

# All Wheel Drive Vehicle Symposium and Ride & Drive Event

August 20-21, 2008  
Ann Arbor Marriott Ypsilanti at Eagle Crest  
Ypsilanti, Michigan, USA

## Wednesday, August 20

- 7:00 a.m. Registration
- 8:00 a.m. Opening Remarks  
*John Miller*, SAE International
- 8:30 a.m. Fuel Efficient Driveline Solutions for AWD/4-Wd Applications  
*Mircea Gradu*, Chrysler LLC  
*Mike Kirk*, Chrysler LLC
- 9:15 am. Discussion of the Market and Outlook for AWD  
*Paul Lacy*, Global Insight
- 10:00 a.m. Networking Break

### Design and Modeling

- 10:30 a.m. An OEM Discussion of AWD  
Panelist:  
*Mircea Gradu*, Chrysler LLC  
*Greg Nilsen*, GM  
*Andy Perakes*, Ford
- 11:15 a.m. Differential Logic: Managing Wheel Speed  
*Chris Bartus*, Schaeffler Group USA Inc.
- 12:00 p.m. Networking Lunch
- 1:30 p.m. NexTrac™ FWD/AWD Coupling: From Development to Production  
*Chris Cook*, BorgWarner TorqTransfer Systems
- 2:15 p.m. High-Dynamic Powertrain Testbed – The Tool for the Road to Rig  
*James Hill*, AVL LIST GmbH
- 3:00 p.m. Networking Break

### Stability Control and Vehicle Dynamics

- 3:30 p.m. Torque Vectoring, Rear Active Steering and Electric Hybrids  
*Anupam Sharmat*, Magna Powertrain
- 4:15 p.m. Modeling and Testing of a Traction Control System Applied to the Challenge X Competition Vehicle  
*Kerem Bayar*, Ohio State University  
*Michael Arnett*, General Motors

5:00 p.m.                      Networking Reception

## Thursday, August 21

7:00 a.m.                      Registration

8:00 a.m.                      Opening Remarks  
*John Miller*, SAE International

### Energy Efficiency

8:30 a.m.                      All Wheel Drive Energy Efficiency  
*Dr. Vladimir F. Vantsevich*, Lawrence Technological University  
*Charles G. Stuart*, American Axle & Manufacturing Inc.

9:15 a.m.                      Minimizing the Fuel Economy Impact of AWD  
*Ken Wydick*, BorgWarner TorqTransfer Systems  
*Don Hughes*, Chrysler LLC

10:00 a.m.                     Networking Break

10:30 a.m.                     Driving Dynamics and Hybrid Combined in the Torque-Vectoring Device  
*Tobias Lueck*, IAV Automotive Engineering Inc.

11:15 a.m.                     Investigation of a Secondary Electric Drive on the Dynamics of an AWD Vehicle  
*Noel Mack*, Magna Powertrain

12:00 p.m.                     Networking Lunch

### Lubrication and Oil and Friction Reduction

1:30 p.m.                      Systems Approach to Lubricant Design for Future AWD Applications  
*Scott Halley*, Lubrizol Corporation

2:15 p.m.                      Application of Fluid Design to Performance Optimization of Powertrains  
*Eric Froboese*, Shell Global Solutions (Deutschland)

3:00 p.m.                      Networking Break

3:30 p.m.                      DuPont™ Vespel®  
*Volker Plehn*, DuPont Automotive

4:15 p.m.                      All Wheel Drive Standards Update  
*Andreas E. (Andy) Perakes*, Ford Motor Company, Powertrain Research & Advanced Engineering

5:00 p.m.                      Networking Reception