SAE INTERNATIONAL

EVENT GUIDE

GOVERNMENT INDUSTRY MEETING

April 3-5, 2019
Washington, DC

sae.org/gim

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*This meeting is co-located with

THE WASHINGTON AUTO SHOW
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EVENT-AT-A-GLANCE

April 3
WEDNESDAY

8:00 - 8:30 a.m.
Continental Breakfast with Exhibits
Concourse Foyer
Sponsored by Nissan North America

8:30 - 9:30 a.m.
Opening Keynote
Lawrence D. Burns
"Autonomy: The Quest to Build the Autonomous Car — and how it will Reshape our World"
Room 146 AB

9:30 - 9:45 a.m.
Networking with Exhibitors

9:45 - 11:45 a.m.
Technical Sessions

12:00 - 2:00 p.m.
Joint Lunch with MobilityTalks International
"Communicating Benefits of Advanced Technologies to New Vehicle Buyers"
Ballroom C
Co-Sponsored by Alliance of Automobile Manufacturers & NADA

2:00 - 2:30 p.m.
Networking with Exhibitors

2:30 - 4:30 p.m.
Technical Sessions

4:30 - 6:00 p.m.
Joint Reception with MobilityTalks International
Ballroom A
Co-Sponsored by Toyota Motor North America & MEMA

April 4
THURSDAY

7:30 - 8:00 a.m.
Continental Breakfast with Exhibits
Concourse Foyer
Sponsored by American Honda Motor Co

8:00 - 10:00 a.m.
Technical Sessions

10:00 - 10:15 a.m.
Networking with Exhibitors

10:15 a.m. - 12:15 p.m.
Technical Sessions

12:30 - 2:00 p.m.
Awards Presentations & Lunch Keynote
Amy Walter, Political Report
Ballroom C
Sponsored by Daimler

2:00 - 3:00 p.m.
Visit with Exhibitors

3:00 - 5:00 p.m.
Plenary Roundtable Dicussion
"How are States Influencing Technology?"
Room 146AB

5:00 p.m.
Washington Auto Show Sneak-Peek Preview & VIP Reception

April 5
FRIDAY

8:30 - 9:00 a.m.
Continental Breakfast with Exhibits
Concourse Foyer

9:00 - 10:00 a.m.
Opening Keynote
Heidi King, Deputy Administrator, NHTSA
Room 146AB

10:00 - 10:15 a.m.
Networking with Exhibitors

10:15 a.m. - 12:15 p.m.
Technical Sessions

TECHNICAL SESSION

NETWORKING OPPORTUNITY

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Event at a Glance
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Mobile App
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General Chair:

Dan Selke
Safety Engineer
Vehicle Compliance & Analysis Department
Mercedes-Benz USA, LLC

Congressional Directory will be distributed to all registered attendees on-site at the SAE 2019 Government/ Industry Meeting registration desk.

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GOVERNMENT/ INDUSTRY MEETING

CONTENTS

EMERGENCY PROCEDURES DURING THE SAE 2019 GOVERNMENT/ INDUSTRY MEETING

During the SAE 2019 Government/Industry Meeting attendees are to follow the established emergency guidelines of the facility where the emergency occurs. **Based on the location of the incident, report emergencies to the nearest venue representative and/or security personnel if available, or report to the SAE operations office located in Room 150 B.**

Should a catastrophic event occur, attendees should follow the safety and security instructions issued by the facility at the time of the event. This includes listening for instructions provided through the public address system and following posted evacuation routes if required.

In the event of an emergency or a major disruption to the schedule of events at the Government/Industry Meeting, attendees and exhibitors may call this number to receive further information about the resumption of this event. Updates will also be provided via the SAE website at sae.org/gim and the mobile app.

SAE EMERGENCY HOTLINE

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Attendees are permitted to bring camera equipment onto the show floor. Exhibitors retain the right to restrict photography of their products or displays and such decisions are within the discretion of the exhibitor and are not controlled by SAE International.

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P19321980

SAE INTERNATIONAL

TRIBUTE

Michael Finkelstein

June 14, 1943 – July 12, 2018

A special thanks for Mike's dedication to vehicle and traffic safety and to the SAE Government/Industry Meeting General Committee and Washington DC Section.

Your positive attitude and influence will be missed.

P19324362


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EVENT INFORMATION

Registration
148 & 153 Foyer

Registration sponsored by

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On-Site Registration hours:

Wednesday, April 3
7:30 a.m. – 4 p.m.

Thursday, April 4
7:30 a.m. – 4 p.m.

Friday, April 5
8 – 10 a.m.

Exhibit Hours
Concourse Foyer
Open during event hours

See page 27-28 for Exhibitor Listing.

Continental Breakfasts
Concourse Foyer
Wednesday, April 3
8 – 8:30 a.m.

Wednesday Breakfast sponsored by

NISSAN GROUP OF NORTH AMERICA

Thursday, April 4
7:30 – 8 a.m.

Thursday Breakfast sponsored by

HONDA
The Power of Dreams

Friday, April 5
8:30 – 9 a.m.

Refreshment Break
Concourse Foyer
Wednesday Afternoon

Wednesday Afternoon Refreshment Break sponsored by

mazda

Coat Check
Room 141
Wednesday, April 3
7:30 a.m. – 6:30 p.m.

Thursday, April 4
7:30 a.m. – 8:30 p.m.

Friday, April 5
8 a.m. – 1:00 p.m.

Price: $5 per item

Joint Reception with MobilityTalks International
Ballroom A

Reception co-sponsored by

MEMA TOYOTA

Wednesday, April 3
4:30 – 6 p.m.

SAE Staff Office
Room 150 B
Open during event hours

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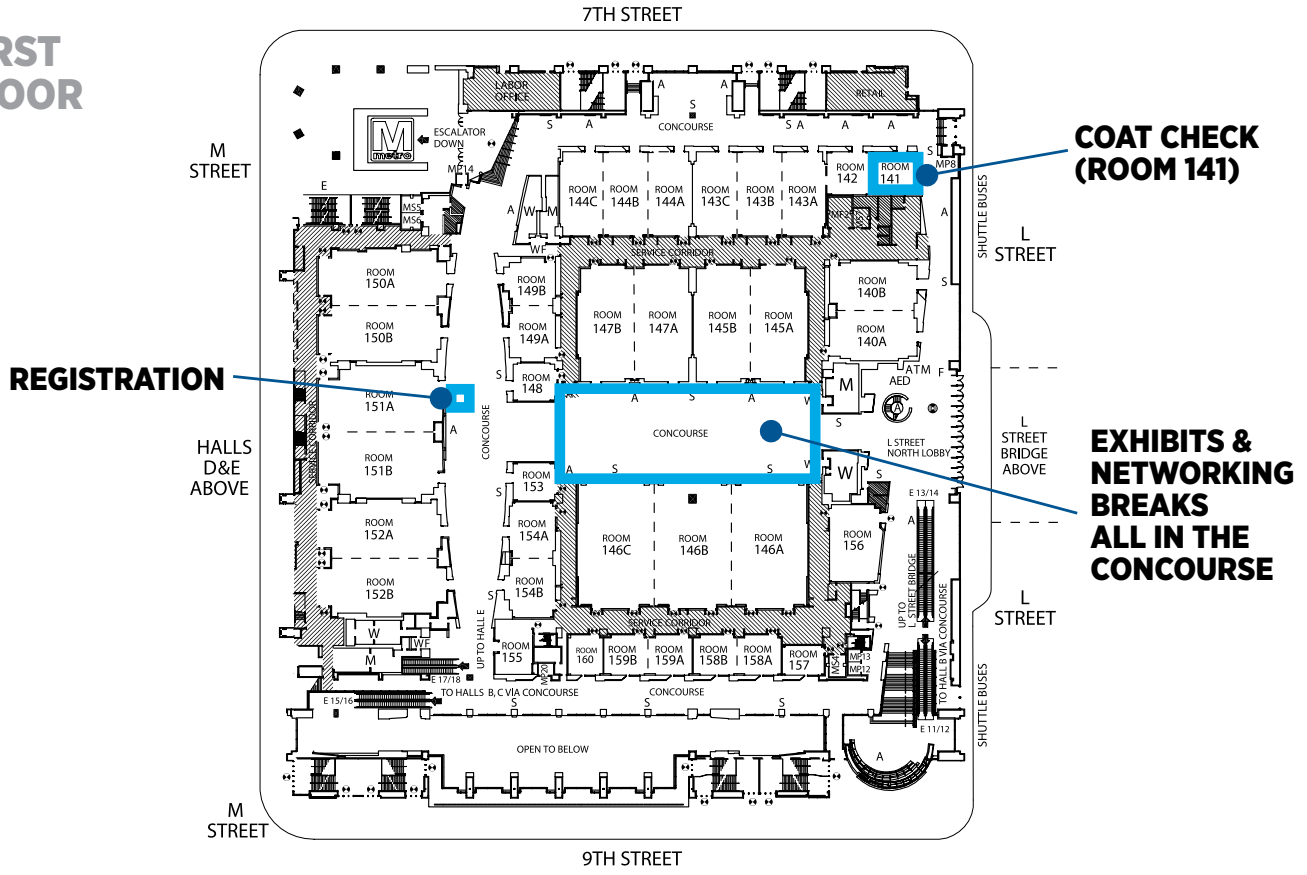
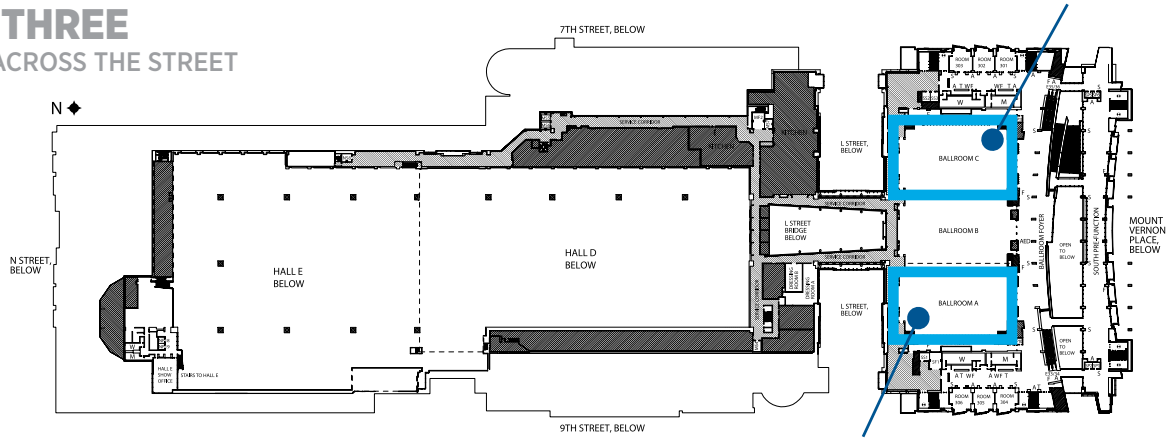


LEVEL THREE

LOCATED ACROSS THE STREET



RAV4 Hybrid

The all-new RAV4 Hybrid is more than ready to blow past the competition. With head-turning style and breakaway speed, it's going to change the way you think of a hybrid. ***Let's Go Places.***

The all-new RAV4 Hybrid has the most horsepower and torque, compared to RAV4 gas models. Prototype shown with options.

SPECIAL EVENTS BY DAY

Wednesday Opening Keynote

Wednesday, April 3
Room 146 AB

8:30 – 9:30 a.m.

Lawrence Burns
Business Advisor and Author of
"Autonomy: The Quest to Build the Driverless Car and How it Will Reshape Our World"

Wednesday Luncheon Roundtable Discussion: Communicating the Benefits of Advanced Technologies to New Vehicle Buyers

Wednesday, April 3
Ballroom C

12:00 – 2:00 p.m.

Rebecca Lindland
Moderator
Independent Market Strategist

Kevin Ro
Panelist
Kevin S. Ro
Director/Group Manager
Toyota Motor North America Inc.

Jill Ingrassia
Panelist
Managing Director, Government Relations and Traffic Safety Advocacy
AAA

Joint Lunch with MobilityTalks International
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NADA

Susan Reineke
Panelist
Brand Manager
Reineke Family Dealerships

Kay Stepper
Panelist
Vice President, Head of Driver Assistance and Automated Driving North America, Chassis Systems Control
Robert Bosch LLC

Peter Welch
Panelist
President and CEO
National Automobile Dealers Association

For more details including speaker biographies, please go to sae.org/gim or the GI Mobile App.

Refer to the app for the most up-to-date program info.

All paid registration categories (SAE Member, Non-Members, Exhibitors and Students) will receive one luncheon ticket for each day. Lunch tickets will NOT be sold on-site at the event.

AWARDS & RECOGNITION

Awards to be presented at SAE 2019 Government Industry Meeting

SAE/INTERREGS STANDARDS AND REGULATIONS AWARD

Sue Bai
(スー、白雪)
Principal Engineer
ATR Division
Honda R&D Americas, Inc.

FOREST R. MCFARLAND AWARD

Rini Sherony
Sr. Principal Engineer
Collaborative Safety Research Center
Toyota Motor North America,
Research & Development

RALPH H. ISBRANT AUTOMOTIVE SAFETY ENGINEERING AWARD

Allen (Chuck) Bosio*
Vehicle Safety and CAE
Ford Motor Company Limited

Paul Marable*
Ford Motor
Company Limited

Bradley Staines*
Ford Motor
Company Limited

Marcus Ward*
Ford Motor
Company Limited

**Unable to Attend*

Awards Presentations & Keynote Luncheon

Thursday, April 4, 2019
12:30 - 2:00 p.m.

Keynote Speaker:
Amy Walter
Cook Political Report

Ballroom C

A LUNCH TICKET IS REQUIRED TO ATTEND THIS EVENT.

P19326166

SPECIAL EVENTS BY DAY

Thursday Keynote & Awards Luncheon

See page 11 for complete list of award recipients.

Thursday, April 4
Ballroom C
12:30 p.m. – 2:00 p.m.

Amy Walter
National Editor of the Cook Political Report
Host of WNYC's The Takeaway Fridays

Thursday Luncheon sponsored by

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All paid registration categories (SAE Member, Non-Members, Exhibitors and Students) will receive one luncheon ticket for each day. Lunch tickets will NOT be sold on-site at the event.

Thursday Plenary Roundtable Discussion: How are States Influencing Technology?

Thursday, April 4
Room 146 AB

3:00 p.m. – 5:00 p.m.

King Gee
Moderator
Director of Engineering and
Technical Services
AASHTO

Darrin Grondel
Panelist
Director
Washington Traffic Safety Commission

Angela Castro
Panelist
Senior Director Government Affairs,
Media Relations & Marketing
RTC of Southern Nevada

Kirk Steudle
Panelist
Sr Vice President Transportation
Systems, Econolite Control Products Inc.
Principal, CAVita

Kevin Barker
Panelist
Deputy Director
Fuels and Transportation Division
California Energy Commission

Jesse Way
Panelist
Climate Policy Analyst
Northeast States for Coordinated
Air Use Management (NESCAUM)

Friday Keynote

Friday, April 5
Room 146 AB

9:00 a.m. – 10:00 a.m.

Heidi King
Deputy Administrator
National Highway Traffic Safety
Administration

For more details including speaker biographies, please go to sae.org/gim or the GI Mobile App.

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THE WASHINGTON AUTO SHOW®
The Public Policy Show

YOUR SAE GOVERNMENT/INDUSTRY MEETING BADGE ADMITS YOU INTO THE FOLLOWING:

Thursday, April 4 | 9:00 a.m. – 5:00 p.m.
Public Policy and Media Days

5:00 – 8:00 p.m. | Auto Show Exhibit Halls
Sneak Peek Preview and VIP Reception

Friday, April 5
Public Day Opening at Auto Show

For more event details, go to **washingtonautoshow.com**.

OTHER AUTO SHOW EVENTS

Mobility Talks
Wednesday & Thursday, April 3-4

Consumer Days
April 5 – 14

FedFleet
April 9 - 11

P19331101

TECH SESSIONS WEEK AT A GLANCE

	WED		THU		FRI			
	AM	PM	AM	PM	AM	PM	Room No.	Page No.
Automated Driving Systems (G101)	-	✔	-	-	-	-	146 AB	18
Biomechanics (G107)	-	-	✔	-	-	-	145 AB	20
Commercial Vehicle Safety (G110)	✔	-	-	-	-	-	147 A	16
Connected Vehicles – Communicating with Cars (G112)	-	-	✔	-	-	-	147 A	20
Connected Vehicles – Communicating with Communities (G113)	-	-	✔	-	-	-	147 A	22
Crashworthiness (G105)	✔	-	-	-	-	-	145 AB	16
Driver Assistance Technologies (G102)	-	-	✔	-	-	-	146 AB	20
Driving Efficiencies in Freight Trucks: Vehicles, Technologies, Policies and Fuels Part 1 (G202)	-	-	✔	-	-	-	147 B	21
Driving Efficiencies in Freight Trucks: Vehicles, Technologies, Policies and Fuels Part 2 (G203)	-	-	✔	-	-	-	147 B	22
Electric Drive Part 1 - Panel Discussion: Models, Markets and Technology (G205)	✔	-	-	-	-	-	146 C	16
Electric Drive Part 2 – Infrastructure (G206)	-	✔	-	-	-	-	147 B	18
Future of Light Duty Liquid Fuels (G200)	✔	-	-	-	-	-	147 B	17
Integration of Active/Passive Safe (G109)	-	-	-	-	✔	-	145 AB	24
Light Duty CAFE/GHG: Today and Tomorrow (G209)	-	-	✔	-	-	-	146 C	22
New Mobility – Emerging Personal Mobility Options (G208)	-	-	-	-	✔	-	146 C	24
New Mobility – Technologies (Autonomous Vehicles) (G207)	-	-	✔	-	-	-	146 C	21
Non-conventional Seating in AVs (G103)	-	-	✔	-	-	-	146 AB	23
Panel Discussion: Battery Safety in Electric Vehicles (G114)	-	-	-	-	✔	-	147 A	24
Panel Discussion: Chemical Activities Impacting the Automotive Industry (G204)	-	-	-	-	✔	-	147 B	25
Panel Discussion: Cybersecurity / Privacy (G111)	-	✔	-	-	-	-	147 A	18
Panel Discussion: New Mobility – Freight Movement/ E-Commerce (G201)	-	✔	-	-	-	-	146 C	19
Partial and Conditional Automation of Vehicles – Challenges for Levels 2 and 3 (G100)	✔	-	-	-	-	-	146 AB	17
Pedestrians, Bicyclists, Motorcyclists, and other Vulnerable Road Users (G106)	-	✔	-	-	-	-	145 AB	19
Plenary Roundtable Discussion: How are States Influencing Technology? (G600)	-	-	-	✔	-	-	146 AB	23
Real-Word Data Collection – Meeting Future Safety Needs (G104)	-	-	-	-	✔	-	146 AB	25
The Human Factors of Automated Driving Systems (G108)	-	-	✔	-	-	-	145 AB	23

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GOVERNMENT/ INDUSTRY MEETING

MARK YOUR CALENDAR!

G/I MOVES BACK TO JANUARY IN 2020

January 22–24, 2020
Washington DC

sae.org/gim

P19332745

Commercial Vehicle Safety (G110)

9:45 a.m.

Room - 147 A

This session will focus on near- and long-term commercial vehicle safety technology research, product solutions, and potential application pathways.

Organizers:
Leigh S. Merino, Motor & Equipment Manufacturers Association; Alrik L. Svenson, NHTSA

9:55 a.m.
Commercial Vehicle Safety Most Wanted 2019 Focus on Driver Fatigue and Crash Avoidance Technologies
Robert Molloy, National Transportation Safety Board (NTSB)

10:15 a.m.
Accelerating the Deployment of Automatic Emergency Braking in Trucks
Kevin Grove, Virginia Tech. Transportation Institute

10:35 a.m.
Safety Analysis of Heavy Truck Platooning Systems
Douglas Pape, Battelle

10:55 a.m.
Application Pathways for Connected and Automated Commercial Vehicles
Aravind Kailas, Volvo Group North America

11:15 a.m.
Mirrorless Trucks: Better Safety Through Better Vision
Stephen Fox, Stoneridge, Inc.

Crashworthiness (G105)

9:45 a.m.

Room - 145 AB

This session will cover a variety of topics related to vehicle designs to improve crashworthiness in various crash modes. Presentations will focus on topics ranging from occupant restraint system designs to test methodologies.

Organizers:
Jeff Dix, Nissan North America Inc.; Kedryn Wietholter, NHTSA

9:55 a.m.
Effect of Test Setup and Seating Position Variance in Oblique Frontal Offset Tests
Rudolf Reichert, George Mason University

10:15 a.m.
Update on IIHS Side Impact Research
Raul A. Arbelaez, Insurance Institute for Highway Safety

10:35 a.m.
Factors Influencing the Correlation of Car-to-Car Testing and Moving Barrier to Car Testing in the IIHS Side Impact Research Testing
Anthony Dellicolli, Nissan Motor Co., Ltd.; Toyoshiku Ueda, Nissan Technical Center

10:55 a.m.
Update on Lower Interior Impacts to Seat Backs and B-pillars
Kedryn Wietholter, NHTSA

11:15 a.m.
Improving Occupant Protection with Revised Safety Belts
Carl E. Nash, Demet Ozkan, George Washington University

Panel Discussion: Electric Drive Part 1 - Models, Markets and Technology (G205)

9:45 a.m.

Room - 146 C

The global landscape for deployment of electric drive technology varies greatly by region. This panel will cover global trends in EV, including the policies driving these trends; and trends by region. The panelists will also discuss market trends, including improved technologies/ extended driving range and changes in consumer choice.

Organizers:
James H. Alvis, Kia Motors Corporation; Steven Boyd, DOE; Michael Safoutin, US EPA; Amandine Muskus, Association of Global Automakers Inc.

Moderator:
Amandine Muskus~ Association of Global Automakers Inc.

Panelists:
Robert Bienenfeld~ American Honda Motor Co. Inc.
Nick Nigro~ Atlas Public Policy
Bill Robertson~ California Air Resources Board (CARB)
Mahmet Ali Sener~ Daimler AG
Barbara Kiss~ General Motors

For more details including speaker biographies, please go to sae.org/gim or the GI Mobile App.

Refer to the app for the most up-to-date program info.

Future of Light Duty Liquid Fuels (G200)

9:45 a.m.

Room - 147 B

Most vehicles on the road today are powered by liquid fuels, and forecasts project liquid fuel-powered internal combustion engines will continue to be in the market for the next several decades. This session will explore the roles of liquid fuels for light-duty vehicles, including leveraging HOF, the retail perspective for such fuel formulations as HOF and E15, the role of additives in delivering high quality fuels and the outlook for light duty diesel vehicles and diesel fuel.

Organizers:
John Eichberger, Fuels Institute; Patrick Kelly, American Petroleum Institute; Paul A. Machiele, US EPA; Kevin Stork, US Department of Energy

9:55 a.m.
Continued Liquid Fuel Improvements Remain Essential for Vehicle Performance and Compliance
Bill Studzinski, General Motors

10:20 a.m.
The Role of Additives
Andrew McKnight, Innospec Fuel Specialties

10:45 a.m.
Future Fuels, a Retailers Perspective
Mike Lorenz, Sheetz Inc.

11:10 a.m.
Liquid Fuel Refiners: Delivering Today and Designing for Tomorrow
Bob Anderson, Chevron USA Inc.

Partial and Conditional Automation of Vehicles – Challenges for Levels 2 and 3 (G100)

9:45 a.m.

Room - 146 AB

This session includes presentations related to the deployment of partial and conditional automation systems and performance assessment of available systems. Presentations will cover current limitations on the operational design domain, hardware and software integration, naturalistic driving and test track performance of systems including limitations and driver adaptation/trust issues. Technologies and challenges related to development and deployment of L2/L3 features, integrating on-board sensors with off-board data and keeping driver in the loop will also be discussed.

Organizers:
Jessica Jermakian, Insurance Institute for Highway Safety; Rini Sherony, Toyota Motor North America Inc.

9:55 a.m.
Naturalistic Observations on the use of SAE L2 Partially Automated Driving Systems
Bryan Reimer, Massachusetts Institute of Technology (MIT)

10:15 a.m.
Assessing the Safety of Assisted Driving Systems
Matthew J. Avery, Thatcham Research

10:35 a.m.
Traffic Jam Assist Test Methodology
Erin Fogle, Transportation Research Center Inc. (TRC)

10:55 a.m.
AAA Level 2 AV Testing
Gregory D. Brannon, AAA National Office

11:15 a.m.
Toyota's Development of (SAE L2/L3) Automated Driving Systems
Derek Caveney, Toyota Motor North America Inc.

For more details including speaker biographies, please go to sae.org/gim or the GI Mobile App.

Refer to the app for the most up-to-date program info.

Automated Driving Systems (G101)

2:30 p.m.

Room - 146 AB

This session covers testing and deployment of vehicles with Automated Driving Systems (i.e., systems at SAE Levels 3 through 5) . Topics include: the perspectives of State governments on AV; an overview of SAE's own extensive standards development activities related to AV; an update on international activities related to these systems; Federal government activities related to safe deployment of cars and trucks with ADS and a survey of various efforts underway to develop safety tests for ADS.

Organizers:
Robert Pheiffer, InterRegs, Ltd.; Daniel Carey Smith, Waymo; Dee Williams, NHTSA

2:40 p.m.
State AV Policies: Protecting the Public while Promoting Innovation
Garrett Eucalitto, National Governors Association (NGA)

3:00 p.m.
Overview of the SAE On-Road Automated Driving (ORAD) Committee Efforts
Edward Straub, SAE International; George Nicols, Toyota Motor Corporation

3:20 p.m.
Current "State of Play" of International Certification/Regulatory Process and Validation Methods Development for Automated Vehicles
Peter Streikwold, RDW, Scott A. Schmidt, Alliance of Automobile Manufacturers Inc.; William Gouse, SAE International

3:40 p.m.
NHTSA's FMVSS Considerations for Vehicles with Automated Driving Systems
Lori K. Summers, USDOT-NHTSA; Jeff Loftus, USDOT-FMCSA

4:00 p.m.
Development of Safety Testing for Automated Driving Systems
Michelle Chaka, Virginia Tech. Transportation Institute

Electric Drive Part 2 – Infrastructure (G206)

2:30 p.m.

Room - 146 C

As electric vehicles gain market share, how will recharging infrastructure support them? This session will explore current and potential future EV charging infrastructure citing, consumer recharging behavior, the role of utilities and developments in charging technology and capabilities. Speakers also will explore the possible business models for EV recharging and challenges that must be addressed, such as cyber security and demands on the electricity grid.

Organizers:
Amanda Appelbaum, Fuels Institute; Steven Boyd, DOE

2:40 p.m.
The Evolving Battery Landscape and its Impact on Charging
John Warner, NATTBatt

3:05 p.m.
Charging Infrastructure Trends and Tools
Steve Lommele, National Renewable Energy Laboratory (NREL)

3:30 p.m.
Utility Roles in EV Charging Infrastructure
John Gartner, Navigant Consulting Inc.

3:55 p.m.
The Role of Gas Stations & C-Stores in e-Mobility
Deepesh Nayanar, Gilbarco Veeder-Root North America

Panel Discussion: Cybersecurity / Privacy (G111)

2:30 p.m.

Room - 147 A

This panel addresses the necessity of vehicle cybersecurity safety assurance and procedures and metrics to indicate the achievement of a certain level of safety performance including the protection of vehicle electronic systems, communication networks, control algorithms, software, and transportation system users. Additional insights on how to address cyber safety assurance from the perspective of government entities, OEMs, suppliers, public partners, and standard-setting bodies is discussed.

Organizers:
Arthur Carter, NHTSA; Ana M. Meuwissen, Robert Bosch LLC

Moderator:
Arthur Carter~ NHTSA

Panelists:
Lisa T. Boran~ Ford Motor Co., Ltd.
Urban Jonson~ National Motor Freight Traffic Association, Inc. (NMFTA)
Suzanne Lightman~ National Institute of Standards & Technology (NIST)
Brian T. Murray~ ZF - TRW
Yuval Weisglass~ HARMAN

For more details including speaker biographies, please go to sae.org/gim or the GI Mobile App.

Refer to the app for the most up-to-date program info.

Panel Discussion: New Mobility – Freight Movement/ E-Commerce (G201)

2:30 p.m.

Room - 147 B

This panel will explore the opportunities and risks of an E-Commerce world looking at both energy and environmental implications including international trade impacts. Panelists will explore the potential for new technologies and models to impact delivery services and the transportation environment writ large, as well as the potential for research, data-sharing, and policy change to do the same. The question of how to enhance quality of life in cities will take center stage, with the experts contributing their views on the future of energy efficient goods movement and what strategies will make a difference in the years ahead.

Organizers:
Cheryl L. Bynum, US EPA; Prasad A. Gupte, US Department of Energy; Thomas Madrecki, UPS

Moderators:
Thomas Madrecki~ UPS & Prasad A. Gupte~ US Department of Energy

Panelists:
Jose Holguin-Veras~ Rensselaer Polytechnic Institute
Amy Moore~ Oak Ridge National Laboratory (ORNL)
Michael Ruane~ Delaware Valley Regional Planning Commission
Constantine Samaras~ Carnegie Mellon University
Vignesh Ganapathy~ Postmates

Pedestrians, Bicyclists, Motorcyclists, and other Vulnerable Road Users (G106)

2:30 p.m.

Room - 145 AB

This session focuses on the high incidence of vulnerable road users involved in motor vehicle collisions. It covers crashworthiness and crash avoidance solutions to the problem. Data, testing, and technologies is presented. With regard to ADS, communication issues with VRUs are explained. Presentations will also include challenges related to the interaction of automated vehicles with pedestrians and cyclists.

Organizers:
Heath Albrecht, NHTSA; Jeffrey Skvarce, Continental Automotive Systems US Inc.

2:40 p.m.
Contrasting Vulnerable Road User Risk at Intersections and Non-Intersections
John Michael Sullivan, University of Michigan (UMTRI)

3:00 p.m.
Vulnerable Road User Protection to Achieve Vision Zero
Michael Wagner, Continental Automotive Systems Inc.

3:20 p.m.
Returning to Biomechanics To Design Autonomous Vehicles for Pedestrian Safety
Jason R. Kerrigan, University of Virginia

3:40 p.m.
NHTSA's Motorcycle Helmet Testing Research Program
Christian Nguyen, Shashi M. Kuppa, NHTSA

4:00 p.m.
Early Data and Insights from the Vulnerable Road User Injury Prevention Alliance (VIPA)
Jason F. Gainey, Volkswagen Group of America Inc.

For more details including speaker biographies, please go to sae.org/gim or the GI Mobile App.

Refer to the app for the most up-to-date program info.

Biomechanics (G107)

8:00 a.m.

Room - 145 AB

Presentations will focus on efforts to understand the human response to impact and associated injury risk. Topics in this session will include injury assessments in various crash modes and the development of new crash dummies and human body models. This session also addresses injury prediction methodologies and laboratory test procedures. Real-world epidemiology studies on human injuries may also be presented.

Organizers:
Ann E. Mallory, Transportation Research Center Inc. (TRC); Rodney Rudd, NHTSA

8:10 a.m.
Brain Injuries What can we do?
Cecilia Sunnevang, Autoliv Development AB

8:30 a.m.
Restraint Optimization for Obese Occupants
Hamed Joodaki, Jason R. Kerrigan, University of Virginia

8:50 a.m.
Challenges of Modeling Obese Occupants
Srinivasan Sundararajan, Ford Motor Co., Ltd.

9:10 a.m.
Age Differences in Occupant Motion during Simulated In-vehicle Evasive Swerving Maneuvers
Valentina Graci, Children's Hospital of Philadelphia

9:30 a.m.
Elderly Dummy Update and Thoughts on Vulnerable Occupants for AV
Jerry Wang, Humanetics Innovative Solutions Inc.

Connected Vehicles – Communicating with Cars (G112)

8:00 a.m.

Room - 147 A

This session covers issues related to V2V deployments and communications, including those related to communications with motorcycles. Connections between autonomous and normal vehicles will be presented. Implementation challenges will be examined such as sensor abilities, spectrum availability, human-machine interface issues, security and privacy challenges, and interoperability.

Organizers:
Sue Bai, Honda R&D Americas Inc.; Hannah Izon, Association of Global Automakers Inc.; Bob Kreeb, NHTSA; Paul Scullion, Association of Global Automakers Inc.

8:10 a.m.
Achieving Interoperability and Security in the Face of Advancing/ Changing Technology
Bob Kreeb, NHTSA

8:30 a.m.
V2X: Innovation and Interoperability, We Don't Have to Choose
John Kenney, Toyota Information Technology Center Co.

8:50 a.m.
The Evolution of 5G for the Automotive Industry
Andrew Boedigheimer-Thiessen, National Telecommunications & Information Administration

9:10 a.m.
Carriers View on V2X Direct vs. Non-direction Connectivity for Safety and Mobility Improvement
Matthew Montgomery, Verizon Wireless

9:30 a.m.
V2X Design- and Implementation-Considerations from a Motorcyclists Perspective
Florian Schellin, BMW Motorrad USA

Driver Assistance Technologies (G102)

8:00 a.m.

Room - 146 AB

This session focuses on further development and deployment of crash avoidance technologies and Level 1 vehicle automation systems. The operation of detection systems and crash imminent braking is described as well as test protocols and system assessments. Presentations are given on current technologies to assist drivers and mitigate vehicle collisions. Finally, topics regarding trust and acceptance by consumers of the technologies (including false alarms) will be included.

Organizers:
Garrick J. Forkenbrock, NHTSA; Tony Gioutsos, Tass International

8:10 a.m.
Latest Developments in AEB Technology & Consumer Testing
Colin Grover, Thatcham Research

8:30 a.m.
NHTSA's Draft Blind Spot Intervention and Opposing Traffic Safety Assist Research Test Procedures
Taylor R. Manahan, Transportation Research Center Inc. (TRC)

8:50 a.m.
NHTSA's Draft Intersection Safety Assist Research Test Procedure
Ian Davis, Transportation Research Center Inc. (TRC)

9:10 a.m.
Massive Simulation Approach to Ensure Proper Performance of Advanced Driver Assistance Systems
Paul A. Weal, Siemens PLM Software

9:30 a.m.
Virtual Environment Testing and the Benefits it Brings to Active Safety Development
Robert Hoffman, Dura Automotive Systems

For more details including speaker biographies, please go to sae.org/gim or the GI Mobile App.

Refer to the app for the most up-to-date program info.

Driving Efficiencies in Freight Trucks: Vehicles, Technologies, Policies and Fuels Part 1 (G202)

8:00 a.m.

Room - 147 B

While diesel is the prime technology for the majority of commercial vehicles, new fuels and technologies are gaining increased interest from policymakers, fleet users and industry. Commercial truck fuel efficiency requirements are now entering Phase 2 implementation. Discussions about future emissions standard for heavy duty on highway vehicle nitrogen oxides the Clean Truck Initiative - are now underway between EPA, CARB and Industry. This 2-part session explores existing and future vehicle technologies and operational approaches to reducing greenhouse gas emissions and nitrogen oxides then discuss the challenges and opportunities for existing and future fuels in the commercial vehicle sector.

Organizers:
Amanda Appelbaum, Fuels Institute; Kenneth Howden, US Department of Energy; George Mitchell, US EPA; Allen Schaeffer, Diesel Technology Forum

8:05 a.m.
Realizing the Potential: Next Steps for Heavy Dutys Low-NOx Future
Bill Robertson, California Air Resources Board (CARB); Brian Nelson, US EPA; Coralie Cooper, Northeast States for Coordinated Air Use Management (NESCAUM)

8:50 a.m.
Looking Back and Looking Forward: From EPA2010 and Phase 1 GHG, Toward Phase 2 GHG and Low-NOx
Matthew Spears, Truck & Engine Manufacturers Association

9:10 a.m.
Affordable Simultaneous Emissions and Efficiency Improvements from an Integrated Powertrain Systems Perspective
Mihai Dorobantu, Eaton Corporation

9:30 a.m.
Considerations of Fuels, Electrification and Strategies for Heavy-Duty Vehicles of the Future
Keith Brandis, Volvo Group North America

New Mobility – Technologies (Autonomous Vehicles) (G207)

8:00 a.m.

Room - 146 C

Travel behavior is changing, and transportation and technology companies are looking at novel approaches to accommodate these changes. This session will cover the current state of research and the role policy could play to mitigate negative environmental impacts with the introduction of autonomous vehicles (AVs). What are the unique and common concerns among stakeholders? What should be prioritized to support the introduction of safe and efficient AVs to meet the changing needs of our society?

Organizers:
Erin Boyd, US Department of Energy; Kristin S. Kenausis, US EPA; Jade Nobles, Toyota Motor Corp.

8:10 a.m.
Primer on AV Technology
Alisyn Malek, May Mobility Inc.

8:30 a.m.
Taking the Green Road: Challenges and Opportunities in Autonomous Vehicle Policy
Tony Dutzik, Frontier Group

8:50 a.m.
What We (Might) Know and Dont Know
Max Parness, Toyota Motor North America Inc.

9:10 a.m.
Energy Consumption by Autonomous Vehicles
David Gohlke, Argonne National Laboratory

9:30 a.m.
Presentation Title TBA
John M. Maddox, Lyft

For more details including speaker biographies, please go to sae.org/gim or the GI Mobile App.

Refer to the app for the most up-to-date program info.

Connected Vehicles – Communicating with Communities (G113)

10:15 a.m.

Room - 147 A

This session covers vehicle connectivity within pilot programs for SMART cities and other mobility safety programs including connectivity with pedestrians, road infrastructures, and traffic management systems. Topics include transportation policy, funding, and collaborations needed between from the public and private. Presentations from officials participating in Vision Zero projects are anticipated, with discussions on how roadway safety is integrated with speed limits and right-of-way rules.

Organizers:
Matthew Jerinsky, General Motors; Gene M. McHale, Federal Highway Administration

10:25 a.m.
Tampa (THEA) Connected Vehicle Deployment Project
Govindarajan C. Vadakpat, Federal Highway Administration (FHWA)

10:45 a.m.
New York City's Vision Zero
Ann Marie Doherty, New York City DOT

11:05 a.m.
Honda's Smart Intersection and V2X Pilot Deployment in Ohio
Sue Bai, Honda R&D Americas Inc.

11:25 a.m.
CARMA, Building an Open Source Community for Cooperative Automation
Taylor Lochrane, Federal Highway Administration (FHWA)

11:45 a.m.
Traffic Optimization for Signalized Corridors: Traffic-Level Simulation Results Summary
Roy W. Goudy, Nissan Group of North America

Driving Efficiencies in Freight Trucks: Vehicles, Technologies, Policies and Fuels Part 2 (G203)

10:15 a.m.

Room - 147 B

While diesel is the prime technology for the majority of commercial vehicles, new fuels and technologies are gaining increased interest from policymakers, fleet users and industry. Commercial truck fuel efficiency requirements are now entering Phase 2 implementation. Discussions about future emissions standard for heavy duty on highway vehicle nitrogen oxides the Clean Truck Initiative - are now underway between EPA, CARB and Industry. This 2-part session explores existing and future vehicle technologies and operational approaches to reducing greenhouse gas emissions and nitrogen oxides then discuss the challenges and opportunities for existing and future fuels in the commercial vehicle sector.

Organizers:
Amanda Appelbaum, Fuels Institute; Kenneth Howden, US Department of Energy; George Mitchell, US EPA; Allen Schaeffer, Diesel Technology Forum

10:25 a.m.
Energy Sources for HD Vehicles: Natural Gas for Commercial Vehicles
Kevin Stork, US Department of Energy

10:50 a.m.
Renewable Diesel - The Next-Generation Non-Fossil Solution
Matt Leuck, Neste Oil Corporation

11:15 a.m.
Diesel Fuel Quality in Modern Engines The Pursuit for Improvement
John Eichberger, Fuels Institute

11:40 a.m.
Electrification for Heavy Duty: Myths & Facts
Julie Furber, Cummins Inc.

Light Duty CAFE/GHG: Today and Tomorrow (G209)

10:15 a.m.

Room - 146 C

The auto industry has witness significant change in light duty fuel economy and vehicle GHG regulations. Separate and distinct mandates, the need to make long-term investment decisions in the face of evolving technology, and consideration of global markets and standards are key issues. This panel brings government, industry and policy experts to provide perspective, highlight technology and compliance concerns, and share views on shaping policy that helps us, collectively meet future goals.

Organizers:
Kevin Bolon, US Government; Laurie Holmes, Motor & Equipment Manufacturers Association; Kenneth R. Katz, NHTSA; James Kliesch, American Honda Motor Co. Inc.

10:25 a.m.
EPA's Future Assessment of Light Duty Vehicle Greenhouse Gas Emissions
Michael Olechiw, US EPA

10:45 a.m.
Presentation Title TBA
Kate Whitefoot, Carnegie Mellon University

11:05 a.m.
Perspectives on GHG Regulation: Finding the Balance Between What Customers Want and What the Future Industry Needs
Carla Bailo, Center For Automotive Research

11:25 a.m.
Presentation Title TBA
Brian McKay, Continental Automotive Systems Inc.

11:45 a.m.
Automaker Perspective on the Regulatory Landscape
Tom Stricker, Toyota Motor North America Inc.

For more details including speaker biographies, please go to sae.org/gim or the GI Mobile App.

Refer to the app for the most up-to-date program info.

Non-conventional Seating in AVs (G103)

10:15 a.m.

Room - 146 AB

Presentations focus on efforts to understand the human response to impact and associated injury risk associated with potential future seating configurations in autonomous vehicles (i.e. Reclined, Rotated, Rear Facing, Carriage Seating etc.). Topics include biomechanics, injury assessments in various crash modes and the development of new crash dummies and human body models,injury prediction methodologies and laboratory test procedures. Real-world epidemiology studies (CIREN) on human injuries.

Organizers:
John J. Combest, Nissan Technical Center; Daniel Parent, NHTSA

10:25 a.m.
ATD Seating in Highly Reclined Seats
Aloke Prasad, NHTSA

10:45 a.m.
Biomechanical Responses and Injury Assessment of Post Mortem Human Surrogates in Various Rear-facing Seating Configurations
Yun-Seok Kang, Ohio State University; Jason Stammen, NHTSA

11:05 a.m.
Human Model Occupant Kinematics in Highly Reclined Seats during Frontal Crashes
Kyle Boyle, University of Michigan (UMTRI)

11:25 a.m.
Biomechanical Responses of Pediatric Occupants in Non-Standard Seating Position
Jalaj Maheshwari, Aditya Belwadi, Children's Hospital of Philadelphia

11:45 a.m.
Biomechanical Challenges for Unconventional Seating Configurations?
Cecilia Sunnevang, Autoliv Development AB

The Human Factors of Automated Driving Systems (G108)

10:15 a.m.

Room - 145 AB

This session covers human factors of how different drivers use Automated Driving Systems (ADS) and Advanced Driver Assistance Systems (ADAS). Topics focus on accessibility issues for people with disabilities, methods of design for human-machine interfaces external to the vehicle, driver engagement strategies inside the vehicle, and long-term development strategies. Presentations will focus on how the human driver interacts with and uses automated features

Organizers:
Zachary J. Bolton, Continental Automotive Systems Inc.; Thomas Fincannon, NHTSA

10:25 a.m.
AV Communications to Other Road Users
John Shutko, Ford Motor Co., Ltd.

10:45 a.m.
Driver Engagement with ADS-Equipped Vehicles
Christian Jerome, NHTSA

11:05 a.m.
Accessibility for People with Disabilities
Speaker TBA

11:25 a.m.
Interactions Between Automated Driving Systems and Legacy Vehicles
James W. Jenness, Westat Inc.

11:45 a.m.
Humanizing Autonomy: How to Design Safe Hand-over and Take-over Scenarios for Highly Automated Driving
Thomas Voehringer-Kuhnt, Continental Automotive Systems Inc.

Plenary Roundtable Discussion: How are States Influencing Technology? (G600)

3:00 p.m.

Room - 146 AB

What began in California with regulations to reduce emissions has expanded to 13 states which have adopted California's LEV program while 7 states have passed legislation to allow automated vehicles to drive on the roads with 7 more states having pending legislation. Additionally, manufacturers are innovating at an unprecedented rate.

Moderator:
King Gee~ AASHTO

Panelists:
Darrin Grondel~ Washington Traffic Safety Commission
Angela Castro~ RTC of Southern Nevada
Kirk Steudle~ Econolite Control Products Inc. & CAVita
Kevin Barker~ California Energy Commission
Jesse Way~ Northeast States for Coordinated Air Use Management (NESCAUM)

For more details including speaker biographies, please go to sae.org/gim or the GI Mobile App.

Refer to the app for the most up-to-date program info.

Integration of Active/ Passive Safe (G109)

10:15 a.m.

Room - 145 AB

New safety control systems that are aware of the environment around the vehicle is the focus of this session. Presentations cover how the systems anticipate and react to hazardous situations, and how adjustments to steering, braking, seat belts, and other passive safety devices are made.

Organizers:
Saeed David Barbat, Ford Motor Co., Ltd.; Sanjay Patel, NHTSA

10:25 a.m.
Measuring and Modeling Occupant Responses During Abrupt Vehicle Maneuvers
Jingwen Hu, Matthew Reed, Sheila Ebert, Monica Jones, Byoung-Keon Park, University of Michigan (UMTRI)

10:45 a.m.
Acting Before the Crash - The Relevance of Pre-triggered Systems within an Integral Safety Strategy
Jochen Feese, Mercedes-Benz AG

11:05 a.m.
Partial Automation of Vehicles Challenges to Reach Level 2 and 3
Klaus Kompass, BMW Group

11:25 a.m.
Preparing for the Future with Safe, Intelligent Mobility
Mutaz Shkoukani, Leonard Cech, Joyson Safety Systems; Ingo Kalliske, Joyson Safety Systems Aschaffenburg GmbH;

11:45 a.m.
Passive and Active Integration Technology and Process
Chuck Bartlett, Raad Konja, ZF Group

New Mobility – Emerging Personal Mobility Options (G208)

10:15 a.m.

Room - 146 C

This session will explore innovative emerging personal mobility across a range of options as it relates to cities, big data, transit, and the growing options for first/last mile micro-mobility.

Organizers:
William P. Chernicoff, Toyota Motor North America Inc.; Meredith Cleveland, US EPA; Rachael Nealer, US Department of Energy; Lisa Snapp, US EPA

10:25 a.m.
Recent Advances and Trends in Personal Mobility in Cities
Shruti Vaidyanathan, American Council for an Energy Efficient

10:50 a.m.
Mobility Innovation: Complete Trips for All
Christina Gikakis, DOT

11:15 a.m.
Presentation Title TBA
Melinda Hanson, BIRD

11:40 a.m.
Advanced Technology Solutions for Promoting New and Greener Personal Mobility Options
Lei Zhang, University of Maryland

Panel Discussion: Battery Safety in Electric Vehicles (G114)

10:15 a.m.

Room - 147 A

This panel will bring experts together to have discussions on safe battery design for electric-powered vehicles. Statistical relevance, incidence levels, and case studies of vehicle battery fires will covered, along with challenges for safe battery designs vs. higher energy density, testing protocols and requirements as well as proper fire extinguishment. The format will consist of 5 minute presentations by each panelists.

Organizers:
Raul A. Arbelaez, Insurance Institute for Highway Safety; Thomas Barth, NTSB

Moderators:
Raul A. Arbelaez~ Insurance Institute for Highway Safety & Thomas Barth~ NTSB

Panelists:
Andrew Klock~ National Fire Protection Association (NFPA)
Josh Lamb~ Sandia National Laboratories
Galen Ressler~ General Motors
Elham Sahraei~ Electric Vehicle Safety Laboratory, Temple University
Makoto Yoshida~ Nissan Motor Corporation

For more details including speaker biographies, please go to sae.org/gim or the GI Mobile App.

Refer to the app for the most up-to-date program info.

Panel Discussion: Chemical Activities Impacting the Automotive Industry (G204)

10:15 a.m.

Room - 147 B

This panel session will discuss new State initiatives covering Lithium Ion, Lead Acid batteries, Zinc in tires, vehicle fluid leaks and others, as well as, Federal certification and compliance topics that may affect OEM & suppliers decisions on material, engineering and manufacturing choices.

Organizers:
Laurie Holmes, Motor & Equipment Manufacturers Association; Daniel J. Selke, Mercedes-Benz USA LLC

Moderator:
Maureen F. Gorsen~ Alston & Bird LLP

Panelists:
Terri Goldberg~ NEWMOA
Marc Janssens~ Southwest Research Institute (SWRI)
Thomas Lewandowski~ Gradient Corporation
James Lundstrom~ Volvo Car Corporation
Karl Palmer~ Department of Toxic Substances Control (CA DTSC)

Real-Word Data Collection – Meeting Future Safety Needs (G104)

10:15 a.m.

Room - 146 AB

This session is devoted to analyses based on real-world data, includeing effectiveness studies of driver assistance technologies. Presentations focus on how real-world data is being applied to make product decisions to address the safety needsas well as data needs for an increasingly automated future as new technologies are incrementally deployed.

Organizers:
Chou-Lin Chen, NHTSA; David S. Liu, American Honda Motor Co. Inc.

10:25 a.m.
Partnership in Analytics and Research in Transportation Safety (PARTS): Demonstrating the Success of the Partnership Model
Joseph Kolly, NHTSA; Tim Czapp, Fiat Chrysler Automobiles (FCA)

10:45 a.m.
Real World Data on Crash Avoidance Effectiveness
Jessica Cicchino, Insurance Institute for Highway Safety

11:05 a.m.
Data Collection and Analysis for ADAS System Design and Benefit Estimation
Rini Sherony, Toyota Motor Corporation

11:25 a.m.
Field Study of Light Vehicle Automatic Emergency Braking (AEB) and Dynamic Brake Support (DBS)
Bob Kreeb, Jenny Zhang, NHTSA

11:45 a.m.
Updates on NHTSA's Crash Data Systems and DOT's Safety Data Initiative
John E. Brophy, Rajesh Subramanian, NHTSA

For more details including speaker biographies, please go to sae.org/gim or the GI Mobile App.

Refer to the app for the most up-to-date program info.

PARTICIPANTS INDEX

EXHIBITOR PROFILES

Exhibitor Directory text is published as submitted by exhibiting companies.

ALLIANCE FOR VEHICLE EFFICIENCY — Booth 7

1155 F St NW Ste 1050
Washington, DC 20004
United States

vehicle-efficiency.com

The Alliance for Vehicle Efficiency (AVE) is a policy organization for leading automotive suppliers focused on vehicle efficiency and emissions. We advocate for federal and state regulations that are meaningful and achievable. We support globally competitive, technology neutral policies that will increase American jobs and innovation leadership.

APPLUS IDIADA — BOOTH 1

9270 Holly Rd
Adelanto, CA 92301
United States

idiada.com

Applus IDIADA, an international engineering company with over 2,500 professionals, provides product development services to the automotive industry worldwide, with presence in 24 countries, including the USA (California and Michigan), where it provides safety test, engineering and certification services. Its passive safety lab, located in California, has been supporting NHTSA programs since 1996.

CALSPAN CORP — Booth 8

4455 Genesee St
Buffalo, NY 14225
United States

calspan.com

For over 75 years, Calspan has been supporting initiatives that drive domestic & global innovation. Calspan's staff develop and execute tests at their state-of-the-art research laboratories for sled testing, performance tire testing, and automotive crash testing, of which was recognized as the "2018 Crash Test Facility of the Year".

HUMANETICS INNOVATIVE SOLUTIONS INC — Booth 11

23300 Haggerty Rd
Farmington Hills, MI 48335
United States

humaneticsatd.com

Humanetics is the leading global designer, manufacturer and supplier of crash test dummies and calibration equipment, crash sensors and instrumentation and crash simulation software models. Humanetics also offers a growing portfolio of active safety testing products for ADAS and autonomous vehicles, including over-runnable test platforms and driving robots. Additionally, Humanetics sister companies develop and supply custom force, load, torque and pressure electrical strain gage and fiber optic sensor solutions and provide advanced strain gage application services.

INTERREGS LTD — Booth 6

CONFERENCE SUPPORTER

21-23 East Street
Fareham PO16 0BZ
United Kingdom

interregs.com

InterRegs are the premier online resource for up-to-date, global vehicle safety and emissions regulations. We cover 70 territories and subjects, including EC Directives, ECE Regulations, FMVSS, US States, CMVSS, China, Autonomous, Electrical and Electronic, Emissions, Type Approval and more. All regulations are published in English and frequently updated.

SIEMENS PLM SOFTWARE — Booth 2

5800 Granite Pkwy Ste 600
Plano, TX 75024
United States

siemens.com/plm

Siemens PLM Software is a world-leading provider of product lifecycle management (PLM) software. We help thousands of companies make great products by optimizing their lifecycle processes, from planning and development through manufacturing and support. For more information visit our website.

VIRGINIA TECH TRANSPORTATION INSTITUTE — Booth 10

3500 Transportation Research Plz
Blacksburg, VA 24060
United States

vtti.vt.edu

VTTI is dedicated to advancing safety through innovation. The institute collaborates with industry leaders and government agencies to develop, test, and deploy advanced vehicle technologies. A leader in conducting large-scale naturalistic driving studies, test-track evaluations, and on-road studies, VTTI has a proven history of providing real-world performance data for impactful analytics, simulations, and analyses.

WESTAT INC — Booth 5

1600 Research Blvd
Rockville, MD 20850
United States

westat.com

Westat provides innovative professional services support to clients in addressing challenges to improve outcomes in transportation, social policy, health, and education. Our experts in driver behavior, technology evaluation, traffic operations, and field surveys support government and private industry initiatives. We are dedicated to improving lives through research.

EXHIBITOR PROFILES

UNIVERSITY DISPLAY: DURING THE WEDNESDAY RECEPTION

GEORGE WASHINGTON UNIV — Booth B

800 22nd St NW
Washington, DC 20052
United States
gwu.edu

GW Baja consists of a 20-person team bringing backgrounds in mechanical, electrical, civil, aerospace, robotics, and biomechanical engineering, who are passionate about the work required to create a competition vehicle. We are committed to building a team and car we are all proud of.

TERPS RACING ELECTRIC VEHICLE — Booth E

2347 AV Williams Bldg
8223 Paint Branch Dr
College Park, MD 20740
United States
racing.umd.edu

The University of Maryland's Terps Racing is a student organization that designs, build, tests and races three race cars each year to compete in Society of Automotive Engineers (SAE) Collegiate Design Series (CDS) challenges. Terps Racing participates in the Formula SAE, Baja SAE and Formula SAE Electric competitions.

UMBC RACING — Booth A

1000 Hilltop Cir
Baltimore, MD 21250
United States
sae.umbc.edu

UMBC Racing is a collegiate vehicle design team that designs and builds a custom ATV, manufacturing more than 80% of the vehicle in house. We then compete in SAE's racing series across the United States against elite teams from around the world where we finished 8th overall over 3 competitions.

UMD – TERPS RACING BAJA — Booth D

JM Patterson 1225 Bldg
College Park, MD 20742
United States
racing.umd.edu

The University of Maryland's Terps Racing is a student organization that designs, build, tests and races three race cars each year to compete in Society of Automotive Engineers (SAE) Collegiate Design Series (CDS) challenges. Terps Racing participates in the Formula SAE, Baja SAE and Formula SAE Electric competitions.

UNIV OF MARYLAND / TERPS RACING FSAE — Booth C

4356 Stadium Dr
College Park, MD 20742
United States
racing.umd.edu

The University of Maryland's Terps Racing is a student organization that designs, build, tests and races three race cars each year to compete in Society of Automotive Engineers (SAE) Collegiate Design Series (CDS) challenges. Terps Racing participates in the Formula SAE, Baja SAE and Formula SAE Electric competitions.

MARTINSVILLE/HENRY COUNTY NATIONAL SOCIETY OF BLACK ENGINEERS — Booth F

991 Laurel Park Ave
Martinsville, VA 24112
United States
mhcnsbe.org

A fuel cell vehicle is a vehicle which uses a fuel cell, instead of a battery or a fuel cell and a battery to power the vehicle. Using a Proton-Exchange Membrane Fuel Cell as the primary power source, the students design, build, and test prototype vehicles. A World in Motion Fuel Cell vehicle challenges students to explore physical science concepts. Those concepts include force, friction and energy transformations, as well as green design environmental concepts. Additionally, the challenge incorporates mathematics concepts such a collecting, analyzing and displaying data.

AD INDEX

The SAE/InterRegs Standards & Regulations Award 2019

The SAE/InterRegs Standards & Regulations Award was established in 2001 by InterRegs, as a way to reward and encourage increased participation in this field.

Get your nominations in now for the 2020 SAE/ InterRegs Standards & Regulations Award - the winner is presented with a $1000 honorarium and award trophy!

Congratulations

to our 2019 Award Winner!

Sue Bai
Principal Engineer at
Honda R&D Americas, Inc.

Previous winners of this prestigious award have included:

2018 Award Winner

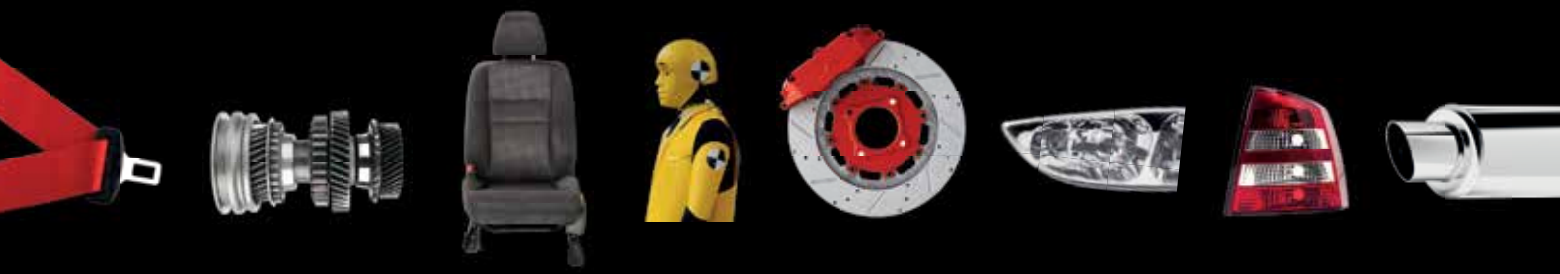
Steve Spata, Technical Assistance Director - Ambulance Manufacturers Division at National Truck Equipment Association, USA:

"Just being nominated for the SAE/ InterRegs Standards & Regulations Award is a massive honor, let alone being selected, and it is a career highlight for me to accept it on behalf of a fantastic team of dedicated professionals that have all contributed to the success of our ambulance occupant safety research program over the last decade. I am very grateful for the recognition of this work and the ability that my organization has provided for me to take part in it."

2017 Award Winner

Richard Scholer, Global Manager - Electrified Powertrain Systems at Fiat Chrysler Automobiles, USA:

"I am honored to join a distinguished list of past SAE/ InterRegs Standards & Regulations Award winners. By chairing the new standards for Plug-In Electric Vehicle Communication and Interoperability, this team's effort will foster a common approach between global markets while affording local variations. Recognition from SAE and InterRegs is truly rewarding, and I thank those who nominated me for this prestigious award."



For more information visit the Award page at www.interregs.com or contact the SAE Award Staff at awards@sae.org.

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