Powertrain Strategies for the 21st Century: Preparing for the Midterm CAFE Assessment

“Focus on the Future”
UM Automotive Research Conferences

WELCOME!

Link to Presentations Will Be Sent This Weekend

Bruce M. Belzowskki
Automotive Analysis
bbl@umich.edu
## Affiliates Members and Research Partners

### IT Organizations
- Oracle Corporation
- IBM
- HP
- Siemens-PLM

### OEMs
- General Motors
- Toyota Tech Center
- Nissan Tech Center
- Ford Motor Company
- Chrysler LLC

### Government/NGOs
- NREL / EPA
- NSF
- Motor Carrier
- Energy Foundation
- The Hewlett Foundation
- National Resources Defense Council
- Union of Concerned Scientists
- CALSTART
## Affiliates Members and Research Partners

### Suppliers
- Chevron
- Visteon
- Denso
- Dana
- Delphi
- Peterson Spring
- Continental
- TRW
- Valeo

### Suppliers
- Michelin
- Continental
- JCI
- BorgWarner
- Yazaki
- Eaton
- BASF
- Dow
- Bosch
Upcoming UMTRI-AA Conferences

- **September 10, 2014 (Wednesday):** *The Business of IT: Transforming the Organization and the Vehicle.* Our 6th annual conference on how IT innovation is changing the auto industry. The first half of the conference will focus on how IT is change automotive organizations, and the second half will focus on IT’s effect on the vehicle.

- **November 12, 2014 (Wednesday):** *Inside China: Understanding the Current and Future Chinese Automotive Industry.* Our 6th annual China conference focuses on our continuing research on the world’s largest auto industry. We try to provide a variety of perspectives on the industry including government, domestic and foreign manufacturers and suppliers, labor, environment, and consumers in order to provide an accurate vision of the future trends of the industry.
Upcoming UMTRI-AA Conferences

The UM Alumni Discount

Alumni who sign up in advance for five conferences in a row receive a $250 discount
AM Presenters

- **Gary Horvat**, Vice President of Powertrain, Denso Corporation
- **Matti Vint**, Engineering R&D Director, Powertrain Systems, Valeo
PM Presenters

• **Brandon Schoettle**, Project Manager, UMTRI’s Human Factors Group

• **Michael Olechiw**, Director of Light Duty Vehicle and Small Engine Center at the US Environmental Protection Agency’s National Vehicle and Fuel Emissions Laboratory

• **Ryan Keefe**, Operations Research Analyst, U.S. Department of Transportation’s Volpe National Transportation Systems Center
AM Schedule

- 9am
  - Bruce Belzowski
  - Gary Hovat
  - Matti Vint

- 10:20am-10:40am  Break
  - Luke Tonachel

- 11:15am-Noon  AM Session Q&A

- Noon-1:30pm  Lunch
PM Schedule

- 1:30pm
  - Brandon Schoettle
  - Michael Olechiw

- 2:30pm-2:40pm    Break

- 2:40pm
  - Ryan Keefe

- 3:15pm-4:00pm    PM Session Q&A

- 4:00pm    Adjourn
Conference Questions

• How are suppliers supporting manufacturers as they work to meet their 2017 and 2025 goals?

• What trends do suppliers see in their customer’s requests for new powertrain technologies?

• What technologies do suppliers see as the most important in meeting future CAFE goals?

• Have suppliers seen their manufacturer customers changing their criteria about what technologies they consider purchasing from suppliers?
Conference Questions

• How are the manufacturers doing in meeting their current and future CAFE goals?

• Are there issues outside of manufacturers’ control that can have dramatic effects on their ability to reach their CAFE goals?

• How do environmentalists view the current CAFE regulations and the progress manufacturers have made?

• Is there potential for California to re-assert its regulatory power based on CO2 or other emissions in the short or longer term?
Conference Questions

• How is the industry doing in terms of fuel economy and emissions since the introduction of the new CAFE regulations?

• Is their overall improvement leveling off or is it continuing to improve at a steady rate?

• What are the key principles that the government will use to measure the capability of the manufacturers to meet their CAFE goals?

• Will the decision be made based on the overall industry’s capability or will it be based on individual companies’ capabilities?
Conference Questions

• Will NHTSA and EPA work together to come up with a single decision during the mid-term assessment or will separate decisions be made? How will the final decision be made?

• What approaches are NHTSA and EPA using for the mid-term assessment?

• Is there a possibility that the 2025 goal will actually be increased based on what the government sees in the market and from the manufacturers during the mid-term assessment?
Powertrain Strategies for the 21st Century:
Preparing for the Midterm CAFE Assessment

“Focus on the Future”
UM Automotive Research Conferences

WELCOME!

Link to Presentations Will Be Sent This Weekend

Bruce M. Belzowski
Automotive Analysis
bbl@umich.edu