Sustainable Supply Chains: How New Mobility Strategies and Technologies Are Changing Goods Movement

“Focus on the Future”
UM Automotive Research Conferences
Annual “New Mobility Session”
in collaboration with UM-SMART

WELCOME!

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### Automotive Futures Affiliate Program

#### Affiliate Members

- Argonne National Labs
- BorgWarner Inc.
- Bosch Corporation
- Denso Corporation
- FCA LLC
- Ford Motor Company
- ITS America
- Oracle Corporation
- UAW-Ford
- Valeo Corporation
## Automotive Futures

### Research Partners

#### Suppliers
- BASF
- BorgWarner
- Bosch
- Chevron
- Continental
- Denso
- Dana
- Delphi
- Dow
- Eaton
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#### Suppliers
- JCI
- Lear
- Magna
- Means
- Michelin
- Peterson Spring
- TRW
- Yazaki
- Visteon
- Valeo

#### Consultants
- AT Kearney
- AVL
- FEV
- McKinsey
- Ricardo
- Roland Berger
Automotive Futures
Affiliate Program

Recent Affiliate Members

FCA
Ford Motor Company
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Thank you for your support!
Sustainable Supply Chains: How New Mobility Strategies and Technologies Are Changing Goods Movement

Sponsor

Zip Xpress

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Current Research Programs

- Powertrains
  - 2014 Powertrain Strategies for the 21st Century Survey (Sponsor: Affiliates)
    - Report will be mailed to Affiliates next week. Participants in two weeks.
  - Total Cost of Ownership: Comparing Diesel and Gas Vehicles (Bosch)
    - Based on resale value of 30K vehicles sold through Mannheim auctions in 2012 / 2013
    - Report available
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Current Research Programs

• ITS
  • Stuck in Traffic: Analyzing Real Time Traffic Capabilities of Personal Navigation Devices and Traffic Phone Applications
    • Final report available
  • Integrated Mobile Observations: Micro-level weather reporting using cell phones in MDOT vehicles (Sponsor: MDOT and FHWA)
    • Report will be available in March.
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Current Research Programs

• ITS
  • Roadway Evaluation Project: Measuring road roughness via accelerometers in cell phones mounted in MDOT vehicles
    • Final report available

• Deploying Safety Technologies in Commercial Vehicles
  • Familiarity and penetration currently and in the future of: Forward Collision Warning / Lane Departure Warning / Blind Spot Detection / ESC / Vehicle Communications
    • Final report available (Sponsor: ITS America)
• Visiting Researchers:
  • Janghwan Shin (Korea): LG
    • Focus on the future trends in vehicle batteries: What will be the next generation vehicle battery?
    • Supporting the next Powertrain Strategies for the 21st Century conference in July, 2016 on the theme of next generation vehicle batteries
  • Sergio Goncalves Muniz (Brazil): Federal Technology University of Parana
    • Focus on global efforts to support electric vehicles: What policies and/or incentives are the most effective and OEM strategies.
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Researchers

- **Student Researchers:**
  - **Kunal Haria:** Sophomore, Mechanical Engineering
    - Working on data collection, management, and analysis of this year’s Powertrain Strategies for the 21st Century expert survey
  - **Alexa Kershenheiter:** Sophomore, Mechanical Engineering
    - Working on pre-conference analyses: China 2014 Production data, China auto manufacturer information, and conference highlights
    - Powertrain Strategies for the 21st Century analyses
Upcoming UMTRI-AF Conferences

• April 13, 2016: *Globalization of the Automotive Industry: The 2016 Update*. A new conference that brings everyone up to date on the trends in the globalization of the automotive industry from a manufacturer and supplier perspective.

• July 20, 2016: *Powertrain Strategies for the 21st Century*. Our 8th annual conference will provide an overview of all the electrification progress that has been made in the global auto industry.
Upcoming UMTRI-AF Conferences

• September 14, 2016: *The Future of Automotive IT: Driving Organizations, Vehicle Development, and Connected/Autonomous Vehicles.* Our 8th annual conference focused on the Business of IT shows the different sides of automotive IT and how it continues to change automotive organizations and vehicles.

• November 9, 2016: *Inside China: Understanding China’s Current and Future Automotive Industry.* Our 9th annual Inside China conference has traced the rapid rise of the Chinese auto industry. The largest automotive market in the world is such a unique market that it demands that we continue to examine both its current and future trends from a variety of perspectives: consumer choice, marketing, product development, government support and regulations, alternative energy, automotive research and development, industry structure, labor, economic impact, and manufacturing.
Upcoming UMTRI-AF Conferences

The UM Alumni Discount

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

9am  Bruce Belzowski, Managing Director, Automotive Futures, UM Transportation Research Institute

  • Susan Zielinski, Managing Director, UM-SMART (Sustainable Mobility and Accessibility Research and Transformation)

  • Sophie Punte, Executive Director, Smart Freight Centre, Amsterdam

  • Sophie Punte  Q&A

10:10-10:25am  Break

  • Tom Kearney, Transportation Specialist, US-DOT

  • Cheryl Bynum, National Program Manager, SmartWay, US-EPA

  • Komal Anand Doshi, Research Area Specialist, UM-SMART

  • AM Session: Panel Q&A
PM Presenters

12:00-1:30 Lunch

1:30pm Mary Wroten, Senior Manager, Supply Chain Sustainability, Ford Motor Company
   • Mary Wroten Q&A
   • Dave Hoover, Director of Outbound Logistics, Meijer Food Stores
   • Mike Dargis, President, Zip Xpress

2:40-2:50pm Break
   • Michael Marceroni, Director of Sales, Global Logistics, and Distribution, UPS
   • Cherry Burke, Associate Director of Logistics EHS and Sustainability, Dow Chemical Corporation
   • PM Session: Panel Q&A

4:20pm Adjourn
Conference Questions

• What are the major strategies and technologies companies are employing to develop sustainable supply chains?
• What global organizations are in place to support cooperation in sustainable supply chains?
• How does the government support increased safety in the sustainable supply chain?
• What are the differences in modes of transport in terms of volume and emissions in the US and globally?
Conference Questions

• How successful has government policy for reducing emissions been in the US from a goods movement perspective?

• What global links has the government forged for reducing emissions in support of sustainable supply chains?

• How does the environmental aspect of government regulations interact with the profit motive of private goods movement companies?
Conference Questions

• What are entrepreneurs doing to support for sustainable goods movement in terms of new technologies or new ways of thinking about goods movement?
• How are companies working with their supply base to support sustainability?
• What challenges do companies face when they enter their supply chain, trying to implement sustainability changes?
• What are some of the logistical innovations companies are implementing that support sustainability as well as profitability?
Conference Questions

• How can companies measure their carbon footprint and improve their load optimization?

• How do global companies manage sustainability practices across all the different countries where they operate?

• How do safety goals relate to sustainability in the supply chain?
Post Conference Mailing

Attendees:
• Link to presentations

Affiliates:
• Link to presentations
• Document and link to a review of highlights from the conference
Housekeeping

- Restrooms
- Wireless
- Cell Phones: Silent
- Speaker Bios
- Question Cards
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WELCOME!

The Link to Presentations Will Be Emailed This Weekend