500XD Low Cab Forward Vehicle



Lion Electric: Lion8 All-Electric Class 8 Urban Truck



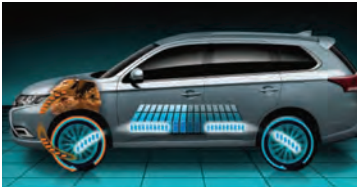
Lion Electric: LionC Electric School Bus



Lion Electric: LionM All-Electric Multiuse Midi/Minibus



MACK Trucks: Mack LR CNG Refuse Truck



Mitsubishi: Outlander PHEV Plug-In Hybrid-Electric SUV



Mitsubishi Fuso: All-Electric eCanter Box Truck



Morgan Olson: All-Electric Shuttle Bus



Motiv: Zero-Emissions Box Truck Built on All-Electric EPIC Chassis



National Biodiesel Board: ISUZU NQR Cabover Biodiesel Truck



Nikola: Hydrogen Fuel Cell Nikola Two



Nordresa: Isuzu NPR HD



NACFE: Run on Less Volvo VNM Day Cab with Efficiency Technologies



Odyne Systems: Worksite Electrification System (ePTO) on FCCC Chassis



Onboard Dynamics: GoFlo CNG80 Mobile Natural Gas Compressor



Orange EV: All-Electric T-Series Terminal Tractor



Penske Truck Leasing: All-Electric Freightliner eM2



Plug Power: Plug Power GenDrive Fuel Cell-Powered Pallet Jack



Quantum Fuel Systems: VPLite8 CNG Virtual Pipeline Trailer



Ryder System: Chanje All-Electric Panel Van



SEA Electric: SEA-Drive All-Electric Isuzu NRR EV

Advanced Clean Technology Display Vehicles & Equipment



SoCal Gas: Low-Pressure, Bi-Fuel Adsorbed Natural Gas (ANG) Ford F-150 Light-Duty Truck



Thermo King: All-Electric Refrigerated Transport Van



Thor Trucks: ET-One All-Electric Semi Truck



TICO Manufacturing: Propane Powered Yard Spotter



TICO Manufacturing: CNG Pro-Spotter



Toyota: Hydrogen Fuel Cell Mirai



Toyota: Plug-In Hybrid-Electric Prius Prime



US Hybrid: Class 7 Electric Street Sweeper



US Hybrid: Class 8 Fuel Cell Electric Drayage Truck



XL: Plug-in Hybrid Electric Ford F-250 Pickup



ZeroNox: All-Electric Class 5 Truck



ZeroNox: E20SL Electric Forklift



Keynote Speaker - Wednesday, April 24

Roger Nielsen, President and Chief Executive Officer

DAIMLER

Roger M. Nielsen has been the chief executive officer and president of Daimler Trucks North America LLC since April 6, 2017. Nielsen is responsible for Daimler Trucks North America LLC's entire North American truck manufacturing network, as well as all levels of operations in manufacturing engineering, information technology, purchasing, logistics, customer application engineering and truck order administration. Nielsen joined Daimler Trucks North America LLC in 1986 as an industrial engineer. He has held positions of increasing responsibility, including industrial engineering manager; plant manager, Gastonia Parts Manufacturing Plant, North Carolina; general manager, materials; and general manager, manufacturing operations. Nielsen transferred to DaimlerChrysler in Germany in 1998 where he served as

director of production network planning and technical clearing, within DaimlerChrysler's Commercial Vehicles Division before assuming the position of general manager of operations at Western Star Trucks in 2000. In January 2001, Nielsen served as the president of Freightliner Specialty Vehicles Group, responsible for Daimler Trucks North America LLC's American LaFrance, Freightliner Custom Chassis Corporation and Thomas Built Buses business units. Nielsen has served on the Board of Directors for the North Carolina Alliance for Competitive Technologies, the Gaston North Carolina Chamber of Commerce and Oregon State University's Engineering Cooperative Education Program. Nielsen earned his Bachelor of Science degree in industrial engineering from Oregon State University and is a registered Professional Engineer.

Featured Speakers



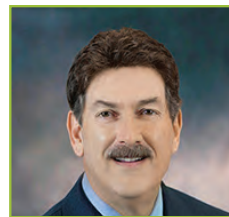
Roger Nielsen
President and Chief
Executive Officer
**Daimler Trucks North
America**



Jay Craig
Chief Executive Officer and
President
Meritor



Peter Voorhoeve
President
**Volvo Trucks North
America**



Ike Brown
Vice-Chairman, President,
and Co-Owner
NFI Industries



Paul Rosa
Senior Vice President,
Procurement and Fleet
Planning
Penske Truck Leasing



Trevor Milton
Chief Executive Officer
Nikola Motor Company



Emily Conway
Fleet Sustainability
Manager
PepsiCo North America



Stephen Ellis
Manager, Fuel Cell Vehicle
Marketing
**American Honda Motor
Company**



Jordan Gildersleeve
Senior Business
Development Associate
Jump Uber



Hon. Janice Hahn
Board Member
**South Coast Air Quality
Management District**



Bill Kahn
Principal Engineer
Peterbilt



Jason Krajewski
Director, Truck Connectivity
**Daimler Trucks North
America**



Brian Lindgren
Director, Research &
Development
Kenworth



Matt McLelland
Innovation Strategist
**Covenant Transportation
Group**



Mitchell McMahon
Senior Manager, Fleet and
Facilities
Anheuser-Busch InBev



Susan McSherry
Director, Alternative Fuel
Programs
**New York City Department
of Transportation**



Lilia Montoya
Deputy Director of
Transportation
**Los Angeles Unified
School District**



Troy Musgrave
Director, Process
Improvement
**Dependable Supply Chain
Services**



Tucker Perkins
President and Chief
Executive Officer
**Propane Education &
Research Council**



Mari Roberts
Senior Director,
Transportation
Frito-Lay



Sherry Sanger
Senior Vice President,
Marketing
Penske Truck Leasing



Rebecca Shelby
Environmental Regulatory
Engineer
Ford Motor Company



Steve Slesinski
Director, Global Product
Planning
Dana Incorporated



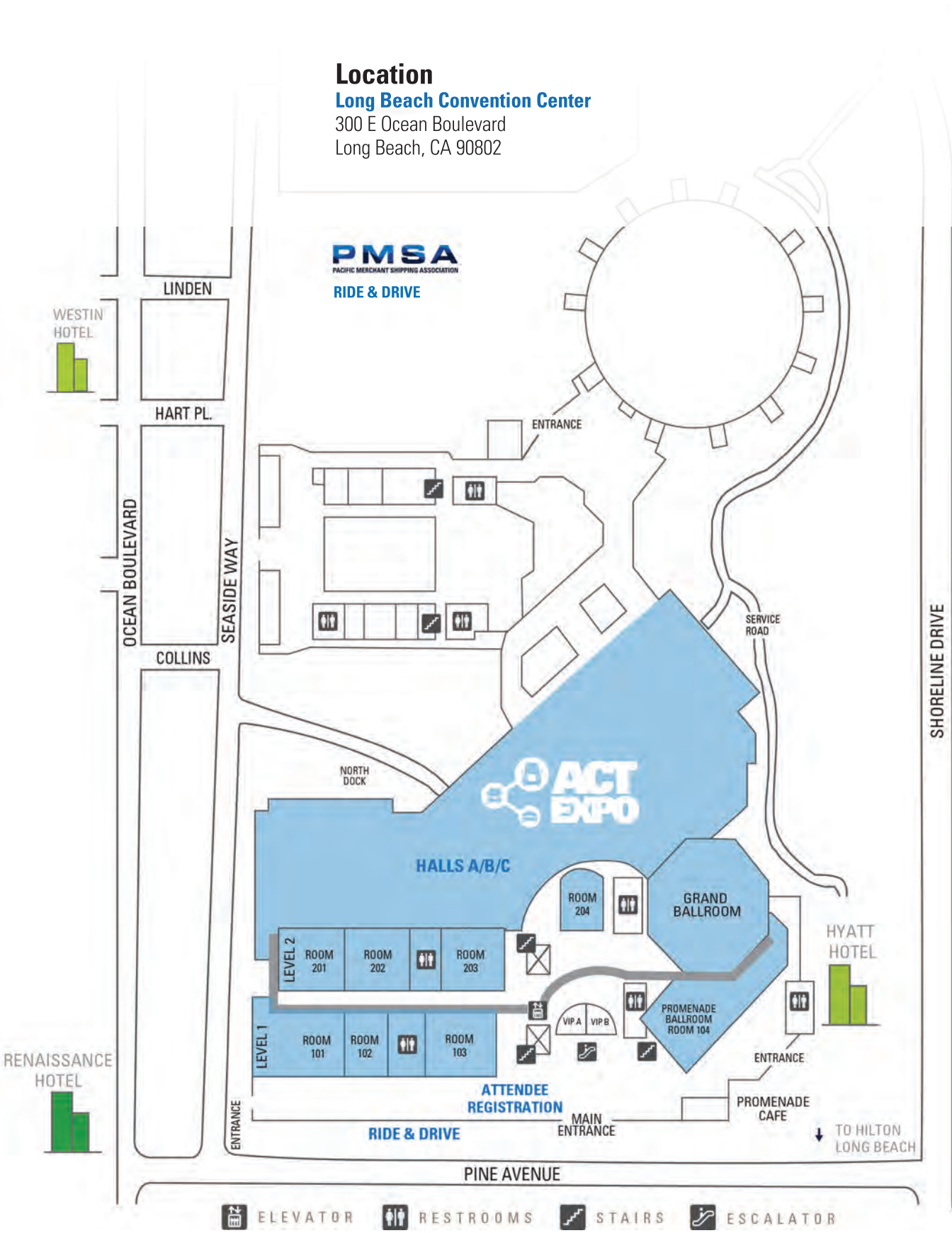
Dinero Washington
President and Chief
Executive Officer
SporTran



Jennifer Wheeler
Senior Manager, Supply
Chain Sustainability
Walmart

Long Beach Convention Center

Location
Long Beach Convention Center
300 E Ocean Boulevard
Long Beach, CA 90802



Agenda at a Glance

General Session

Breakout Session

Workshops & Forums

Networking Opportunities

Monday, April 22

TIME	EVENT
3:00 pm	Hop-On, Hop-Off Brewery Tour

Tuesday, April 23

TIME	EVENT
6:30 am	ACT Expo Fun Run
9:00 am	Clean Fuel Vehicle Bootcamp
9:00 am	Electrification Coalition: Electrifying Fleets Through Aggregated Purchasing
10:00 am	A Small and Mighty Fleet
10:00 am	BSR's Buyer-Supplier Roundtable: Understanding and Evaluating / Assessing the Market for Sustainable Fuels and Clean Technology
10:00 am	Battery Technology Workshop
10:00 am	Connected Vehicle Technology Workshop 2.0
10:00 am	Workforce Development Workshop: Meeting the Vehicle Maintenance Challenge
12:30 pm	NACFE: Help Shape the Future of Regional Freight Movement
1:00 pm	Navigating Fleet Regulations
1:00 pm	CHBC: Hydrogen and Fuel Cells for Freight Workshop
3:00 pm	PERC: Propane Autogas Answers Fleet Needs!
5:00 pm	Fleet Awards Reception

Wednesday, April 24

TIME	EVENT
8:00 am	Accelerating Clean School Bus Procurement: A Roundtable Discussion
8:00 am	From Mandate to Asset Management: Urban Mobility "Culture Shift" Roundtable
8:00 am	Women in ACT: Implementing Innovation with a Diverse Workforce
8:00 am	Zero-ing in on Refuse: Exploring the Potential for EV to Meet Refuse Collection Demands
10:00 am	Conference Opening
10:10 am	Welcome Address
10:20 am	Special Recognition Ceremony
10:40 am	Keynote Address
11:00 am	Trending: The State of Alternative Fuels and Connected Tech
12:15 pm	Lunch in the Expo Hall
5:00 pm	Expo Hall Grand Opening Reception

Thursday, April 25

TIME	EVENT
8:00 am	EV Charging Infrastructure Workshop I: Planning for EV Charging Solutions in Fleet Operations
8:30 am	1.1 Biofuels Bonanza: What Fleets Need to Know
8:30 am	1.2 Micromobility and Connected Tech: Solving Chronic Challenges with Creative Solutions
10:00 am	EV Charging Infrastructure Workshop II: Tackling Cost
10:00 am	Expo Hall Open
10:30 am	2.1 Zero and Near Zero Emission Freight Facilities Projects
10:30 am	2.2 Innovative Fleet Applications in Light- and Medium-Duty Urban Mobility
11:00 am	EV Charging Infrastructure Workshop III: The Network
12:00 pm	Lunch in the Expo Hall
2:00 pm	EV Charging Infrastructure Workshop IV: Mobile, Wireless, and Automated Charging
2:00 pm	3.1 Greening the Shared Fleet
2:00 pm	3.2 Medium- and Heavy-Duty Electric Truck Technology Showcase
2:00 pm	3.3 School, Transit, and Shuttle Bus Technology Showcase
4:00 pm	Expo Hall Networking Reception

Friday, April 26

TIME	EVENT
8:00 am	Funding Fundamentals: Funding 101
8:00 am	Greening Aviation: Funding, Equipment, and Vehicles
8:00 am	PMSA: The Future of Clean Cargo Handling Equipment
9:00 am	Funding Workshop
9:00 am	Ride & Drive

Agenda - Monday, April 22

General Sessions ■
Breakout Sessions ■
Workshops & Forums ■
Networking Opportunities ■

3:00 pm - 6:00 pm

NETWORKING

Hop-On, Hop-Off Brewery Tour

Join ACT Expo for a brewery tour around the Long Beach and South Bay area. Participants will have the opportunity to "hop" between local breweries on advanced clean transportation, networking with other attendees, exploring the locale, and sampling local beers.

An additional registration and fee are required to attend this tour.



NEWS COVERAGE POWERED BY

TRUCKS

ACT NEWS LIVE

The show magazine for ACT Expo 2019

Wednesday, April 24th & Thursday, April 25th

Pick up your copy to read event news, including product debuts, corporate announcements and executive interviews.





LEADING THE CHARGE IN ELECTRIC.



DAIMLER | Freightliner - A Daimler Group Brand

Visit Daimler Trucks North America at Booth 847

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6:30 am - 7:00 am

NETWORKING

ACT Expo Fun Run

Start your day off on the right foot, and join us for a 3-mile run along the beach. Enjoy the view and weather in sunny Southern California while networking with other ACT Expo attendees.

9:00 am - 10:00 am

Room 102BC

WORKSHOPS & FORUMS

Clean Fuel Vehicle Bootcamp

Understanding the world of alternative fuel and advanced vehicles technologies can be difficult and overwhelming for individuals and fleets who are just starting out. The industry is large and changing rapidly, with new developments nearly every day. Knowing where to look, what technologies to invest in, and the best fuel type for the operation can be daunting. This session gets back to the basics. Here, speakers will provide a basis of knowledge for those new to the alternative fuels space or for those looking for a refresher course. Join us and receive your own AFV Expert certification.

- **Cliff Gladstein**, President, Gladstein, Neandross & Associates

9:00 am - 10:00 am

Room 201B

presented by



Electrification
Coalition

WORKSHOPS & FORUMS

Electrifying Fleets Through Aggregated Purchasing

Join the Electrification Coalition for an update on the latest strategies and efforts to aggregate municipal fleet procurement for electric vehicles.

MODERATOR: **Natalia Swalnick**, Director of Electric Vehicle Programs, Electrification Coalition

- **David Dunn**, Division Manager - Fleet & Facilities Management Division, City of Orlando
- **Michael Samulon**, Senior Policy Analyst, Sustainability - Budget & Innovation Team, Office of Los Angeles Mayor Eric Garcetti
- **Mike Domin**, Contract Administrator, Sourcewell

10:00 am - 11:00 am

Room 102A

WORKSHOPS & FORUMS

A Small and Mighty Fleet

We hear in the news almost daily what new measures large corporations and large fleets are taking to deploy cleaner vehicles. But these giant companies are only part of the equation. Smaller fleets make up an overwhelming portion of the transportation network and tend to operate the same assets for longer. For small fleets, maintenance costs, fuel costs, and asset life can be "make or break" issues. Here, panelists will explore the benefits of advanced technologies and alternative fuels for smaller fleets, what it takes for these fleets to deploy such platforms, and the unique challenges that they may experience.

MODERATOR: **Karen El Mann**, Senior Vice President, Programs, Gladstein, Neandross & Associates

- **Joe Korn**, Project Lead, Business Intelligence & Analytics, ARI
- **Darryl Syler**, Director of Fleet Management, City of Dublin, Ohio
- **Dinero Washington**, President and Chief Executive Officer, SporTran

10:00 am - 12:00 pm

Room 203AB

presented by



WORKSHOPS & FORUMS

BSR's Buyer-Supplier Roundtable: Understanding and Evaluating / Assessing the Market for Sustainable Fuels and Clean Technology

Commercial freight transportation is at the cusp of a transition. Sustainable fuels and related technologies are increasingly critical to business success. But which sustainable fuels can be delivered by suppliers today and how will they be scaled over the next few years? How to compare those technologies and match them with specific fleet needs?

The Future of Fuels team will lead an action-oriented discussion on the current and expected availability and application of low-carbon fuels for commercial freight to help fleets understand and compare clean technologies and match them with specific needs. Insights collected during the session will serve as inputs for a guide currently in preparation. Opportunities will also be provided for networking and one on one engagement between buyers and suppliers to address specific challenges.

- **Eric Olson**, Senior Vice President of Advisory Services, BSR
- **Denielle Harrison**, Manager, BSR
- **Lea Farnier**, Associate, BSR

10:00 am - 4:00 pm

Room 104A

WORKSHOPS & FORUMS

Battery Technology Workshop

Take a deep dive into the world of battery technology for transportation. Start off the day with ACT speakers laying the groundwork on battery chemistries, recent breakthroughs, and new trends. Then, look ahead to the future of the market, where battery technology is heading, what future regulations may look like, and what challenges may be faced in the years ahead. Wrap up the day with a panel focused exclusively on energy storage – from thermal management to second life.

10:00 am: Introduction and Overview on Battery Technology

- **Patrick Couch**, Vice President, Technical Services, Gladstein, Neandross & Associates

10:10 am - 11:40 am: Part I: Assessing the Current State of EV Battery Technologies

EV battery technology has come far in the last several years. Range, for light-duty at least, is on track to eliminate the anxiety felt by most and is a practical solution for many operational profiles. Multiple pilots for short distance drayage operations have been underway in the heavy-duty space. As the technology evolves and as more fleets deploy electric vehicles, important real-world data has been generated on battery usage and performance, which is helping to further shape future product development. Here, panelists will explore what we've learned about battery performance, range, advantages of different battery materials, and the evolution of product offerings across weight classes. What are the challenges that fleets need to be aware of? What solutions are out there? And how can current battery technology meet the needs of fleets today, while planning for the future?

- **Dr. Peter Frischmann**, Chief Executive Officer and Co-Founder, Sepion Technologies
- **Abas Goodarzi**, President and Chief Executive Officer, US Hybrid
- **Craig Sieber**, Manager of New Products, Penske Truck Leasing
- **Todd Sloan**, Senior Vice President, Innovation and Global Business Development, Agility Fuel Solutions

11:40 am - 1:00 pm: Lunch

1:00 pm - 2:30 pm: Part II: Assessing the Future of EV Battery Technologies

Interest, attention and growth of the EV market has expanded exponentially in the last few years. While battery technology and range performance has seemed to improve in certain applications, it hasn't moved as far in others. So where do we go from here? Join this session to learn:

- What can be expected for the future growth of EVs and what does that mean in terms of battery supply and pricing?
- Ultra-fast charging infrastructure is already being put in, but when will the vehicles be ready for it?
- How is medium- and heavy-duty battery technology pacing and what are the exciting evolutions?
- How far away are we from solid state batteries and is that the answer we've all been waiting for?

MODERATOR: **Jennifer Wheeler**, Senior Manager, Supply Chain Sustainability, Walmart

- **George Crabtree**, Director of the Joint Center for Energy Storage, Argonne National Laboratory
- **David Finn**, Chief Executive Officer and Founder, Tritium
- **Nathan Hill**, Senior Engineer II, E-Mobility Team, Daimler Trucks North America
- **Roger Gerson**, Director, Advanced Battery Systems, Cummins

2:30 pm - 4:00 pm: Part III: The Circular Economy: Repurposing EV Batteries

We face a significant societal challenge associated with the significant demand across weight classes for transportation electrification: what do we do with the batteries when they have reached the end of their useful life? This session will dive deeper into:

- What are the battery sourcing considerations and supply constraints of EV batteries
- What OEMs and technology providers are doing to repurpose EV batteries
- The opportunities and challenges with batteries and how they can be repurposed and/or recycled
- The market and use cases for second life battery applications

MODERATOR: **Cliff Gladstein**, President, Gladstein, Neandross & Associates

- **Joshua Goldman**, Vice President, Business Development, TransPower
- **Hans Eric Melin**, Founder, Circular Energy Storage
- **Dirk Spiers**, President, Spiers New Technologies
- **Megan Vidal**, Business Development, Energy Systems and eMobility, UL

10:00 am - 4:00 pm

Room 101AB

WORKSHOPS & FORUMS

Connected Vehicle Technology Workshop 2.0

With the emergence of connected technologies, the transportation industry has seen a huge opportunity for improved operational, economic, and environmental performance. The world of connected technologies is broad, including everything from real-time route optimization; predictive vehicle maintenance; and platooning and automated operations. These functionalities and data points can allow for greater fuel efficiency, greater driver safety, and an improved bottom line. But the world of connected fleets can be difficult to navigate without a roadmap. Understanding the data, choosing technologies, and taking advantage of the tools provided can be time consuming and overwhelming for fleets who have never worked on these issues. In this session, attendees will learn about the connected vehicle technologies that are on the market today and how they can be leveraged to maximize performance while improving safety and compliance.

10:00am - 4:00pm: Workshop Introduction, Emcee, and Moderators

- **Spencer Doyle**, Chief Business Development Officer, Noodle.ai
- **Amit Saini**, Vice President - Enterprise AI Service, Noodle.ai

10:10 am - 11:30 am: Connected Vehicle Technology I - OEM Technology Across All Weight Classes

While the implementation of the Federal Motor Carrier Safety Administration ELD mandate dominated the headlines throughout 2018, the commercial truck sector was hard at work continuing to develop a range of innovative new connected vehicle technologies. Join this panel and learn about the latest technologies that come standard with today's commercial fleet vehicles, and how they can be leveraged to reduce costs, maximize uptime and performance, and improve safety and compliance. This session will provide valuable insight into what is now available in the market today, and what is store for the future of this revolutionary trend.

- **Aravind Kailas**, Research and Innovation Manager, Volvo Group
- **Jason Krajewski**, Director - Truck Connectivity, Daimler Trucks North America
- **Rachel Suttle**, Connected Vehicle Program Manager, Hino Trucks
- **Eric Foellmer**, Director of Marketing, XL

11:30 am - 12:00 pm: Keynote Address

- **Sherry Sanger**, Senior Vice President of Marketing, Penske Truck Leasing

12:00 pm - 1:00 pm: Lunch

1:00 pm - 2:30 pm: Connected Vehicle Technology II - Telematics, Sensors, and Other Tech to Maximize Fleet Assets

In the prior session for Connected Technology, attendees had a chance to hear from the OEMs directly on their suite of services for connected technology. In this second part session, fleets will have a chance to hear directly from leading third-party technology companies providing an array of connected tech that can be leveraged to improve fleet management intelligence, efficiency, and asset utilization. Learn from some of the top vendors in telematics, sensors and other areas of connected technology on their service offerings and what these technologies can mean to improve your fleet operations.

- **Beto Dantas**, Vice President of Marketing, Strategy and Innovation, ConMet
- **Jordan Guter**, Associate Vice President, Solutions Engineering, Geotab
- **Joel Torr**, Managing Director, North America, ViriCiti
- **Terry Dell**, Director of Channel Management, Zonar Systems

2:30 pm - 4:00 pm: Connected Vehicle Technology III - Understanding the Use Case and Opportunities of V2G

Vehicle-to-grid (V2G) energy storage technologies hold significant promise as a tool for improving a fleet's total cost of electric vehicle ownership, while also offering load balancing, grid stabilization, and resiliency benefits to the local power grid. For nearly two decades now, V2G technology has lived mainly in the piloting, testing and demonstration phase, with the technology never scaling to provide more widespread commercial use and functionality. Recently V2G deployments, however, are showing increasing promise, especially in use cases like school buses where the vehicle asset remains unutilized during most of the day, on weekends, and for three months in the summer. Join this session to dive deeper into the following areas:

- What can we learn from some of the demonstrations that have already taken at place?
- What are the best use cases for making V2G projects work successfully?
- When will we see this at commercial scale? Are we getting closer?
- What role does the charging infrastructure or network play in V2G?
- What vehicles are capable of V2G?
- What is the short- and long-term impact to the vehicle batteries?
- What implications exist for vehicle manufacturer warranties?
- Are there legal or regulatory hurdles to enable V2G at scale or even in pilots?

- **Clay Collier**, Vice President, Energy Solutions, ChargePoint
- **Marc-André Pagé**, Business Development Director, The Lion Electric Co.
- **Hitesh Soneji**, Senior Engineer, Olivine Inc
- **Facundo Tassara**, Director of Fleet Business Development, Fermata Energy

10:00 am - 4:30 pm

Room 103BC

presented by

FleetOwner

WORKSHOPS & FORUMS

Workforce Development Workshop: Meeting the Vehicle Maintenance Challenge

Technology is evolving rapidly across today's increasingly complex and connected fleet. Many fleets now operate a wide range of vehicle types and classes powered by a variety of gaseous fuels, electricity, or hybrid systems. Those vehicles are coming equipped with more and more sophisticated onboard sensors and components, all producing and sharing data in real time.

This is a watershed moment for commercial vehicle fleets and the suppliers who support them. Unless we take steps together now to ensure we have a skilled workforce to support these new vehicles, the lack of adequate maintenance and operations capability will become a serious obstacle to their successful adoption.

This workshop will begin with an overview of the top alternative fuels and connected technology changes and the specific workforce needs that are accompanying them. A panel discussion including fleets, training professionals, and workforce development leaders on how to develop and keep a trained team to support these evolving needs will follow.

10:00 am - 10:10 am: Welcome and Introduction

- **Reggie Lawrence**, Managing Director, FleetOwner

10:10 am - 11:40 am: Workforce Development Workshop Part I: Best Practices for Successfully Integrating Alternative Fuels and Advanced Technologies into Your Fleet

Natural gas, propane autogas, electric-drive platforms, and a range of parallel and series hybrid propulsion systems have now all been on the market for about a decade. Some first- and early-generation technologies, however, were marred by decreased reliability and corresponding needs for additional maintenance and repair. These maintenance issues defeated early technology adoption efforts at some fleets, while others were able to rise to the challenges and overcome their start-up issues.

The dedicated maintenance teams who put in the time to "iron out the bugs" in those early-generation technologies are now finding the rewards can be substantial, especially in terms of lower total cost of ownership. Join this session to hear from fleets who have "been there, done that" and learn firsthand what were the keys to their success. This session will cover:

- The pain points fleets experienced in the integration or transition into new technology
- How fleets were able to make a culture shift to newer technologies, ensuring vehicle utilization
- How fleets developed the training necessary to support new technologies while still supporting the other traditional technologies in their operations
- Some of the most valuable lessons learned along the way, and how the industry can profit from these lessons today as even newer and more promising technologies - such as electric drive vehicles and fuel cells-- fuel cells -- come to the market

MODERATOR: **Sean Turner**, Chief Operating Officer, Gladstein, Neandross & Associates



- **Mike Hasinec**, Vice President – Maintenance, Penske Truck Leasing
- **David Stumpo**, Executive Director, Southern California Regional Transit Training Consortium
- **Annalloyd Thomason**, Vice President and General Manager, Natural Gas Vehicle Institute
- **John Tiquet**, Fleet Manager, Waste Management

11:40 am - 1:00 pm: Lunch

1:00 pm - 2:30 pm: Workforce Development Workshop Part II: Training for the Electric Vehicle Ecosystem

Whether fleets are choosing to “dip their toe in the water” on electric vehicles (EVs) or are taking the plunge, EVs necessitate special training on a very different set of skills than any of the other alternative power choices to-date. Maintenance technicians, drivers, fuelers and executive management teams are all impacted. Join a panel of experts to learn about the key considerations, challenges, opportunities and solutions available for workforce training when it comes to incorporating EVs into your fleet. Topics will include:

- Operator training to maximize e-miles, range and efficiency
- Low- and high-voltage system maintenance and repair, and technician safety
- EV charging infrastructure use and maintenance
- Critical insights for the fleet management teams responsible for delivering the accurate information on cost per mile and total cost of ownership that will be necessary to guide future fleet asset investment decisions

MODERATOR: **Dan Chien**, Vice President of Business Development, AxleTech

- **John Frala**, Professor of Alternative Fuels Technology, Rio Hondo College
- **Alexandre Lalonde**, Product Specialist- EV Charging Infrastructure, ABB Inc.
- **Anthony Marshall**, Director of Maintenance and Engineering, Transportation Fleet, UPS
- **Billy Wang**, Senior Vice President and General Manager, MaxGen Energy Services

2:45 pm - 4:15 pm: Workforce Development Workshop Part III: Staying Ahead of the Curve with Incumbent and New Worker Training

Commercial vehicles continue to move away from traditional mechanical-based systems. Today, they are becoming more and more like computers on wheels. Connected technology, autonomous and self-driving vehicles, drive-by-wire and other digital-based systems will likewise continue to force the merging of a fleet's vehicle maintenance and IT teams.

This convergence of mechanical and electronic systems is dramatically changing the way we think about and deploy training. It is a time of new questions that require new answers: How can fleets up-skill their current workforce and what should they be looking for in new hires? In a market with already existing technician shortages, how and where can fleets find trained workers? Do the increasingly IT-based systems on today's commercial fleet vehicles present an opportunity to engage the younger and more digitally savvy workforce? This panel explores the ins and outs of incumbent and new worker training in the world of highly sophisticated equipment and operations technologies.

MODERATOR: **Michael Smyth**, Interim Director, National Alternative Fuels Training Consortium

- **Bill Fisher**, Director of Service, TEC Equipment
- **Rudy Le Flore**, Chief Project Consultant, SunLine Transit Agency
- **Matt McLelland**, Innovation Strategist, Covenant Transportation Group

4:15 pm - 4:30 pm: Summary and Closing Remarks

- **Reggie Lawrence**, Managing Director, FleetOwner

12:30 pm - 4:30 pm

Room 203AB

presented by



WORKSHOPS & FORUMS

Help Shape the Future of Regional Freight Movement

In the midst of a driver shortage and a trend toward more “hub and spoke logistics,” fleets are seeing a shift toward more dedicated regional haul routes. And with a new generation of Class 7 and 8 trucks — from everyone from Tesla to Daimler — hitting the market, it’s more important than ever that fleets are up-to-speed on the latest and greatest technology for saving money and reducing emissions. It is in this context that the North American Council for Freight Efficiency (NACFE) is putting together both the fourth guidance report in its series on commercial battery electric vehicles — this one focused on regional day cab tractors and the second Run on Less roadshow, also focused on regional routes. And we want YOUR help!

Join us for a dialogue about what we know so far, what lingering questions and challenges exist, and how the industry is planning to tackle them. Whether you’ve got solutions or lessons learned that you want to ensure make it into the report or you’ve got more questions than answers, you’re invited to make your voice heard as we discuss what fleets need to know in order to keep their drivers happy, while consuming less energy and stay competitive. Join the NACFE teams for a day and help us help the industry!

12:30 pm - 1:45 pm: Keynote Address - What Is Regional and the Alt Fuels Opportunity

- **Keshav Sondhi**, Director, Fleet Engineering and Sustainability, PepsiCo

1:45 pm - 2:30 pm: Panel Discussions on Regional, Electrification, and Connectivity

- **Jake VandeLoo**, Vice President of Equipment Engineering, Schneider
- **Amanda Phillips**, General Manager, OEM Sales, Meritor
- **Rob Ulsh**, Vice President, Dealer and International Sales, Great Dane Trailers
- **Mike McHorse**, Director of Channel Marketing, Freightliner Trucks, Daimler Trucks North America

2:30 pm - 4:30 pm: NACFE Small Group Discussions

NACFE personnel will host multiple rounds of small group discussions concerning electric trucks, charging infrastructure, electric heavy-duty Class 8 tractor total cost of ownership, heavy-duty sleeper tractors, connectivity, detailed planning of NACFE’s Run on Less regional demonstration event, as well as other topics.

1:00 pm - 3:30 pm

Room 102BC

WORKSHOPS & FORUMS

Navigating Fleet Regulations

Fleets are some of the most increasingly regulated entities with a wide-variety of rules targeting specific sectors, weight classes, fuel types, and components. Many of these regulations are pushing fleets toward purchasing newer and cleaner vehicle technologies. But with the wide variety of regulations out there, and from all different levels of government, it can be tough to know where to start with ensuring (and getting ahead of) compliance. This session will explore the current and known future regulations coming down the line that impact fleets and strategies to ensure existing and future compliance. From California’s SB 1 to the CARB Truck and Bus rule, to local airport operation mandates, listen in and learn what’s instore for your operation.

1:00 pm - 2:00 pm: Part I: Reducing Emissions Through New Heavy-Duty Truck Low NOx Standards

Heavy-duty diesel trucks remain one of the largest sources of regional air emissions in urban areas. Subsequently, both the California Air Resources Board (CARB) and the Environmental Protection Agency (EPA) are now working to adopt new low NOx engine standards for heavy-duty trucks. The timing of these regulatory efforts are not currently aligned, with CARB expected to take action in late 2019 and EPA expected to follow in 2020. The impacts of these new requirements will be significant. Join this panel discussion to get the inside track on these important issues, including:

- What are the individual standards that are being proposed from CARB and EPA?
- Can industry meet this standard by either of these timelines? And at what cost?
- What does meeting either standard mean for fleets and product choices?
- What is the industry’s Alternative Proposal and how does it differ from the one from CARB and EPA?
- What is the pathway to getting one standard?
- What is the forward role of the several gaseous fueled medium- and heavy-duty engines already certified to the 0.02 g/bhp-hr NOx standard?

MODERATOR: **Dr. Matt Miyasato**, Deputy Executive Officer, Science & Technology Advancement, South Coast Air Quality Management District

- **Timothy French**, Board Member, Truck and Engine Manufacturers Association (EMA)
- **Kim Heroy-Rogalski**, Mobile Source Regulatory Development Branch Chief, California Air Resources Board
- **Ben Machol**, Professional Engineer Manager, Technology & Partnerships Office, Environmental Protection Agency

2:15 pm - 3:30 pm: Part II: Regulations and Policy Driving Zero and Near Zero Emission Vehicle Technology

Unfortunately for fleets, there is no longer a simple single federal standard or requirement when it comes to navigating requirements to use lower emission technology. A multitude of programs, policies, requirements and other regulations are being developed at the state and local levels that are driving the development and use of zero and near-zero emission technology, a trend that will not only continue, but grow in the years ahead. This session will explore how and where such programs are being put into place, how they will impact suppliers and end-users, and how these efforts will continue to shape the future of advanced transportation technology. This panel will cover:

- How CARB's Zero Emission Vehicle (ZEV) mandates and being expanded to cover medium- and heavy-duty vehicles, and adopted by other states around the country
- Enforcement of CARB's Truck & Bus regulation by restricting registration renewals in 2020
- The development of facility based measures to reduce mobile source emissions from warehouse, distribution centers, ports, and intermodal facilities
- New regulations that will require zero emission transportation refrigeration units (TRUs, or reefers)
- Zero and near zero emission requirements for port drayage trucks and container handling equipment

MODERATOR: **Chris Shimoda**, Vice President of Government Affairs, California Trucking Association

- **Tony Brasil**, Branch Chief, Transportation and Clean Technology Branch, California Air Resources Board
- **Sarah Rees**, Assistant Deputy Executive Officer - Planning, Rule Development & Area Resources, South Coast Air Quality Management District
- **Heather Tomley**, Acting Managing Director, Port of Long Beach

1:00 pm - 5:30 pm

Room 204

presented by



WORKSHOPS & FORUMS

Hydrogen and Fuel Cells for Freight Workshop

The California Hydrogen Business Council is hosting a half-day workshop as a follow up to the workshop held a year prior. This workshop will cover cargo handling at distribution centers, ports and on-road medium- and heavy-duty goods movement. As operators around the world begin to consider adopting next-generation technologies in their fleets, careful consideration of capabilities and requirements is needed to determine if the technology is suited to application duty-cycles, location and use. Fuel cell electric trucks and equipment are capable of performing the heavy workload of commercial and industrial fleets and offer similar operational logistics to diesel fleets with no tailpipe emissions other than water. Join the California Hydrogen Business Council and expert industry presenters to learn more about the emerging hydrogen and fuel cell solution!

1:00 pm - 1:05 pm: Welcome and Overview

- **Jeff Serfass**, Executive Director, California Hydrogen Business Council

1:05 pm - 1:35 pm: Dual Keynote – What Are Hydrogen Fuel Cells & Why Do We Need Them?

Hydrogen for Transportation 101 – A Crash Course

The Port Community Perspective

- **Dr. Jack Brouwer**, Professor, National Fuel Cell Research Center, University of California, Irvine
The Societal Need for Hydrogen and Fuel Cells
- **Jesse Marquez**, Executive Director, Coalition for a Safe Environment
Air Quality Improvement - The Port Community Perspective

1:35 pm - 2:20 pm: One for One: Technology Platform Comparison

An in-depth, objective analysis of fuel cell vehicles and comparison to diesel, natural gas and battery electric from a performance and total cost of ownership perspective.

MODERATOR: **Tim Sasseeen**, Business Development Manager, California, Ballard Power Systems

- **Al Cioffi**, Business Development, Plug Power
- **Takehito Yokoo**, Advanced Fuel Cell Senior Executive Engineer, Toyota Motor North America

2:20 pm - 3:15 pm: OEM Perspective

MODERATOR: **Nico Bouwkamp**, Technical Program Manager, California Fuel Cell Partnership

- **Mark Freymueller**, Vice President Commercial Vehicle Eco friendly Business Development, Hyundai Motor Company
- **Jesse Schneider**, Executive Vice President, Technology, Hydrogen & Fuel Cells, Nikola Motor Company

3:15 pm - 3:40 pm: Networking Break

3:40 pm - 4:20 pm: Reports from the Field: Operator Experiences

Different fuel cell vehicle operators in both on-road and off-road give their value proposition, updates on their demonstration projects with their perception of the path to commercialization.

- **Tony Williamson**, Director, Compliance & Sustainability, Total Transportation Services, Inc.

4:20 pm - 5:20 pm: Fast Refueling: Hydrogen Infrastructure

Discussion of challenges and solutions for fueling various hydrogen applications.

- **Rob Del Core**, Director, Business Development, Fuel Cell Power Systems, Hydrogenics
- **Dave Edwards**, Director and Advocate for Hydrogen Energy, Air Liquide
- **Steve Symanski**, Director of Business Development, Projects and Government, Nel Hydrogen

5:20 pm - 5:30 pm: Wrap Up and Action Items

- **Cory Shumaker**, Development Specialist, California Hydrogen Business Council

3:00 pm - 5:00 pm

Room 102A

presented by



WORKSHOPS & FORUMS

Propane Autogas Answers Fleet Needs!

With near-zero emission engine technology now available and renewable propane autogas starting to hit the market, 2019 promises to be a breakout year for the propane autogas industry. Hear from propane industry experts about today's latest vehicle technology, renewable propane, and programs to support deployments of propane autogas as a sustainable and cost-effective fleet solution.

5:00 pm - 7:45 pm

Room 104 Foyer and Promenade Plaza

presented by



NETWORKING

Fleet Awards Reception

Join ACT Expo and the Propane Education and Research Council (PERC) to celebrate the industry's leading fleet operators. Attend the special awards ceremony to recognize fleets that demonstrate true leadership in clean transportation. Enjoy cocktails, gourmet bites, and live entertainment while networking with award-winning operators across all fleet applications.

8:00 am - 9:30 am

Room 104A

WORKSHOPS & FORUMS

Accelerating Clean School Bus Procurement: A Roundtable Discussion

Large upfront costs and competing budget priorities often mean that the wheels on the school bus tend to go 'round long past the vehicle's useful life. But with an array of zero and near zero emission options now on the market, significant incentives focused on these technologies, and the typical fixed-route operation of a school bus, there is great opportunity to replace old and inefficient buses with this exciting clean fuel technology. Hear from several school bus fleet operators who have been able to leverage partnerships, state and local funding, and creativity to overcome the barrier of high costs for these ultra-low emission school buses. While incentives, and the decrease in fuel and maintenance costs has helped to improve the bottom line, the new vehicles also provide tremendous benefits to the children on the bus and the residential neighborhoods within which their vehicles operate. Join a group of school bus fleet operators, technology providers, and funding program administrators for a roundtable discussion on removing barriers to school bus replacement and the opportunity for alternative fuel vehicles.

MODERATOR: **Kylie Taylor**, Senior Associate, Gladstein, Neandross & Associates

- **Steve Lake**, Director of Transportation, Southwest Allen County Schools
- **Tomas Ortiz**, Air Resources Engineer, California Energy Commission
- **Lilia Montoya**, Deputy Director of Transportation, Los Angeles Unified School District
- **Matthew Belasco**, Director of Maintenance, Operations, and Transportation, Pittsburg Unified School District

8:00 am - 9:30 am

Room 101AB

WORKSHOPS & FORUMS

From Mandate to Asset Management: Urban Mobility "Culture Shift" Roundtable

Setting bold policy goals (both at the corporate and government levels) is critical for deploying alternative fuel vehicles but the goals are not met simply with a signature on the mandate. Vehicle procurement and utilization are key steps in the process—the challenges of which are often overlooked. But how does an organization ensure fleet managers and operators are aware of the mandates and are open to purchasing and using AFVs? How should their approach to fueling and fleet management change? Once the vehicles are procured, how does the organization ensure the assets are utilized to achieve ROI? In this roundtable session, attendees and panelists will explore ways to shift the culture around alternative fuel vehicles of all kinds.

MODERATOR: **Evan Speer**, Chief, Office of Fleet and Asset Management, California Department of General Services

- **Marcela Arizpuro**, Director of Transportation and Food Services, Amphitheater Public Schools
- **Peter Moulton**, Energy Policy Section Manager and Bioenergy Coordinator, Washington State Department of Commerce
- **Michael Samulon**, Senior Policy Analyst, Sustainability - Budget & Innovation Team, Office of Los Angeles Mayor Eric Garcetti
- **Daniel Thompson**, Vice President of Operations and Co-Founder, eIQ Mobility Inc.

8:00 am - 9:30 am

Room 102BC

presented by



WORKSHOPS & FORUMS

Women in ACT: Implementing Innovation with a Diverse Workforce

In an era of rapidly shifting technology, demographics, and policy trends, it is critical that the advanced clean transportation industry have effective leadership to successfully navigate this changing transportation paradigm. While many industries are struggling to attract the necessary talent and react to this dynamism, the female workforce presents an underutilized, high-potential talent pool from which to draw. Research has shown that diversity within companies, from entry level to c-suite, to boards of directors, leads to higher performance, higher returns, and higher employee satisfaction. Hear from women leaders in the public and private transportation sectors who have made meaningful impacts and transformed the advanced clean transportation market. Learn how they got their start, what motivates them to continue, and how businesses and organizations can attract more women to increase the diversity of perspectives, improve the bottom line, and clean up emissions.

8:00 am - 8:05 am: Introduction

- **Sarah Gallagher**, Vice President, Communications and Marketing, Gladstein, Neandross & Associates

8:05 am - 9:30 am: Women in ACT: Implementing Innovation with a Diverse Workforce

- **Kim Okafor**, Electric Vehicle Manager, Trillium
- **Mari Roberts**, Senior Director of Transportation, Frito-Lay
- **Sherry Sanger**, Senior Vice President of Marketing, Penske Truck Leasing
- **Rebecca Shelby**, Environmental Regulatory Engineer, Ford Motor Company

8:00 am - 9:30 am

Room 103BC

WORKSHOPS & FORUMS

Zero-ing in on Refuse: Exploring the Potential for EV to Meet Refuse Collection Demands

The stop-and-go, return-to-base routes of refuse trucks have been held up as an ideal sector for early electric vehicle deployments. However, up until recently, very few demonstrations of this technology have come to fruition. With the advancement of medium- and heavy-duty electric drivetrains, early-stage electric refuse truck demonstration projects are becoming a reality. In parallel, leading OEMs are coming to the market with fully electrified refuse collection truck chassis, together with a bullish perspective on the potential of such a powertrain to meet the rigorous demands of this market. In this session, hear from vehicle manufacturers and end-users on the performance, needs, challenges, and considerations of deploying electric refuse vehicles. Panelists will explore the current and future states of the market, experience with existing demonstrations and early deployments, and the potential for commercial product availability in the near-term. Attendees will take away from this session a much better understanding of the options available in the marketplace today and in the near-future.

MODERATOR: **Marty Tufte**, Corporate Fleet Director, Waste Management

- **Curtis Dorwart**, Refuse Product Manager, Mack Trucks, Inc.
- **John Gerra**, Director of Business Development, BYD Motors North America
- **Bill Kahn**, Principal Engineer, Peterbilt
- **Nate Baguio**, Vice President of Sales, The Lion Electric Co.

10:00 am - 10:10 am

Grand Ballroom

GENERAL SESSION

Conference Opening

- **Erik Neandross**, Chief Executive Officer, Gladstein, Neandross & Associates

10:10 am - 10:20 am

Grand Ballroom

GENERAL SESSION

Welcome Address

- **Jay Craig**, Chief Executive Officer and President, Meritor

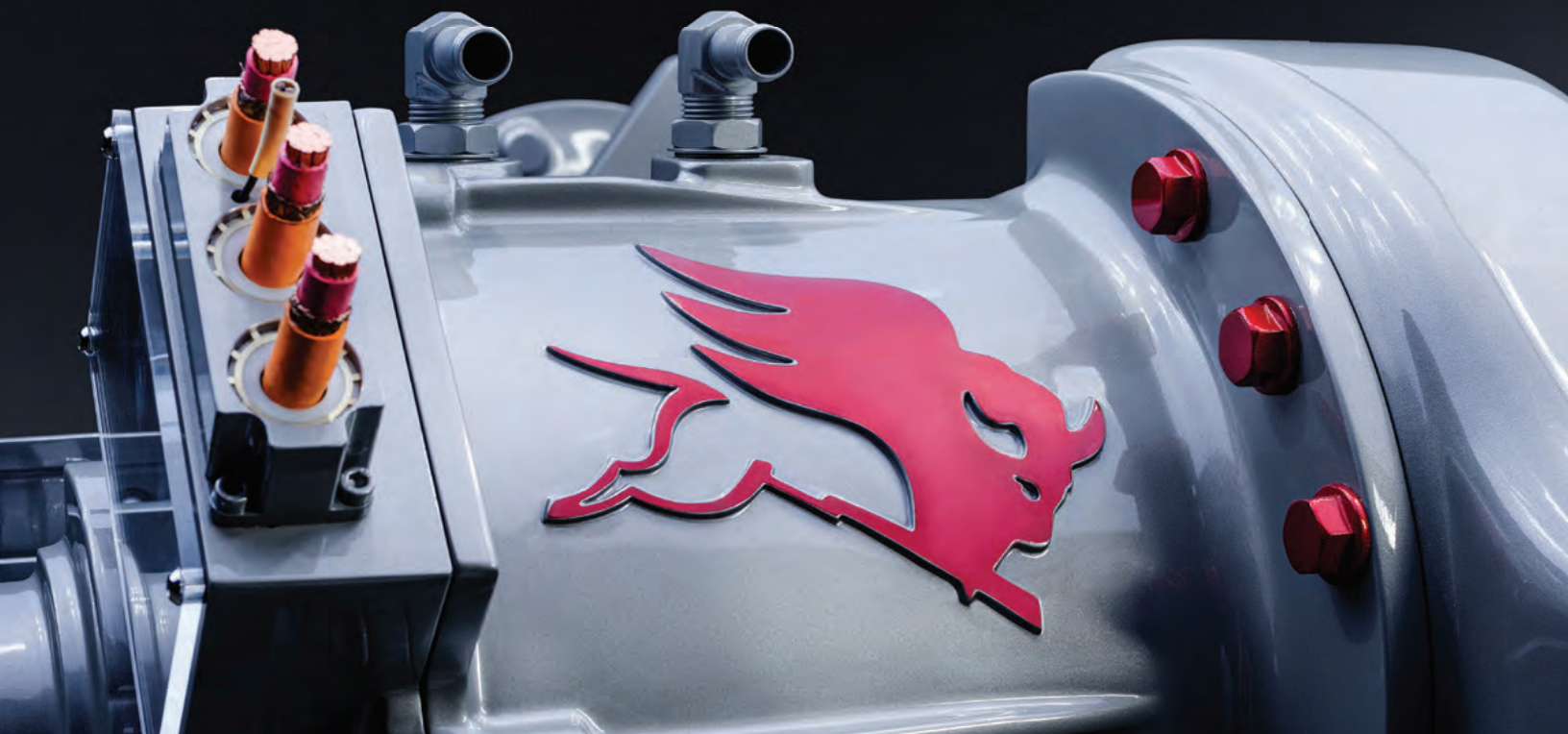
10:20 am - 10:40 am Grand Ballroom	GENERAL SESSION <h2>Special Recognition Ceremony</h2> <p>The South Coast Air Quality Management District (AQMD) has long been one of the nation's leading public agencies in the arena of technology advancement for low emission commercial vehicle technology. Joined by its commercial fleet and heavy-duty truck OEM partners, the South Coast AQMD will host this special ceremony to recognize a significant milestone in the development of zero emission truck technology.</p> <p>Introduction:</p> <ul style="list-style-type: none"> • Hon. Janice Hahn, Board Member, South Coast Air Quality Management District
10:40 am - 11:00 am Grand Ballroom	GENERAL SESSION <h2>Keynote Address</h2> <p>Hear from an industry visionary about the future of advanced clean transportation for medium- and heavy-duty trucking. As environmental regulations increase around the globe, Nielsen will share the steps Daimler is taking to lead the development of zero-emission electric trucks and drivetrains and ultra-low-emission natural gas trucks.</p> <ul style="list-style-type: none"> • Roger Nielsen, President and Chief Executive Officer, Daimler Trucks North America
11:00 am - 12:15 pm Grand Ballroom	GENERAL SESSION <h2>Trending: The State of Alternative Fuels and Connected Tech</h2> <p>Vehicles are at the dawn of a new era - one characterized by an array of zero and near zero emission technologies. From full battery electric trucks, buses, and other equipment to ultra-low emission heavy-duty natural gas engines, fleets have a dizzying array of technologies to choose from. Local, state, and federal regulators have noticed these advancements and are charging ahead with low-NOx rule-making efforts both at the national level and in California. Meanwhile, leading progressive fleets are making big investments in these zero and near zero emission technologies which, when combined with renewable fuels, can provide a vehicle platform that has virtually no emissions. Listen in as key stakeholders, from OEMs to infrastructure experts, to leading fleets, provide an in depth comparative analysis of vehicles and technologies. Panelists will explore what it means to quantify the actual environmental performance of the fuel and vehicle technologies, what it means to install supporting infrastructure, and how things like fixed fuel cost deals can accelerate the market.</p> <p>MODERATOR: Erik Neandross, Chief Executive Officer, Gladstein, Neandross & Associates</p> <ul style="list-style-type: none"> • Paul Rosa, Senior Vice President of Procurement and Fleet Planning, Penske Truck Leasing • Ike Brown, Vice-Chairman, President and Co-Owner, NFI Industries • Peter Voorhoeve, President, Volvo Trucks North America • Trevor Milton, Chief Executive Officer, Nikola Motor Company
12:00 pm - 1:45 pm Expo Hall A	NETWORKING <h2>Lunch in the Expo Hall</h2> <p>Refuel with lunch in the exhibit hall.</p>
12:00 pm - 7:00 pm Expo Hall ABC	NETWORKING <h2>Expo Hall Open</h2> <p>The hall will stay open all afternoon, offering attendees an uninterrupted look at the expansive showcase of technologies, fuels, policies, and organizations driving innovation and sustainability on our roadways.</p>
5:00 pm - 7:00 pm Expo Hall ABC	NETWORKING <h2>Grand Opening Reception</h2> <p>Enjoy a cocktail while networking with your fellow attendees in the exhibit hall.</p>

THERE'S SOMETHING ON THE HORIZON.

A change. A shift in the way we think about business. And in the way we all do business. It's a move from what's traditional and expected. A move toward more innovation, more technology and more ideas. It's something surprising. Something unexpected. And something exciting. It's a future that's electric today and even more tomorrow. A future that delivers performance without dependence.

A future that is both an evolution and a revolution. It's something that will meet the needs of companies large and small. A continuation of leadership in engineering and advanced technology. It's a change that's better for the bottom line and for the place we live. A change that's green. And blue. Introducing **Blue Horizon**. The future of commercial vehicle systems. Brought to you by Meritor.

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8:00 am - 9:30 am

Grand Ballroom

presented by



WORKSHOPS & FORUMS

EV Charging Infrastructure Workshop I: Planning for EV Charging Solutions in Fleet Operations

While much of the industry has given us increasing technology options for fleet electrification, perhaps the harder problem to solve for is how we build out new fueling infrastructure to support these vehicles: along corridors, in fleet depots, and in other critical locations. Given the vastly different nature of electricity from any other kind of fuel, there are a number of different considerations that go into charging solutions that are foreign concepts to fleets. From the utility side to construction to network providers, this session will cover all you need to know about designing your fleet's charging plan. The following topics will be discussed:

- Power grid and delivery system
- Key terms and terminology
- Service equipment 101
- Real estate requirements
- MD & HD EVSE providers
- Charging methods and options
- Energy storage
- Cost of fuel
- LCFS credits
- Costs
- Development timelines
- Permitting process

MODERATOR: **Paul Stith**, Director, Strategy & Innovation, Black & Veatch

- **Patrick Couch**, Vice President, Technical Services, Gladstein, Neandross & Associates
- **Sean Yentsch**, Director of Facilities, Penske Truck Leasing
- **Michael Hughes**, Chief Commercial and Revenue Officer, ChargePoint, Inc.
- **Katie Sloan**, Director of eMobility, Southern California Edison

8:30 am - 10:00 am

Room 103BC

BREAKOUT SESSION

1.1 Biofuels Bonanza: What Fleets Need to Know

Technology and fuel solution providers are rapidly developing systems to capture the energy from organic systems, creating the cleanest, domestically produced fuels on the market, and paving the way for an efficient and more secure energy future. This session will highlight companies, end users, and projects that are making the seemingly futuristic leap to these next generation biofuels, including a discussion on the implementation challenges, the regulations and policies encouraging this revolution (especially outside of California), and the economic environment that will be required for this trend to take hold.

MODERATOR: **Julia Levin**, Executive Director, Bioenergy Association of California

- **Jerrold Mounce**, Director of Fuel Management, J.B. Hunt Transport Services, Inc.
- **Tucker Perkins**, President and Chief Executive Officer, Propane Education & Research Council
- **Jon Scharingson**, Executive Director of Sales & Marketing, Renewable Energy Group
- **William Zobel**, Vice-President, Business Development and Marketing, Trillium

8:30 am - 10:00 am

Room 101AB

BREAKOUT SESSION

1.2 Micromobility and Connected Tech: Solving Chronic Challenges with Creative Solutions

With an aging population, increased traffic congestion, shifting housing patterns, and the multitude of mobility options that exist, transit and municipal agencies are faced with the growing challenge of providing transportation services in the most efficient and effective way possible. Micromobility and connected technologies may be just what the industry is looking for to address these needs. From electric scooters to smart phone apps, listen in as leaders from across the nation discuss innovative approaches to the mobility paradigm shift.

MODERATOR: **Gene Oh**, President, BikeHub

- **Gordon Bauer**, NSF Graduate Student Research Fellow, University of California, Berkeley
- **Jordan Gildersleeve**, Senior Business Development Associate, Jump Uber
- **Larry Yermack**, Strategic Advisor, Cubic Transportation Systems
- **Doug Hausladen**, Director of Transportation, Traffic & Parking, City of New Haven, CT

10:00 am - 11:00 am

Grand Ballroom

WORKSHOPS & FORUMS

EV Charging Infrastructure Workshop II: Tackling Cost

From the installation process to daily fueling, the cost of on-site electrification can creep up. Fleet managers have to consider costs associated with everything from the power needs of their site, the local utility's capability to support their fueling needs, whether or not electrical upgrades will be needed, station installation, network subscription, demand charges, and many others. So how can a fleet best plan for these costs and mitigate them? Join a panel of experts as they tackle the big questions surrounding EV charging costs and the plethora of strategies to manage it.

MODERATOR: **Mike Roeth**, Executive Director, North American Council for Freight Efficiency

- **Pete Ballard**, Lead Financial Analyst and Energy Manager, Chicago Transit Authority
- **Kim Okafor**, Electric Vehicle Manager, Trillium
- **Chris Nelder**, Manager, Mobility Transformation, Rocky Mountain Institute
- **Vic Shao**, Founder and Chief Executive Officer, AMPLY

10:00 am - 6:00 pm

Expo Hall ABC

NETWORKING

Expo Hall Open

Check out the exciting exhibits while exploring the show floor. The hall will stay open all day, offering attendees an uninterrupted look at the expansive showcase of technologies, fuels, policies, and organizations driving innovation and sustainability on our roadways.

10:30 am - 12:00 pm

Room 103BC

BREAKOUT SESSION

2.1 Zero and Near Zero Emission Freight Facilities Projects

Across California and the nation, the freight landscape is shifting. Bold, transformative projects are being deployed, incorporating revolutionary, advanced transportation technologies to ultimately eliminate tailpipe emissions from what has traditionally been the largest source of regional criteria and greenhouse gas emissions: goods movement. From full battery electric trucks, locomotives, forklifts, and class 8 hydrogen fuel cell vehicles to ultra-low emission heavy-duty natural gas engines, the technology of the future is here and leading fleets are putting these into practice. This session will showcase daring, transformative projects from freight facilities nationwide that are modeling the future of goods movement.

MODERATOR: **Naveen Berry**, Assistant Deputy Executive Officer, South Coast Air Quality Management District

- **Tony Williamson**, Director, Compliance & Sustainability, Total Transportation Services, Inc.
- **Emily Conway**, Fleet Sustainability Manager, PepsiCo
- **Keith Brandis**, Vice President, Product Planning, Volvo 3P - Volvo Group Trucks Technology
- **Troy Musgrave**, Director of Process Improvement, Dependable Supply Chain Services
- **Mitchell McMahon**, Senior Manager, Fleet and Facilities, Anheuser-Busch InBev

10:30 am - 12:00 pm

Room 102BC

BREAKOUT SESSION

2.2 Innovative Fleet Applications in Light- and Medium-Duty Urban Mobility

In urban areas, as congestion increases, there is increasing demand on cost effective methods to reduce emissions, stabilize fuel expenses, and deploy innovative new transportation choices. Whether these technologies are last-mile delivery vehicles, utility vehicles, passenger cars, shuttles, or school buses, fleets have a growing array of vehicle technology to choose from that combines the best offerings in drivetrains and connected technology. Fleet managers who are looking to invest in new technology can often find themselves overwhelmed with options and the fast pace of change. This session will feature a variety of vehicle manufacturers, suppliers, and fleets who will provide a close look at the available technologies to help you navigate the diverse terrain of options to find the best fit for your fleet's unique needs.

MODERATOR: **Barry Carr**, Coordinator, Clean Communities of Central New York

- **Lorenzo Caprilli**, Senior Vice President, Sales Marketing, Electra Meccanica
- **Stephen Ellis**, Manager, Fuel Cell Vehicle Marketing, American Honda Motor Company
- **Susan McSherry**, Director of Alternative Fuel Programs, New York City Department of Transportation
- **Dave Newton**, Commercial Director, Americas and EMEA, Ingevity
- **Dallas Fox**, Engineer, Toyota Motors North America

11:00 am - 12:00 pm

Grand Ballroom

WORKSHOPS & FORUMS

EV Charging Infrastructure Workshop III: The Network

Well developed EV charging solutions are critical to a successful EV fleet operation. Networked charging infrastructure can provide an array of helpful information to today's data-driven fleet operator, in addition to providing easy reporting capabilities for grants and incentives. Finding the right solution to meet a fleet's near-term needs and long-term EV growth goals is critical to ensure the efficiency of the initial capital investment. Join a panel of experts to discuss—and maybe even debate!—the value proposition of software services on top of the charging equipment. This panel will discuss:

- Is it appropriate to get a network solution and what are the hardware capabilities without a network?
- What is the added cost and value-add of a software service?
- What are the general capabilities that are offered with networks, such as user groups, different pricing, and management functionality?
- What is the good, the bad, and the ugly of Open Charge Point Protocol integration?
- What other capabilities can the software provide, such as load balancing, mitigation of demand charges, renewable and energy storage integration, and vehicle to grid?

MODERATOR: **Matthew Stephens-Rich**, Electric Vehicle Specialist Project Manager , Electrification Coalition

- **Will Barrett**, Director of Sales, ClipperCreek, Inc,
- **Mufi Ghadiali**, Chief Executive Officer and Founder, Electriphi Inc.
- **Jordan Ramer**, Chief Executive Officer and Founder, EV Connect
- **Warren Williams**, Director of EV Business Development, FuelForce- Multiforce Systems

12:00 pm - 2:00 pm

Expo Hall A

NETWORKING

Lunch in the Expo Hall

Join ACT Expo and our exhibitors for lunch in the exhibit hall.

2:00 pm - 3:30 pm

Grand Ballroom

presented by



WORKSHOPS & FORUMS

EV Charging Infrastructure Workshop IV: Mobile, Wireless & Automated Charging

Throughout the EV Charging Infrastructure Workshop, fleets have been given the opportunity to learn the basics of charging, the cost considerations, and the advantages and disadvantages of a network solution, but there are many other aspects fleets can consider when choosing to electrify. Options for fleet EV charging extend far beyond mounted and complex installations for DC fast chargers and Level 2 stations. There are an array of wireless and automated chargers as well as mobile and temporary options to give fleets who may face constrained electrical infrastructure even more flexibility. Attend this session to find out:

- Wireless: What are the benefits and considerations surrounding wireless charging from efficiency of the station to cost and ease? What have been some of the early experiences surrounding the deployments of wireless charging solutions?
- Automated: What is ISO 15118 and what does it mean for fleets? Where do the vehicle OEMs stand on developing compatibility for plug and charge to enable seamless experience and billing and what role can fleets play in adoption?
- Mobile & Temporary: What are the use cases for early and continued use of mobile and temporary charging solutions? How are mobile charging stations being integrated as part of a more comprehensive fleet-wide charging infrastructure? What are the capabilities of mobile charging solutions in terms of charging standards supported, necessary voltage, and variety offered?

MODERATOR: **Andrew Cullen**, Senior Vice President, Fuels & Facility Services, Penske Truck Leasing

- **Andrew Daga**, President and Chief Executive Officer, Momentum Dynamics
- **Michael Masquelier**, Chief Executive Officer and Chief Technology Officer, WAVE
- **Barton Sidles**, Director of Corporate and Business Development, Hubject Inc.
- **Arcady Sosinov**, Founder and Chief Executive Officer, FreeWire Technologies Inc.
- **Desmond Wheatley**, President, Chief Executive Officer and Chairman, Envision Solar

2:00 pm - 3:30 pm

Room 104A

BREAKOUT SESSION

3.1 Greening the Shared Fleet

Rental and car-share opportunities provide a great way to increase exposure and awareness of alternative fuels and offer unique opportunities to maximize vehicle utilization in a fleet environment. This session will explore some of the key projects and programs incorporating advanced technologies and alternative fuels in the sharing economy and how municipalities have incorporated innovative sharing economy practices to improve vehicle uptime and overall fleet economics.

MODERATOR: **Stephen Russell**, Coordinator, Massachusetts Clean Cities

- **Richard Battersby**, Assistant Director, Oakland Public Works, City of Oakland
- **Chris Nordh**, Senior Director, Advanced Vehicle Technologies & Energy Products, Ryder System, Inc.
- **Aric Ohana**, Co-Founder, Envoy
- **Jonathan Palacios-Avila**, Chief Executive Officer, StratosFuel, Inc.
- **Terry O'Day**, Chief Strategy Officer and Executive Vice President, innogy eMobility US

2:00 pm - 4:00 pm

Room 101AB

BREAKOUT SESSION

3.2 Medium- and Heavy-Duty Electric Truck Technology Showcase

Medium- and heavy-duty truck electrification seems to be getting all of the attention these days. But with the plethora of news releases on new product launches, it can be tough to know what technologies are real, reliable, and commercially available. Join the one-stop-shop showcase where a variety medium- and heavy-duty truck OEMs, drivetrain manufacturers, and component suppliers and others provide a close look at the available technologies to help you find those that best fit your fleet's unique needs.

2:00 pm - 3:00 pm: MD and HD Component Electrification Showcase

A number of established component and Tier 1 suppliers are bringing a range of advanced technology to the market to further electrify the medium- and heavy-duty sector. Hear from these leading suppliers about their latest product offerings to improve your fleet's operating, financial and environmental performance.

MODERATOR: **Tammie Bostick**, Executive Director, Utah Clean Cities

- **Steve Slesinski**, Director of Global Product Planning, Dana Incorporated
- **Pedro Garcia**, Director, Advanced Technologies, Product Management, Meritor
- **Eric Foellmer**, Director of Marketing, XL

3:00 pm - 4:00 pm: MD and HD OEM Showcase

In spite of more moderate and sustained oil pricing in the last four years, investment in advanced technologies and alternative fuel powertrains is at an all time high. Hear from leading North American truck OEMs about what's driving this investment, their latest zero and near-zero emission products, and what to expect in the coming years.

MODERATOR: **Erik Neandross**, Chief Executive Officer, Gladstein, Neandross & Associates

- **Dr. Andreas Juretzka**, Senior Lead, e-Mobility, Daimler Trucks North America
- **Wesley Slavin**, Marketing Manager, Peterbilt
- **Brian Lindgren**, Director of Research & Development, Kenworth

Agenda - Thursday, April 25

General Sessions ■
Breakout Sessions ■
Workshops & Forums ■
Networking Opportunities ■

2:00 pm - 4:00 pm

Room 102BC

BREAKOUT SESSION

3.3 School, Transit, and Shuttle Bus Technology Showcase

Transit operations have been at the forefront of alternative fuel and technology innovation and have become a proven testing ground for these trends. But how do fleet managers know what is substantive, and what isn't yet fully commercial? Join the one-stop-shop showcase where a variety of school, transit, and shuttle bus manufacturers provide a close look at the available technologies to help you find those that best fit your fleet's unique needs.

2:00 pm - 3:00 pm: Advanced Clean School Bus Showcase

MODERATOR: **Tim Shannon**, Director of Transportation, Twin Rivers Unified School District

- **Mark Childers**, Powertrain and Technology Sales Manager, Thomas Built Buses
- **Ed Dumire**, Business Development Manager - Western Region, Roush Clean Tech
- **Matt Essex**, Director of School Bus Sales, Adomani

3:00pm - 4:00pm: Advanced Clean Transit and Shuttle Bus Showcase

- **Jim Castelaz**, Founder and Chief Executive Officer, Motiv Power Systems
- **Marc Manning**, Senior Director, Vehicle Engineering & Acquisition, LA Metro
- **Ryne Shetterly**, Vice President of Sales and Marketing, GreenPower Motor Company Inc.

4:00 pm - 6:00 pm

Expo Hall ABC

NETWORKING

Expo Hall Networking Reception

Don't miss your last chance to network with your fellow attendees, enjoy a drink or two, and take a final spin around the Expo Hall during ACT's closing reception.

Join the conversation



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8:00 am - 9:00 am

Room 104A

WORKSHOPS & FORUMS

Funding Fundamentals: Funding 101

With billions in funding available for fleets to install infrastructure and replace vehicles and equipment, knowing where and how to start is half the battle toward getting funds for a project. Grant funding can be complex to find, apply, secure and implement. In this one-hour crash course, GNA will provide an entry level review of how to find funding, what you need to apply, what you need to submit a successful proposal, and what you should be prepared for when you win. Upon completion of the Funding Fundamentals session, attendees will earn a GNA Funding Fundamentals Certificate of Completion to show that you have been verified by the funding experts to understand the basics associated with pursuing funds.

- **Brianna Lawrence**, Senior Associate, Gladstein, Neandross & Associates

8:00 am - 12:00 pm

Room 103BC

WORKSHOPS & FORUMS

Greening Aviation: Funding, Equipment & Vehicles

The aviation industry plays a significant role in the global economy, providing reliable and timely transport of people and goods around the world. However, the vehicles that support this massive industry—including ground support equipment, and passenger transport shuttles—are a large source of metropolitan emissions, impacting air quality, noise levels, and public health. Not to mention, diesel costs and impending regulations are proving costly to continue to rely on across airport operations. With 33% of airline operating costs going to fuel, switching to domestically produced alternative fuels has the potential to significantly lower and stabilize a significant ongoing expenditure. But like any business, reliability of the vehicle technology is paramount, and ensuring that the equipment you replace is just as effective as a traditionally fueled vehicle is essential. These alternative fuel vehicles frequently cost more than their diesel counterparts, so the first part of this workshop emphasizes the millions of dollars of funding available today for deploying alternative fuel and advanced technologies at airports, from ground support equipment to aircraft to airport shuttle buses. The second part of the workshop will explore everything operators need to know about deploying alternative fuels and advanced vehicles technologies in their airport operations—from available vehicle technologies to impending rules and regulations impacting adoption. Part three will address the plethora of alternative fuel and advanced vehicle technologies on the market to increase reliability, fuel efficiency, and emissions reductions.

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8:00 am - 9:00 am: Greening Aviation Workshop Part I: Funding and Regulatory Drivers

The aviation industry plays a significant role in the global economy, providing reliable and timely transport of people and goods around the world. However, the vehicles that support this massive industry—including aircraft, ground support equipment, and passenger transport shuttles—are a large source of metropolitan emissions, impacting air quality, noise levels, and public health. Not to mention, fuel costs and impending regulations are proving costly to continue to rely on across airport operations. Join a discussion on the top funding and regulatory drivers that are pushing airport operators to reduce emissions and purchase more advanced vehicle and energy technology.

MODERATOR: **Jon Leonard**, Senior Vice President, Gladstein, Neandross & Associates

- **Timothy Obitts**, Chief Operating Officer, General Counsel, National Air Transportation Association
- **Lana Van Marter**, Commercial Development Manager, Aviation Solutions Renewable Products, Neste
- **James Duffy**, Alternative Fuel Availability Manager, California Air Resources Board

9:15 am - 10:30 am: Greening Aviation Workshop Part II: Sustainability Takes Flight with Leading Airlines

With 33% of airline operating costs going to fuel, switching to domestically produced alternative fuels has the potential to significantly lower and stabilize a significant ongoing expenditure. But whether the fuel is being used in the aircraft or new vehicles being purchased for ground support uses, reliability of the technology is paramount. Join a discussion with some of the leading airlines who have been charting a path toward sustainability in aircraft via sustainable aviation jet fuel demonstrations as well as through ground support equipment and other efforts. This panel will explore:

- The driving factors for airlines pursuing alternative fuels and advanced vehicle technologies
- The lessons learned to-date from being first movers in demonstrations
- The future plans and endeavors to increase the use of alternative fuels
- The barriers that may exist to mainstream deployment of alternative fuels within airlines

MODERATOR: **Haldane Dodd**, Head of Communications, Air Transport Action Group

- **Alison Bird**, Manager, Environmental Engineering, FedEx
- **Craig Schiller**, Manager, Sustainable Aviation, Rocky Mountain Institute
- **Aaron Stash**, Senior Manager, Environmental Strategy and Sustainability, United Airlines

10:45 am - 12:00 pm: Greening Aviation Workshop Part III: From the Ground Up - Holistic Emissions Reductions at Airports

Airports serve an essential role in keeping people and goods moving, frequently necessitating a large volume of vehicles—from aircraft to ground transportation and equipment—and energy usage to handle what are frequently 24/7/365 operations. Several airports throughout the nation have taken large steps to curtail the noise, traffic, and emissions coming from this air travel, even incorporating holistic visions for reducing emissions at the facility-wide level as well. Join us in a discussion with some of the nation's foremost sustainability leaders at airports as they discuss their path toward sustainability and the barriers they had to overcome to reach some of their successes. This session will also delve into their future plans and pathways to reduce emissions in their own fleets as well as from operators at airports.

- **Tamara McCrossen-Orr**, Chief Planning Officer, Office of Sustainability, Los Angeles World Airports
- **Liza Milagro**, Resilience & Sustainability Manager, Hartsfield-Jackson Atlanta International Airport
- **Kevin Staples**, Environmental and Sustainability Coordinator, Salt Lake City Department of Airports

8:00 am - 3:00 pm

Room 102BC

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WORKSHOPS & FORUMS

The Future of Clean Cargo Handling Equipment

PMSA has partnered with ACT Expo to provide a forum for terminal operators and other port stakeholders to learn about the future of clean port equipment, including the latest regulatory projections, technological advancements, and infrastructure challenges.

8:00 am - 8:30 am: Opening Remarks

PMSA welcome and overview of the current regulatory landscape and state of advanced clean cargo handling equipment technology.

- **Thomas Jelenic**, Vice President, PMSA

8:30 am - 9:45 am: Advanced Clean CHE: End-User Case Studies

Significant progress has been made in the last 12 to 24 months as demonstrations and deployments have launched of new low- and zero-emission cargo handling equipment (CHE) technologies, including yard trucks, forklifts, top picks and everything in between. Hear from pioneering end-users about their project efforts, experiences, successes, key learnings, and challenges in deploying and operating advanced CHE technologies.

- **Mike Pagel**, Manager, Industry Projects and Measures, BNSF Railway
- **Paul Gagnon**, Vice President, SSA

9:45 am - 10:45 am: Advanced Clean Yard Hostler Showcase

A wide array of zero and near zero emission yard trucks being developed, tested, and deployed throughout the West Coast. With a range of options including ultra-low NOx gaseous renewable fuels to battery electric, it can often be difficult to tell which technologies are the best fit for an operation, reliable, cost-effective, and ready for "prime time." Listen in as suppliers provide a closer look the range of commercially available technology solutions for yard trucks in this technology showcase session.

- **Mike Saxton**, Chief Commercial Officer, Orange EV
- **Patrick Seeberg**, Senior Product Manager, Advanced Technologies, Meritor
- **Jack Symington**, Business Development Associate, BYD Motors

11:00 am - 12:00 pm: Zero Emission Intermodal Equipment

Like its lighter-duty cousins in the MHE space, the array of heavy-duty cargo handling equipment (CHE) used in rail yards, marine container terminals, and other intermodal facilities is also getting a clean tech overhaul. Electric motors and batteries are beginning to replace the off-road diesel engines that have traditionally dominated this market. In addition to electric yard tractors, fully electric top handlers and reach stackers are now starting to make it to market, thus providing operators with the ability to reduce emissions as well as operating, fuel and maintenance costs. Is it enough to provide an overall lower total cost of ownership? Listen to suppliers and end users provide a closer look their results to date, costs and performance, and the technology solutions available in the marketplace today and in the near-term.

- **Larry Schmitz**, Principal Founder and Chief Executive Officer, Terminalift LLC
- **Michael Simon**, President and Chief Executive Officer, Transpower
- Speaker TBA*, Taylor

Agenda - Friday, April 26

General Sessions ■
Breakout Sessions ■
Workshops & Forums ■
Networking Opportunities ■

Room 101AB

11:00 am - 12:00 pm: Zero Emission Material Handling Equipment

From pallet jacks to forklifts, warehouse equipment is getting a clean tech overhaul. Not only are the range and capabilities of electric material handling equipment (MHE) options increasing, but so too is the ability to improve operational efficiency and the bottom line. Learn about the latest technology, commercial availability, and performance of today's zero emission MHE.

- **Robert Cruess**, Chief Operating Officer, ZeroNox
- **Fernando Corral**, Vice President of Sales, Plug Power
- **Brian Rippie**, Director of Material Handling, BYD

Arena Parking Lot

12:00 pm - 1:30 pm: Ride & Drive and Lunch

Take a spin in the advanced clean yard trucks and CHE options you've heard so much about and enjoy lunch before the final afternoon session.

Room 102BC

1:30 pm - 3:00 pm: Funding & Total Cost of Ownership Workshop

Delivering operational performance, reliability, lower emissions and an equivalent or lower total cost of ownership is the name of the game when it comes to the success of new clean technology options for moving freight. To drive towards a better TCO, hear from a range of experts on how operators can identify and apply for a range of funding opportunities and other innovative financing opportunities to offset both CapEx and OpEx costs. Traditional grants and incentives, new utility programs to support infrastructure upgrades, and low carbon fuel standard (LCFS) and renewable identification numbers (RIN) credits will all be covered.

- **Eleanor Johnstone**, Senior Associate, Gladstein, Neandross & Associates
- **Vicki White**, Technology, Implementation Manager, South Coast Air Quality Management District
- **Nathan Dean**, Air Pollution Specialist, California Air Resources Board



Fleet Awards

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Tuesday, April 23, 5:00 pm - 7:45 pm

- In It for the Long Haul
- Carrier
- Transit & Mobility
- Public Fleet
- Private Fleet

9:00 am - 12:00 pm

Room 104A

WORKSHOPS & FORUMS

Funding Workshop

This add-on Funding Workshop will provide an insider's look at some of the top funding programs, such as the Volkswagen Settlement, and strategies fleets should be thinking about in order to pursue funding at the local, state and federal level. Experts will provide an overview of the funding predictions across the U.S. and Canada, including the following:

- Geographic diversity: what states have established programs and which ones are starting to create opportunities for the first time?
- Funding levels: what kinds of funding levels are we seeing for projects?
- Funding types: where can you find the best vehicle replacement funding versus research, development and demonstration funding?

A special emphasis will be made on emerging funding programs, such as investor owned utilities and Volkswagen, providing attendees with a roadmap for how to access competitive grant dollars.

9:00 am - 10:25 am: Part I - Accessing VW Mitigation Funds

Over two years after the Partial Consent Decree (i.e. VW settlement) was established, funding has begun to roll out in states across the U.S. This has presented a previously unmatched opportunity to accelerate the deployment of clean transportation projects. But with 50 different plans, in 50 different stages, with multiple programs each, it can be difficult to know where to begin in tracking and applying for funding. This panel will provide insight on the distribution of the Volkswagen funding, where it currently stands, and what the next steps are in the allocation process:

- How can you determine if your fleet or technology project is competitive?
- How are states distributing funds? What fuels and technologies are states most focused on?
- How can you be prepared to compete for these funds?
- How can you be involved in the process to accelerate your likelihood of receiving funding?

MODERATOR: **Joe Annotti**, Vice President, Programs, Gladstein, Neandross & Associates

- **Debbie Swartz**, Pollution Prevention Program Analyst, Michigan Department of Environmental Quality, Waste Management and Radiological Protection Division
- **Steve McCannon**, Deputy Director, Regional Air Quality Council, Colorado
- **Eric Brown**, Air Pollution Specialist, California Air Resources Board

10:35 am - 12:00 pm: Part II - Utility Incentives for EVs

There are over 3,300 utilities in the United States, with nearly every one boasting different rate structures and different plans for addressing the growing EV market. So how are fleets, particularly those operating across multiple regions, meant to manage this? And how can they take advantage of the plethora of incentives offered through these entities? Join this panel to learn how you can best leverage utility rates and other incentives to finance electric vehicle deployment.

MODERATOR: **Jim Cade**, Vice President, Fleet Services, Ruan

- **Lisa Arellanes**, Senior Manager, Business Development & Partnerships, Southern California Edison
- **Mark Conolly**, Program Manager, Gladstein, Neandross & Associates
- **Kellen Schefter**, Senior Manager of Sustainable Technology, Edison Electric Institute

9:00 am - 12:00 pm

Pine Avenue

NETWORKING

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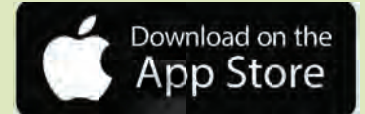


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This image shows a full page of blank, lined paper. It features approximately 30 evenly spaced horizontal grey lines across its entire width, typical of notebook or legal stationery. The paper is otherwise completely empty, with no margins, text, or other markings.

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