

SAE 2012 Government/Industry Meeting

Technical Session Schedule

As of 01/31/2012 07:40 pm

Wednesday, January 25

Enforcement

Session Code: G210

Room 140 B

Session Time: 10:30 a.m.

This session will cover odometer fraud and issues with electronic tampering devices. It will also cover rates of completion for vehicle recalls.

Organizers - Jay Joseph, American Honda Motor Co. Inc.; Vince Williams, NHTSA

Time	Paper No.	Title
10:30 a.m.	ORAL ONLY	Digital Odometer Tampering via OBDII & the Controller Area Network David Sparks, NHTSA
10:50 a.m.	ORAL ONLY	Recall Completion Rates Jennifer Timian, NHTSA
11:10 a.m.	ORAL ONLY	Current and Future Odometer Disclosure Strategies Douglas Greenhaus, NADA
11:30 a.m.	ORAL ONLY	Recall Completion Rates Michael Cammisa, Association of Global Automakers Inc.

Wednesday, January 25

Safety and Cybersecurity of Automotive Electronic Control Systems

Session Code: G211

Room 140 B

Session Time: 2:30 p.m.

This session will focus on the challenges and technical solutions to ensure the safety of electronic control systems and safeguards against cybersecurity threats in current and future motor vehicles. This session will cover the implementation of ISO 26262, software safety assurance, and other safety and reliability topics. This session will also cover the cybersecurity of connected vehicles including dedicated short range communications and other communication technologies, and in-vehicle controller area networks. The synergy between safety and cybersecurity will also be addressed.

Organizers - Arthur Carter, NHTSA; Stephen G. Gehring, General Motors LLC

Time	Paper No.	Title
2:30 p.m.	ORAL ONLY	Security Considerations for Connected Vehicles Andre Weimerskirch, Escrypt Inc.
2:50 p.m.	ORAL ONLY	Assessment of the ISO 26262 Standard on Road Vehicles & Functional Safety Qi Van Eikema Hommes, Volpe Transportation Systems Center
3:10 p.m.	ORAL ONLY	Objectives of the SAE Functional Safety Committee David D. Hartfelder, GM Powertrain
3:30 p.m.	ORAL ONLY	Low Cost Multicast Authentication for In-Vehicle Networks Christopher J. Szilagyi, Carnegie Mellon University

Wednesday, January 25

Electric Drive Part I - The Vehicles

Session Code: G100

Room 143 A**Session Time: 10:30 a.m.**

Multiple electric drive vehicles are on sale today with more models coming soon. Are these the initial entries in a new high-volume market segment or just an interesting low-volume niche? Auto manufacturers have billions riding on the answer. This session will examine current and future electric drive vehicle offerings, their benefits and challenges and the policy incentives designed to spur demand. This session may include the status of battery and fuel cell technologies. Speakers from the OEMs, academia, and the government will explore these issues to provide insight into the potential for electric drive vehicles.

Organizers - Robert C. DeVault, Oak Ridge National Laboratory; Aaron Hula, U.S. DEPA; Sascha Simon, Mercedes-Benz USA LLC

Time	Paper No.	Title
10:30 a.m.	ORAL ONLY	BMW EV Roadmap <i>Rich Steinberg, BMW of North America</i>
10:50 a.m.	ORAL ONLY	The Future Today - Customers Acceptance Towards Hydrogen Electric Mobility with the Mercedes-Benz F-CELL <i>Rasheq Zarif, Mercedes-Benz USA LLC</i>
11:10 a.m.	ORAL ONLY	EN-V Reinventing Personal Urban Mobility <i>Mark Vann, General Motors Company</i>
11:30 a.m.	ORAL ONLY	Plug-in Electric Vehicle (PEV) Real-World Data from DOE's AVTA <i>James E. Francfort, Idaho National Lab.</i>

Wednesday, January 25**Electric Drive Part 2 - The Infrastructure****Session Code: G101****Room 143 A****Session Time: 2:30 p.m.**

Electric drive infrastructure needs vary greatly depending on vehicle technology. HEVs can use existing gasoline stations, while fuel cells require a brand new hydrogen infrastructure. Plug-in vehicle needs lie between those extremes. This session will explore the range of infrastructure options and their impacts for the consumer, utilities, energy providers and OEMs. Specific topics will include charging levels, locations and control, hydrogen production, distribution and refueling, and the policy incentives to jump-start infrastructure construction. Speakers from the utilities, academia, and the government will discuss these and other infrastructure related issues.

Organizers - Susan Burke, US Environmental Protection Agency; Robert C. DeVault, Oak Ridge National Laboratory

Time	Paper No.	Title
2:30 p.m.	ORAL ONLY	Electric Vehicle Infrastructure Implementation by DOE Clean Cities <i>Linda R. Bluestein, U.S. Department of Energy</i>
2:50 p.m.	ORAL ONLY	Title TBD <i>Mike Rowand, Duke Energy Corp.</i>
3:10 p.m.	ORAL ONLY	The Challenge and Importance of a Regional Infrastructure Plan <i>Robert L. Graham, Southern California Edison</i>
3:30 p.m.	ORAL ONLY	How an Electric Charging Infrastructure Affects the Market Penetration of Alternative Technology Vehicles <i>Jonathan Ford, Sentech Inc. (Now part of SRA International)</i>
3:50 p.m.	ORAL ONLY	Establishing a Hydrogen Fueling Infrastructure <i>Tim Brown, Univ. of California</i>

Wednesday, January 25**Opening Address**

Session Code: G500

9:00 a.m.

Room 143 ABC

Session Time:

Keynote Speakers - Daniel Carey Smith, NHTSA; David Strickland, Administrator, National Highway Traffic Safety Administration

Wednesday, January 25

Crash Avoidance I: Technologies

Session Code: G200

Room 143 BC

Session Time: 10:30 a.m.

This session will cover in-vehicle technologies to assist in avoiding a crash. These will include adaptive lighting of head lamps, forward crash warning, automatic braking, lane keeping assistance, and studies to assess the benefits of such systems. The government and industry cooperative efforts related to crash avoidance will also be presented.

Organizers - James M. Funke, NHTSA; Michael Hernandez, Toyota Motor North America Inc.

Time	Paper No.	Title
10:30 a.m.	ORAL ONLY	Advanced Headlamp Concepts Stephan Berlitz, Wolfgang Huhn, Audi AG
10:50 a.m.	ORAL ONLY	A FCW, CIB and DBS Benefit Estimation Method Developed in ACAT Program Masami Aga, Hirofumi Aoki, Yoshiki Miichi, Yoshiaki Matsuo, Shin Tanaka, Toyota Motor Corporation
11:10 a.m.	ORAL ONLY	Safety Impact Methodology (SIM): Application and Results of the Advanced Crash Avoidance Technologies (ACAT) Program James M. Funke, NHTSA; Gowrishankar P. Srinivasan, Raja Ranganathan, August Burgett, Bowhead Systems Management
11:30 a.m.	ORAL ONLY	Evolution and Expansion of Collision Avoidance Assist Technology Tomosaburo Okabe, Tetsuya Iijima, Nissan Motor Co., Ltd.
11:50 a.m.	ORAL ONLY	Comprehension of Advanced Collision Warning System Displays Emanuel Robinson, Neil D. Lerner, Jeremiah Singer, James W. Jenness, Westat
12:10 p.m.	ORAL ONLY	Insurance Crash Analyses of Crash Avoidance Systems and Implications for Consumer Information Testing Matthew Moore, Highway Loss Data Institute; David S. Zuby, Insurance Institute for Highway Safety

Wednesday, January 25

Crash Avoidance II: Connected Vehicles

Session Code: G201

Room 143 BC

Session Time: 2:30 p.m.

This session focuses DSRC communications-based crash avoidance systems. Topics will include the technical and policy aspects of the US DOT Connected Vehicle initiative and vehicle-to-vehicle communications research, with a focus on DSRC security, the USDOT Safety Pilot and policy research.

Organizers - Michael R. Lukuc, US Dept. of Transportation; Mary Wroten, Ford Motor Co.

Time	Paper No.	Title
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2:30 p.m.	ORAL ONLY	Safety Pilot Overview, Status, Activities Planned in 2012 <i>Michael C. Schagrin, U.S. Department of Transportation</i>
2:45 p.m.	ORAL ONLY	Policy Overview, Status, Activities Planned in 2012 <i>Valerie Briggs, U.S. Dept. of Transportation</i>
3:00 p.m.	ORAL ONLY	Connected Vehicle Driver Acceptance Clinics <i>Michael R. Lukuc, U.S. Dept. of Transportation</i>
3:15 p.m.	ORAL ONLY	USDOT - CAMP V2V Security System Research <i>Tom Schaffnit, Honda R&D Americas Inc.</i>
3:30 p.m.	ORAL ONLY	VIIC Security <i>Mary Wroten, Ford Motor Co.</i>
3:45 p.m.	ORAL ONLY	Safety Pilot Security System <i>Walton L. Fehr, U.S. Dept. of Transportation</i>
4:00 p.m.	ORAL ONLY	Safety Pilot Model Deployment Evaluation <i>James R. Sayer, UMTRI</i>
4:15 p.m.	ORAL ONLY	Safety Pilot Independent Evaluation <i>Emily Nodine, Volpe Natl Transportation Systems Center</i>

Wednesday, January 25

The Next Generation of Biofuels

Session Code: G105

Room 144 A

Session Time: 10:30 a.m.

This session will explore the next generation of biofuels and some of the regulatory and practical hurdles for commercialization.

Organizers - Robert Anderson, U.S. EPA; Valerie Ughetta, Alliance of Automobile Manufacturers

Time	Paper No.	Title
10:30 a.m.	ORAL ONLY	The Registration of New Biofuels <i>James W. Caldwell, U.S. Environmental Protection Agency</i>
10:50 a.m.	ORAL ONLY	Opportunities and Challenges with New Fuel Introduction <i>Charles W. Corr, RFA Technical Committee Chair</i>
11:10 a.m.	ORAL ONLY	Potential Paths for EISA Compliance <i>Brian West, Timothy J. Theiss, Bruce G. Bunting, Oak Ridge National Laboratory</i>
11:30 a.m.	ORAL ONLY	Biodiesel <i>William H. Woebkenberg, Mercedes Benz</i>

Wednesday, January 25

Natural Gas and Other Alternative Fuels

Session Code: G106

Room 144 A

Session Time: 2:30 p.m.

With the recent expansion of U.S. natural gas reserves, due in large part to fracking, natural gas has emerged -- again -- as a significant potential energy source for transportation in heavy- and light-duty vehicles. This session would examine various ways of using natural gas in transportation and the consequences thereof (e.g., GTLs vs CNG/LNG vs hydrogen vs electricity; medium-/heavy-duty only vs. LDV; in LDVs, dedicated vs bi-fuel; etc.). What's the real world proposition of natural gas for fleet vehicles? What are the prospects for other emerging fuels like advanced biofuels This session may explore the rhetoric and reality of potential for seismic shifts in fuels and infrastructure and the challenges of bringing these fuels to market.

Organizers - William P. Chernicoff, Toyota Motor North America Inc.; Steven Przesmitzki, U.S. Department of Energy

Time	Paper No.	Title
2:30 p.m.	ORAL ONLY	Some Late Nights thoughts While Listening to Thelonious Monk: Perspectives on Biofuels Development Larry Walker, Cornell Univ.
2:50 p.m.	ORAL ONLY	Pathways for Natural Gas in Transportation: Comparing the Options Mary Barcella, IHS
3:10 p.m.	ORAL ONLY	Natural Gas Vehicles - What's Different Now Mark S. Smith, US Department of Energy
3:30 p.m.	ORAL ONLY	DOE Online Tools for Alternative Fuels Kristi Moriarty, National Renewable Energy Laboratory

Wednesday, January 25

Washington DC Section Event and Program

Session Code: G505

Room 144 A

Session Time: 5:00 p.m.

4:30 - Reception; 5:00 - Program "Green Racing"

Keynote Speakers - Scot Elkins, IMSA; Ed Triolo, American Le Mans Services; Robert Larsen, Consultant

Wednesday, January 25

Crashworthiness I: Frontal Impacts

Session Code: G206

Room 144 BC

Session Time: 10:30 a.m.

Frontal crashes with low offset or oblique angle of impact will be the focus of this session. Presentations will include crash test results from various institutions including NHTSA and IIHS using a variety of pole, barrier, and MDB test methods. Also, analyses of real-world crash data will be presented.

Organizers - Raul A. Arbelaez, Insurance Institute for Highway Safety; James Saunders, NHTSA

Time	Paper No.	Title
10:30 a.m.	ORAL ONLY	An Investigation of Injury Factors Concerning Drivers in Vehicles Involved in Small-Overlap Frontal Crashes Tomosaburo Okabe, Hidetsugu Saeki, Taisuke Watanabe, Nissan; Tomoyuki Nakao; Takahiro Kikuchi, Nissan
10:50 a.m.	ORAL ONLY	An Update on NHTSA's Small Overlap/Oblique Research James Saunders, NHTSA
11:10 a.m.	ORAL ONLY	The Role of the Vehicle Structure in Reducing Injuries in Small Overlap Crashes Charles M. Thomas, Honda R&D Americas Inc.

11:30 a.m.	ORAL ONLY	Development of Evaluation Method for Small Overlap Frontal Collision Hiroshi Kato, Yoshihisa Kanno, Shigemi Mase, Sathoshi Funabashi, Toyota Motor Corporation
11:50 a.m.	ORAL ONLY	IIII 5th Female Rear Occupant Response in Small Overlap/Oblique Crash Tests Matthew Craig, NHTSA
12:10 p.m.	ORAL ONLY	An Update on the IIHS Small Overlap Research Program Christopher P. Sherwood, Insurance Institute for Highway Safety

Wednesday, January 25

Crashworthiness II: Rollover and Side Impacts

Session Code: G207

Room 144 BC

Session Time: 2:30 p.m.

Rollover and side impacts crashes remain a significant priority for crash safety. Special consideration will be given to rollover test methods, vehicles stability control and ejection mitigation. Real world crash and injury evaluations will also be presented.

Organizers - Charles A. Kawashima, Toyota; Allison E. Loudon, NHTSA

Time	Paper No.	Title
2:30 p.m.	ORAL ONLY	Influence of FMVSS 226 on Side Airbag Out of Position Injury Assessment Jeff Dix, Selim A. Hammoud, Alex V. Cardinali, Nissan North America Inc.; Abe Mitchell, Autoliv North America
2:50 p.m.	ORAL ONLY	Epidemiology of Rollover Injuries Dipan Bose, Jason R. Kerrigan, Jeff Crandall, Univ. of Virginia
3:10 p.m.	ORAL ONLY	The Characteristics of Rollover Crashes in Run-Off Road Events H. Clay Gabler, Virginia Tech.
3:30 p.m.	ORAL ONLY	Kinematics of Children and Adults in Lateral Low Speed Loading Emily Mathews, Drexel Univ.; Thomas Seacrist, Sriram Balasubramanian, Children's Hospital of Philadelphia; Richard W. Kent, Francisco Jose Lopez-Valdes, Univ. of Virginia; Schuyler St. Lawrence, TK Holdings Inc.; Hiromasa Tanji, Takata Holdings Inc.; Kazuo Higuchi, TK Holdings Inc.; Kristy B. Arbogast, Children's Hospital of Philadelphia
3:50 p.m.	ORAL ONLY	Impact and Injury Patterns in Side Crashes of Vehicles with Good Ratings for Side Crash Protection Becky C. Mueller, Matthew L. Brumbelow, Raul A. Arbelaez, David S. Zuby, Insurance Institute for Highway Safety
4:10 p.m.	ORAL ONLY	50th Percentile Male WorldSID Update: Seating Procedure and Crash Tests Allison E. Loudon, NHTSA

Thursday, January 26

Alternative Fuel Safety

Session Code: G212

Room 140 B

Session Time: 10:30 a.m.

This session will focus on the safety of electrical systems in electric cars including battery testing. It will also cover international regulations on hydrogen and CNG and guidelines on modification to convert to electric vehicles.

Organizers - Phil Gorney, NHTSA; Joseph Thompson, Nissan

Time	Paper No.	Title
10:30 a.m.	ORAL ONLY	Li-ion Global Safety Standardization Robert Galyen, Magna E-Car Systems
10:50 a.m.	ORAL ONLY	Safety Performance Advancements for Large scale Li-ion Batteries through Material Development Christopher J. Orendorff, Sandia National Laboratories
11:10 a.m.	ORAL ONLY	Failure Modes and Effects Analysis of Lithium-Ion Battery Electric and Plug-in Hybrid Vehicles Denny Stephens, Battelle Memorial Institute
11:30 a.m.	ORAL ONLY	Status and Outlook of International Electric Vehicle and Battery Safety Requirements (RESS) Heiko Mertens, Volkswagen AG
11:50 a.m.	ORAL ONLY	Updating the Federal Motor Carrier Safety Regulations (FMCSRs) to Accommodate Natural Gas as an Alternative Fuel Quon Kwan, USDOT - FMCSA
12:10 p.m.	ORAL ONLY	Hydrogen and CNG Vehicle Fuel System Safety Research Barbara Hennessey, NHTSA

Thursday, January 26

Data Collection and Analysis

Session Code: G213

Room 140 B

Session Time: 2:30 p.m.

This session will include new developments in the collection and use of real-world crash data. It will discuss the integration of the FARS and NASS GES for enhanced data quality and improved data analysis. In addition, updates and changes to the NASS including data collection protocol changes, new variables, and sample changes will be discussed. Additional safety data collections may also be discussed.

Organizers - Chip Chidester, NHTSA; Jeff Dix, Nissan Technical Center North America

Time	Paper No.	Title
2:30 p.m.	ORAL ONLY	Lower Extremity Injuries and Intrusion in Frontal Crashes Rory A. Austin, NHTSA
2:45 p.m.	ORAL ONLY	Collecting Child-Specific Supplemental Crash Data: The NCOSS Project Dennis R. Durbin, Allison Curry, Mark Zonfrillo, Rachel Myers, Kristy B. Arbogast, Children's Hospital of Philadelphia
3:00 p.m.	ORAL ONLY	Role of Geographic Information (GIS) in FARS Data Collection and Analysis Rajesh Subramanian, NHTSA
3:15 p.m.	ORAL ONLY	Linkage of Pre-hospital, Trauma System and Medical Imaging Databases for Crash Injury Analysis Stewart C. Wang, Carla Kohoyda-Inglis, Univ. of Michigan
3:30 p.m.	ORAL ONLY	Major Data Changes in the FARS and NASS GES as a Move Toward Pre-crash Data Collection Barbara Rhea, NHTSA
3:45 p.m.	ORAL ONLY	rateEFFECT: Effectiveness Evaluation of Active Safety Systems Joern Marten Wille, Volkswagen AG

Moderators - James Kliesch, Union of Concerned Scientists

Time	Paper No.	Title
2:30 p.m.	ORAL ONLY	Technologies for Achieving the Proposed Federal Greenhouse Gas Emissions and Fuel Economy Standards for 2017-2025 Light-Duty Vehicles Bill Charmley, U.S. Environmental Protection Agency; James Tamm, NHTSA
2:50 p.m.	ORAL ONLY	Potential Improvements to ICEs Through 2021 Nancy L. Homeister, Ford Motor Co.
3:10 p.m.	ORAL ONLY	The Role of HEVs and PHEVs in Achieving the Proposed 2021 GHG Standards Tom Stricker, Toyota Motor North America Inc.
3:50 p.m.	ORAL ONLY	Off-Cycle GHG Reduction Potential Michel A. Forissier, Valeo

Thursday, January 26

Biomechanics

Session Code: G202

Room 143 BC

Session Time: 10:30 a.m.

This session addresses the development of anthropomorphic test devices (ATDs), computational human models, injury prediction methodologies, and laboratory test procedures. These complimentary research approaches target the improvement of automotive safety through a better understanding of the human response to impact and associated injury risk in frontal, oblique, and lateral loading conditions.

Organizers - Daniel Parent, NHTSA; Robert Pfeiffer, InterRegs, Ltd.

Time	Paper No.	Title
10:30 a.m.	ORAL ONLY	Preliminary Repeatability and Reproducibility Assessment of the THOR Mod Kit ATD Daniel Parent, Stephen Ridella, NHTSA
10:50 a.m.	ORAL ONLY	Thoracic Injury Assessment for Improved Vehicle Safety Paul Lemmen, Bernard Been, Humanetics Europe
11:10 a.m.	ORAL ONLY	Dynamic Response of the THOR-NT: Thorax and Abdomen Mitsutoshi Masuda, Toyota Motor Corporation; Sabine Compigne, Toyota Motor Europe
11:30 a.m.	ORAL ONLY	A Theoretical, Probabilistic Framework for the Interpretation of Rib Cortical Bone Strains from Finite Element Simulations Jason Forman, Univ. of Virginia; Ola Bostrom, Krystoffer Mroz, Autoliv Research; Maria Segui-Gomez, European Center for Injury Prevention
11:50 a.m.	ORAL ONLY	Completion of Phase I Development of the Global Human Body Models Consortium Mid-Sized Male Full Body Finite Element Model F. S. Gayzik, presenting on behalf of GHBMC Tech Comm & Univ Res Partners
12:10 p.m.	ORAL ONLY	Loadwall Side Impacts: Implications for Advanced Sensor Deflection Measures in Dummies John R. Humm, Narayan Yoganandan, Frank A. Pintar, Medical College of Wisconsin

Thursday, January 26

Applying Safety Technologies: How Motorcoach and Trucking Industries are Staying Ahead of the Curve

Session Code: G203

Room 143 BC

Session Time: 2:30 p.m.

While several federal rulemakings are either in process or are being researched, the commercial vehicle industry is staying ahead of the curve by getting these technologies on vehicles. This session will look at where the federal rulemaking activities are heading, what is happening in the motorcoach and commercial trucking industries, and how safety technologies are evolving.

Organizers - Leigh S. Merino, Motor & Equipment Mfrs Association; Alrik L. Svenson, NHTSA

Time	Paper No.	Title
2:30 p.m.	ORAL ONLY	Status of NHTSA's Motorcoach Safety Efforts Shashi M. Kuppa, NHTSA
2:50 p.m.	ORAL ONLY	Analysis of Recent NTSB Motorcoach and Truck Investigations Daniel Filiatrault, National Transportation Safety Board
3:10 p.m.	ORAL ONLY	Motorcoach Fire Testing at NIST David Sutula, U.S. DOT/NHTSA
3:30 p.m.	ORAL ONLY	Applying Safety Technologies in Motorcoach Industry Norm Littler, American Bus Association
3:50 p.m.	ORAL ONLY	Heavy Truck Safety Technology Ted Scott, American Trucking Associations

Thursday, January 26

Welcome to the Future of GHG Rules for Medium and Heavy Duty Trucks - Part I

Session Code: G107

Room 144 A

Session Time: 10:30 a.m.

This session will explore this landmark rule that will determine the types of engines, fuels and vehicles to serve the commercial sector for decades to come.

Organizers - Allen Schaeffer, Diesel Technology Forum; Robert M. Wagner, Oak Ridge National Laboratory; Houshun Zhang, EPA

Time	Paper No.	Title
10:30 a.m.	ORAL ONLY	2014-18+ Medium and Heavy-Duty Vehicle Fuel Efficiency and Greenhouse Gas Emissions Maurice E. Hicks, NHTSA; Matthew W. Spears, U.S. EPA
11:00 a.m.	ORAL ONLY	Impact of the Heavy Duty Vehicle GHG and Efficiency Rule on Truck Manufacturers and Owners Tony Greszler, Volvo Powertrain Corporation
11:20 a.m.	ORAL ONLY	Beyond the GHG Rules for Heavy Trucks - SuperTruck Roland M. Gravel, U.S. Dept. of Energy
11:40 a.m.	ORAL ONLY	Title TBD Daniel R. Kieffer, Paccar

Thursday, January 26

Welcome to the Future of GHG Rules for Medium and Heavy Duty Trucks - Part 2

Session Code: G108

Room 144 A**Session Time: 2:30 p.m.**

This session will explore this landmark rule that will determine the types of engines, fuels and vehicles to serve the commercial sector for decades to come.

Organizers - Allen Schaeffer, Diesel Technology Forum; Robert M. Wagner, Oak Ridge National Laboratory; Houshun Zhang, EPA

Time	Paper No.	Title
2:30 p.m.	ORAL ONLY	A Holistic View on Emissions - Criteria and CO2 Timothy Johnson, Corning Inc.
3:10 p.m.	ORAL ONLY	Powertrain Technologies for Increased Fuel Efficiency Mihai Dorobantu, Eaton Corp.
3:30 p.m.	ORAL ONLY	Trucking INdustry Perspective on New Medium and Heavy-Duty GHG Rules Glen P. Kedzie, American Trucking Associations
3:50 p.m.	ORAL ONLY	CO2 from a Full-Line Medium and Heavy Duty Manufacturer Perspective Ken McAlinden, Ford Motor Co.

Thursday, January 26**Driver Distraction****Session Code: G208****Room 144 BC****Session Time: 10:30 a.m.**

This session will cover the latest research on driver distraction. One focus area will be voluntary guidelines and recommended practices for designing portable and integrated devices to mitigate driver distraction. It will also cover technologies designed to combat driver distraction.

Organizers - Sukhbir Bilkhu, Chrysler Group LLC; W. Riley Garrott, NHTSA

Time	Paper No.	Title
10:30 a.m.	ORAL ONLY	Real-World Distracted Driver Accidents - Two Recent NTSB Cases Dennis Collins, NTSB
10:45 a.m.	ORAL ONLY	NHTSA's Experimental Testing to Develop NHTSA's Driver Distraction Guidelines Elizabeth Mazzae, W. Riley Garrott, NHTSA
11:00 a.m.	ORAL ONLY	NHTSA's Driver Distraction Guidelines W. Riley Garrott, Elizabeth Mazzae, NHTSA
11:15 a.m.	ORAL ONLY	Driver Drowsiness Detection Frank Sgambati, Robert Bosch LLC
11:30 a.m.	ORAL ONLY	Definition of a Task for Distraction Measurement Linda Angell, Virginia Tech Transportation Institute
11:45 a.m.	ORAL ONLY	Driver Distraction Update from the SAE Safety & Human Factors Steering Committee Daniel J. Selke, Mercedes-Benz USA LLC
12:00 p.m.	ORAL ONLY	Beginning the Analysis of the SHRP 2 Naturalistic Driving study Kenneth Campbell, Transportation Research Board

Thursday, January 26**Child Safety**

Session Code: G209

2:30 p.m.

Room 144 BC

Session Time:

This session will cover programs that update NHTSA's side impact test procedure development, along with evaluations of the Q3s three year old dummy and the new Q 10 year old dummy. Other topics will include effectiveness of booster seat laws on injury risk and evaluation of a proposed LATCH rating system vs. the quality of CRS installation by volunteers.

Organizers - MaryAnn Beebe, General Motors LLC; Lisa K. Sullivan, NHTSA

Time	Paper No.	Title
2:30 p.m.	ORAL ONLY	NHTSA Evaluation of the Q3s Three Year-Old Side Impact Dummy Dan Rhule, NHTSA
2:50 p.m.	ORAL ONLY	NHTSA's Initial Evaluation of Child Side Impact Protection - Update Cristina G. Echemendia, Lisa K. Sullivan, Allison E. Loudon, NHTSA
3:10 p.m.	ORAL ONLY	Effects of Booster Seat Laws on Injury Risk Among Children in Crashes Angela H. Eichelberger, Aline O. Chouinard, Jessica Jermakian, Insurance Institute for Highway Safety
3:30 p.m.	ORAL ONLY	Vehicle Factors Associated with LATCH Usability Kathleen DeSantis Klinich, Miriam A. Manary, UMTRI
3:50 p.m.	ORAL ONLY	Q10 Dummy Development Paul Lemmen, Kees Waagmeester, Mark J. Burleigh, Humanetics Europe
4:10 p.m.	ORAL ONLY	A Look Inside American Family Vehicles: National Study of 79,000 Car Seats, 2009-2010 Lorrie Walker, Safe Kids Worldwide

Thursday, January 26

Plenary Session

Session Code: G501

Room TBD

Session Time: 8:00 a.m.

The automobile industry is entering a period of unprecedented challenge and change. Continuing focus worldwide on reducing petroleum use and greenhouse gases is leading governments, including the US EPA, NHTSA and CARB, to propose dramatic increases in fuel efficiency. Meanwhile demand for personal mobility is expected to spike in many developing countries. Consumers and governments worldwide continue to expect improvements in crashworthiness and inclusion of crash avoidance technologies. How can all the stakeholders - government, industry, consumers, environmentalists and policymakers best work together to meet these steep and sometimes conflicting priorities? Join our distinguished panelists as they discuss and debate these daunting challenges.

Moderators - Jason Vines, Senior VP, Fleishman-Hillard

Panelists - Mitch Bainwol, CEO, Alliance of Automobile Manufacturers Inc.; Kathleen Hogan, Deputy Asst Secretary for Energy Efficiency, EERE, US Department of Energy; Roland Hwang, Transportation Directory & Policy Analyst, Natural Resources Defense Council; Adrian Lund, President, Insurance Institute for Highway Safety; Ronald Medford, Deputy Administrator, NHTSA; Margo Oge, Director, Office of Transportation & Air Quality, U.S. EPA; David Sargent, Vice President, Global Automotive, JD Power And Associates; Heather Zichal, Deputy Assistant to the President for Energy & Climate Change Policy, The White House;

Friday, January 27

Think Globally, Act Globally

Session Code: G104

Room 143 A

Session Time: 10:30 a.m.

This session will explore global vehicle standards and transportation policies, which are leading or lagging, which make sense and which create conflict? The auto industry is increasingly influenced by global markets and developments outside of North America. Harmonization of standards and global platforms have been both aspirations and accomplishments ¿ where are we going with future fuel and emissions standards and policies¿ and how will that drive changes in US leadership in policy and technology? What resources will be available to the future, global automobile market? This session may also cover possible future fuel prices, fuel standard, fuel types, assessments of uses and demand for rare earth minerals, and incentives influencing consumers.

Organizers - *Rehka Pillai, Oak Ridge National Laboratory; Julia Rege, Global Automakers; Robert M. Wagner, Oak Ridge National Laboratory*

Moderators - *Rehka Pillai, Oak Ridge National Laboratory*

Time	Paper No.	Title
10:30 a.m.	ORAL ONLY	Transforming Transportaiton Globally: The Role of Natural Gas <i>Kathryn Clay, Drive Natural Gas Alliance</i>
10:50 a.m.	ORAL ONLY	Electric Vehicles and Petroleum Refining in DOE¿s 2011 Critical Materials Strategy <i>Diana Bauer, U.S. Dept. of Energy</i>
11:10 a.m.	ORAL ONLY	Sustainable Personal Mobility: Challenges and Opportunities <i>Mary Beth Stanek, General Motors LLC</i>
11:30 a.m.	ORAL ONLY	Renewable and Low-Carbon Fuel Standards for Motor Fuels: Regional and National Initiatives to Address Global Carbon Emissions and Energy Security <i>Paul Leiby, Oak Ridge National Laboratory; Jonathan Rubin, Univ. of Maine</i>

Friday, January 27

Opening Address and Award Presentation

Session Code: G502

Room 143 ABC

Session Time: 9:00 a.m.

Keynote Speakers - *Henry Kelly, Assistant Secretary, U.S. Dept. of Energy*

Friday, January 27

Integrated Safety and Advanced Restraints

Session Code: G204

Room 143 BC

Session Time: 10:30 a.m.

This session will cover development and testing of safety systems designed to reduce the severity of an imminent accident. Such systems include those that precharge the brakes, inflate seats for extra support, move the passenger seat, position head rests to avoid whiplash, tension seat belts and automatically apply partial or full braking to minimize impact.

Organizers - *John Frooshani, Subaru of America Inc.; Alope Prasad, National Hwy Traffic Safety Admin*

Time	Paper No.	Title
10:30 a.m.	ORAL ONLY	Adaptive Brake Assistance Systems ¿ Results from Real World Tests and Proposal for Test Procedures <i>Joerg J. Breuer, Daimler AG</i>

10:45 a.m.	ORAL ONLY	Methods to Objectively Evaluate CIB and DBS Performance on the Test Track Garrick J. Forkenbrock, NHTSA
11:00 a.m.	ORAL ONLY	Summary of NHTSA's and CAMP's Advanced Restraints Project James Saunders, NHTSA
11:15 a.m.	ORAL ONLY	Applying Integrated Safety Techniques to Enhance Human Safety Tony Bromwell, TASS Americas; Cecil Owens, Roy Bours, TASS BV
11:30 a.m.	ORAL ONLY	Comfort, Convenience, and Pre-Crash Functionality of TRW Active Control Retractor and Active Buckle Lifter Scott Gilkey, Edgar Schlaps, TRW Vehicle Safety Systems Inc.
11:45 a.m.	ORAL ONLY	A Comparative Evaluation of Rearview Camera Display Locations: Collision Avoidance Outcomes and Use Patterns Genevieve Heckman, Robert Rauschenberger, Robyn Kim, Douglas Young, Robert C. Lange, Exponent, Inc.
12:00 p.m.	ORAL ONLY	Bosch Motorcycle ABS: Safety for All Frank Sgambati, Robert Bosch LLC

Friday, January 27

Quiet Car and Pedestrians: Includes Pedestrian GTR Developments

Session Code: G205

Room 144 A

Session Time: 10:30 a.m.

This session will cover the Pedestrian Safety Enhancement Act requirements to design warning sounds into electric vehicles to alert pedestrians of their presence. It will also cover international standard and consumer vehicle ratings for pedestrian protection.

Organizers - Timothy Johnson, NHTSA; Daniel J. Selke, Mercedes-Benz USA LLC

Time	Paper No.	Title
10:30 a.m.	ORAL ONLY	Overview of NHTSA Quiet Car Research Program Lisandra Garay-Vega, NHTSA
10:50 a.m.	ORAL ONLY	Quiet Hybrid and Electric Vehicles and Pedestrian Safety - NHTSA's Rulemaking Policy Considerations Gayle D. Dalrymple, NHTSA
11:10 a.m.	ORAL ONLY	SAE Vehicle Sound for Pedestrians Update Jay Joseph, American Honda Motor Co. Inc.; Daniel J. Selke, Mercedes-Benz USA LLC
11:30 a.m.	ORAL ONLY	WP29 Update on Quiet Cars Kenneth Feith, Retired U.S. EPA
11:50 a.m.	ORAL ONLY	NHTSA Evaluation of the Flex GTR Legform on US Vehicles Brian Suntay, Ann E. Mallory, Transportation Research Center Inc.; Jason Stammen, NHTSA
12:10 p.m.	ORAL ONLY	Pedestrian Safety GTR Update Sukhbir Bilkhu, Chrysler Group LLC

Friday, January 27

Joint Safety-Energy Session - Lightweighting vs Economy/Safety

Session Code: G109

Room 144 BC**Session Time: 10:30 a.m.**

What are the practical limits for mass reduction to improve light duty fuel economy by 2025? If vehicle size is maintained, what are the safety impacts associated with mass reduction through material substitution, and careful structural design? What are the cost implications of material substitution and enhanced structural design? Assuming secondary weight savings and drive train optimization, what fuel economy improvements are possible through mass reduction?

Organizers - *Scott A. Schmidt, Alliance of Automobile Manufacturers Inc.; Stephen Summers, NHTSA; William H. Walsh, Consultant*

Time	Paper No.	Title
10:30 a.m.	ORAL ONLY	<i>The Effect of Mass on Injury Risk: A Look at Insurance Injury Rates for Hybrid Vehicles Versus their Non-Hybrid Counterparts</i> <i>Matthew Moore, Highway Loss Data Institute</i>
10:50 a.m.	ORAL ONLY	<i>Future Safety Challenges Associated with CAFE</i> <i>Priya Prasad, Prasad Engg LLC</i>
11:10 a.m.	ORAL ONLY	<i>Relationships Between Fatality Risk, Mass, and Footprint in Model Year 2000-2007 Passenger Cars and LTVs</i> <i>Charles Kahane, NHTSA</i>
11:30 a.m.	ORAL ONLY	<i>Economic Light-Weighting Options for Vehicle Structures for Year 2020</i> <i>Harjinder Singh, EDAG</i>
11:50 a.m.	ORAL ONLY	<i>The Effects of Vehicle Size and Mass on Safety</i> <i>Jeya Padmanaban, JP Research Inc.</i>
12:10 p.m.	ORAL ONLY	<i>Assessment of state-of-the-art in predictive capability of CAE for Crash Performance</i> <i>Priya Prasad, Prasad Engg LLC; Prakash Krishnaswamy, Michael Lee, Ravi Chilukuri, EASI</i>