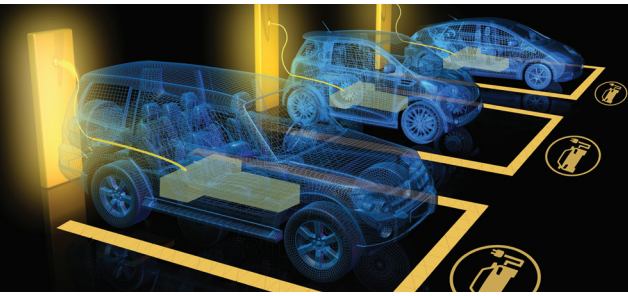




# EVENT-AT-A-GLANCE HYBRID AND ELECTRIC VEHICLE TECHNOLOGIES SYMPOSIUM

Tuesday, February 19 - Thursday, February 21



## TUESDAY

### VEHICLE ELECTRIFICATION POLICY AND MARKET

**8:15 a.m.-9:00 a.m.**  
**California's Emission Reduction Challenges and the Need for Technology Innovation**  
Joshua Cunningham, CARB

**9:00 a.m.-9:30 a.m.**  
**Moving Beyond Early Adopters: Changes in Market, Vehicle Use, and Charging Behavior in California 2010-2018**  
Gil Tal, UC Davis

**9:30 a.m.-10:00 a.m.**  
**A Consumer Perspective on Transportation Electrification**  
Shannon Baker-Branstetter, Consumer Reports

**10:00 a.m. Break**

### ENABLING LONG-RANGE EV'S

**11:00 a.m.-11:30 a.m.**  
**180-Mile Charge in 10 Minutes: Utilizing Solid-State-Transformer Technology for Micro-Grid-Capable Extreme Fast Chargers**  
Charles Zhu, Delta Electronics

**11:30 a.m.-12:00 p.m.**  
**The Future of Global PEV Range and Electric Consumption Test Procedures - Is It a Path to Success**  
Bryan Roos, General Motors

**12:00 p.m.-12:30 p.m.**  
**Paths and Barriers to Extreme Fast Charging EV Batteries**  
Dave Robertson, Argonne National Lab

**12:30 p.m. Lunch**

### ELECTRIFIED VEHICLE INFRASTRUCTURE

**1:30 p.m.-2:00 p.m.**  
**Title TBD**  
Tyson Eckerle, California Governor's Office

**2:00 p.m.-2:30 p.m.**  
**Advances in California Hydrogen Fueling Infrastructure**  
Matt McClory, Toyota Motor Engineering & Mfg NA Inc.

**2:30 p.m.-3:00 p.m.**  
**The Advanced Smart Grid: Edge & Mobile Power Driving Sustainability**  
Andres Carvallo, CMG

**3:00 p.m.-3:30 p.m.**  
**A Pioneer's Journey to Build the Nation's Largest Public DC Fast Charging Network**  
Ivo Steklac, EVgo

**3:30 p.m. Break**

**4:00 p.m.-4:30 p.m.**  
**Hydrogen and Fuel Cell Vehicles - The New Clean Energy Revolution**  
William Elrick, California Fuel Cell Partnership

**4:30 p.m.-5:00 p.m.**  
**Title TBD**  
Mark Duvall, Electric Power Research Institute

**5:00 p.m.-5:30 p.m.**  
**Plug & Charge Overview**  
Barton Sidles, Hubject, Inc.

**5:30 p.m.-6:15 p.m.**  
**Expert Panel Discussion: Infrastructure**

**6:30-8:30 p.m. Networking Reception sponsored by Toyota**

## WEDNESDAY

### OEM - HEV'S

**8:00 a.m.-8:15 a.m.**  
**HEV Course Offerings**  
SAE Instructor: Saeed Siavoshani, Siemens

**8:15 a.m.-8:45 a.m.**  
**Engineering a "No Compromise" Solution for the 2020 Explorer Hybrid**  
Enio Gomes, Ford Motor Company

**8:45 a.m.-9:15 a.m.**  
**Development of the All-New 2019 Toyota Rav4 Hybrid**  
Hideaki Yaguchi, Toyota Motor North America, Inc. R&D

**9:15 a.m.-9:45 a.m.**  
**Honda's Third-Generation Two-Motor Hybrid System for 2018 Accord Hybrid**  
Naritomo Higuchi, Honda R&D Americas, Inc.

**9:45 a.m.-10:15 a.m.**  
**Toyota New Global Architecture 2.0L Engine**  
Kazunori Irifune, Toyota Motor North America, Inc. R&D

**10:15 a.m. Break**

### OEM - HEV'S AND PHEV'S

**10:45 a.m.-11:15 a.m.**  
**Overview of 2020 Explorer Hybrid HV Energy Storage and Component Design**  
Brett Hinds, Ford Motor Company

**11:15 a.m.-11:45 p.m.**  
**Development of the Two-Motor Hybrid Powertrain for the New INSIGHT**  
Noritaka Yamaguchi, Honda

**11:45 p.m.-12:15 p.m.**  
**Bolt and Beyond - Electrification Next Steps at GM**  
Goro Tamai, General Motors

**12:15 p.m. Lunch**

### OEM - EV'S

**1:30 p.m.-2:00 p.m.**  
**xEV Marketplace Evolution - Keeping CCS Modern**  
Jeff Samalot, BMW

**2:00 p.m.-2:30 p.m.**  
**Toyota Project PORTAL - ZERO emission Class 8 Truck Powertrain**  
Takehito Yokoo, Toyota Motor North America, Inc. R&D

**2:30 p.m.-3:00 p.m.**  
**Technical Presentation TBD**  
Speaker TBD, Kia Motors America, Inc.

**3:00 p.m. Break**

### OEM - DISRUPTORS

**3:30 p.m.-4:00 p.m.**  
**The Attackers Perspective**  
Peter Savagian

**4:00 p.m.-4:30 p.m.**  
**NIO Electric SUV Platform: Electrified Powertrain and Unique Charging Strategies**  
Rick Rajaie, NIO, Inc.

**4:30 p.m.-5:00 p.m.**  
**Using Vehicle's Electric Power Outside of the Vehicle**  
Satoru Shinzaki, Honda R&D Americas, Inc.

**5:00 p.m.-6:00 p.m.**  
**Expert Panel Discussion: The Calm Before the Storm?**

**6:00 p.m. End of Day 2**

## THURSDAY

**7:00-8:15 a.m. Breakfast Roundtables Sponsored by Ford Motor Company**

### ALTERNATIVE VEHICLE APPLICATIONS

**8:30 a.m.-9:00 a.m.**  
**Electrification of Commercial Vehicles**  
Gary Horvat, Navistar

**9:00 a.m.-9:30 a.m.**  
**Electricity Consumption of Electric Bus on the EKO 1 Line in Belgrade (Serbia) in Different Periods of the Year**  
Slobodan Misanovic, GSP Belgrade & University of Kragujevac

**9:30 a.m.-10:00 a.m.**  
**Which BEV Powertrain? Cost and Efficiency Analysis of Different Powertrain Technologies**  
Ajay Lukha, Yasa, Ltd.

**10:00 a.m. Break**

### ELECTRIFIED POWERTRAIN SYSTEM & COMPONENTS

**10:30 a.m.-11:00 a.m.**  
**E/E-Architecture Trends and Powertrain Controllers**  
Nityananda Hadya, Bosch

**11:00 a.m.-11:30 a.m.**  
**Valeo Electrification Vision - From 48V to High Voltage**  
Daniel Benchetrite, Valeo

**11:30 a.m.-12:00 p.m.**  
**Through-the-Road Hybrid Demonstrator with In-Wheel Motors**  
Benjamin Hibberd, MAHLE Powertrain LLC

**12:00 p.m. Lunch**

### ELECTRIFIED POWERTRAIN SYSTEM & COMPONENTS

**1:30 p.m.-2:00 p.m.**  
**Contamination Control for Electrified Powertrains**  
Michael Harenbrock, Mann-Hummel

**2:00 p.m.-2:30 p.m.**  
**Sparking Safety: Pyrotechnics in Powertrain**  
Leyton Munoz, Hirtenberget Automotive Safety GmbH & Co KG

**2:30 p.m.-3:00 p.m.**  
**Higher Reliability for in-Vehicle 48V Power Nets with Arcing Detection System**  
Ali Sarafraz, SEI ANTech-Europe GmbH (SUMITOMO Electric Group)

**3:00 p.m. Break**

### ESS - ADVANCES IN AND BEYOND LI-ION

**3:30 p.m.-4:00 p.m.**  
**Mobility for Tomorrow: Propulsion Systems Today and Tomorrow**  
Patrick Lindemann, Schaeffler

**4:00 p.m.-4:30 p.m.**  
**Technology Value for Hybrid and Plug-in Vehicles**  
Sean Osborne, The ITB Group, Ltd.

**4:30 p.m.-5:00 p.m.**  
**A New Higher Power Density Battery Cell for Full Hybrid Vehicles in 2019**  
Bob Taenaka, Ford Motor Company

**5:00 p.m. End of Symposium**