



# EVENT-AT-A-GLANCE TRANSMISSION AND DRIVELINE TECHNOLOGIES SYMPOSIUM

October 9-10, 2018

## October 9 TUESDAY

### 8-8:30 a.m. Opening Ceremony and Keynote

Grande Ballroom

8:00 a.m. *Opening Remarks*, Steve Wesolowski  
8:05 a.m. *Keynote Presentation: The Future of Propulsion Systems*, Patrick Lindemann, President Transmission Sys & eMobility, Schaeffler Group USA Inc.

### 8:30-10 a.m. Executive Panel Discussion: Electrified Powertrains

Grande Ballroom

Moderator: Larry Nitz, Executive Director, General Motors  
Panelists:  
- Michael Duhaime, Global Director, FCA US LLC  
- Patrick Lindemann, President Transmission Sys & eMobility, Schaeffler Group USA Inc.  
- Goro Tamai, Electrified Propulsion System Design Technical Fellow, General Motors  
- Scott Weber, Director Alternative Energy Solutions, Consumers Energy

### 10-10:30 a.m. Networking Break

#### E-Mobility

Grande Ballroom

10:30 a.m. *Emobility Status Updates*, Marcus Steinberger, Schaeffler Group USA Inc.  
11 a.m. *Development of Highly Integrated Transmissions for Future Electric Vehicles*, Roberto Gay, Oerlikon Graziano SpA  
11:30 a.m. *E-Drive: Highly Integrated and Efficient*, Wayne Petzke, AVL Powertrain Engineering Inc.

#### Integration of AWD into the Vehicle

Judea Ballroom

10:30 a.m. *SAE Drivetrain Standards Committee Update*, Michael Kocevar, JTEKT  
11 a.m. *Using Formal Methods to Manage Complexity of Safety-Critical Applications in An Easy-To-Use Embedded Software Development Tool Environment*, Alexander Mayer, ETAS, Inc.; Udo M. Rieber, ETAS GmbH  
11:30 a.m. *Electric Torque Vectoring for Hybrid and Electric Vehicles*, Paul Moubarak, Ford Motor Company

### Noon-1 p.m. Networking Lunch

#### Spotlight on New Transmissions

Grande Ballroom

1 p.m. *P2 Hybrid Drive Modules with Minimal Impact to Powertrain Length*, Mark Buchanan, BorgWarner  
1:30 p.m. *Matching CVT hybridization with compliancy and application*, Alexander Serrarens, Punch Powertrain nv  
2 p.m. *Ford 8F Transmission*, Paul Oldani, Ford Motor Company

#### Path to More Efficient Driveline Systems/AWD Testing

Judea Ballroom

1 p.m. *Seamless-Shift Two-Speed eAxle with Torque Vectoring*, Mollie Renshaw, GKN  
1:30 p.m. *USCAR - Axle Efficiency and Spin Loss*, Timothy Schumaier, FCA, US LLC

### 2:30-3 p.m. Networking Break

#### Path to More Efficient Transmissions and Driveline Systems

Grande Ballroom

3 p.m. *Modernizing Corrosion Methods to Protect the Electrified Transmissions of Tomorrow*, Christopher Prengaman, Lubrizol  
3:30 p.m. *Low Viscous Lubricants: Impacts to Bearing Design and Key Factors to Optimize Drivetrain Performance*, Sean Leahy, The Timken Company  
4 p.m. *Friction Reduction Methods*, Matt Frary, Schaeffler Group USA Inc.

#### E-Mobility

Judea Ballroom

3 p.m. *48V Electric All Wheel Drive*, Joseph Mastie, BorgWarner PowerDrive Systems  
3:30 p.m. *Application of Computer-based Design Synthesis in Electric Drive Product Development*, TBA, Dana, Inc.  
4 p.m. *Which BEV powertrain? Cost and efficiency analysis of different powertrain technologies*, Tom Hillman, YASA, Ltd.

### 4:30-5:30 p.m. Networking Reception

## October 10 WEDNESDAY

### 8:30-10 a.m. Executive Panel Discussion: Autonomous/ADAS Driving

Grande Ballroom

Moderator: William (Bill) Rotramel, Director of Vehicle Integration and Development, AVL  
Panelists:  
- Swami Gopalswamy, Professor of Practice, Texas A&M University  
- Ann M. Schlenker, Director, Center for Transportation Research, Argonne National Laboratory  
- Mayank Agochiya, Managing Director, FEV Consulting Inc.  
- Mark Chaput, Vice President of Facility Operations and Construction American Mobility Center

### 10-10:30 a.m. Networking Break

#### Autonomous

Grande Ballroom

10:30 a.m. *Combined, Objective Testing of ACC Performance and Powertrain Calibration*, Thomas Mueller-Werth, AVL  
11 a.m. *Transmission and Driveline Considerations within the Increasingly Connected and Automated Vehicle Technology Landscape*, Eric Rask, Argonne National Laboratory  
11:30 a.m. *Infrastructure Enabled Autonomy - Autonomy-As-A-Service*, Swami Gopalswamy, Texas A&M University

#### Spotlight on New All Wheel Drive Systems

Judea Ballroom

10:30 a.m. *Considerations for Torque Vectoring in AWD Clutch System*, Michael Kocevar, JTEKT; Mitchell Holland, McLaren Engineering  
11 a.m. *New 2-Speed Electro-Mechanical On-Demand Transfer Case Design*, Larry Pritchard, BorgWarner

### Noon-1 p.m. Networking Lunch

#### Controls and Simulation

Grande Ballroom

1 p.m. *Benefits of Adaptive Control in AWD Systems*, Dana  
1:30 p.m. *Presentation*, Keith Lang, FCA US LLC  
2 p.m. *Calibration Methods for Shift and Driving Strategies*, Thomas Wellmann, FEV

### 2:30-3 p.m. Networking Break

#### Emerging Technologies and Market Trends

Grande Ballroom

3 p.m. *Presentation*, Tom Murphy, Ward's AutoWorld  
3:30 p.m. *The AWD Market and Its Expectations*, Michael J. Palecek, General Motors

**TECHNICAL SESSION**

**NETWORKING OPPORTUNITY**

### EXHIBIT HOURS

Tuesday 10 a.m.-5:30 p.m.  
Wednesday 10 a.m.-2:30 p.m.

### REGISTRATION HOURS

Monday 3-5 p.m.  
Tuesday 7 a.m.-5 p.m.  
Wednesday 7:30 a.m.-Noon

As of October 3, 2018 | Subject to Change Dolo