ABOUT THE COMVEC™ TECHNOLOGY CONNECTION PROGRAM

The COMVEC™ Program is developed by the Executive Council that is comprised of 58 engineering leaders. This program was created to ensure that the event content is relevant, valuable and sustainable for the future. This year’s event will feature two “vertical” symposia tracks and nearly 20 expert panel discussions.

• Symposia “hot-topic” tracks are focused on strategic and business-related issues, with the goal to have expert panelists provide their perspective and engage with attendees during Q&A.

• Expert Panel Discussions are more in-depth sessions on specific topics and allow the technical panel to be an interactive session followed by Q&A. These sessions are geared toward individuals working in the technology area as well as individuals wanting to learn more.

• The L. Ray Buckendale Lecture provides procedures and data useful in formulating solutions and is directed primarily by an industry leader to the needs of young engineers and students with emphasis on practical aspects of the topic.

“COMVEC 2018 brings both commercial vehicle professionals and technology leaders from outside of the traditional Commercial Vehicle industry together and engages in a dialogue on disruptive technologies that will transform the industry and its business model in the coming years.”

Dennis “Denny” Mooney
Executive Chair
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8–9 a.m.</td>
<td>Young Professionals Meet &amp; Greet</td>
</tr>
<tr>
<td>8:30–9 a.m.</td>
<td>Morning Coffee - Sponsored by Oshkosh</td>
</tr>
<tr>
<td>9–10 a.m.</td>
<td>Opening Ceremony &amp; Keynote - Troy Clarke, Chairman, President &amp; CEO, Navistar</td>
</tr>
<tr>
<td>10–10:30 a.m.</td>
<td>Networking Break In Exhibit Hall - Sponsored by Sears Seating</td>
</tr>
<tr>
<td>10:30 a.m.–Noon</td>
<td>Event of Big Data for Advanced Technology Symposium - Autonomous / ADAS</td>
</tr>
<tr>
<td>10:30 a.m.–Noon</td>
<td>CV Efficiency Symposium - Advanced Emission Regulations</td>
</tr>
<tr>
<td>10:30 a.m.–Noon</td>
<td>Total Vehicle Mechatronics and Integration Committee: Artificial Intelligence and Machine Learning</td>
</tr>
<tr>
<td>10:30 a.m.–Noon</td>
<td>Aerodynamics Committee - Organic Truck - Drag Reduction</td>
</tr>
<tr>
<td>10:30 a.m.–Noon</td>
<td>Manufacturing for the Next</td>
</tr>
<tr>
<td>Noon-1:30 p.m.</td>
<td>Lunch in Exhibit Hall</td>
</tr>
<tr>
<td>1:30–3 p.m.</td>
<td>CV Powertrain Efficiency</td>
</tr>
<tr>
<td>2:30–3 p.m.</td>
<td>Total Vehicle Mechatronics and Integration Committee: Connected Vehicles / Platooning</td>
</tr>
<tr>
<td>2:30–3 p.m.</td>
<td>Aerodynamics Committee - Full-Scale Assessments</td>
</tr>
<tr>
<td>2:30–3 p.m.</td>
<td>Where are We now and Should We Still be Paranoid-CyberSecurity?</td>
</tr>
<tr>
<td>2:30–5 p.m.</td>
<td>CV Electrified and Hybrid Powertrains</td>
</tr>
<tr>
<td>3:30–5 p.m.</td>
<td>Total Vehicle Mechatronics and Integration Committee: Autonomous / ADAS</td>
</tr>
<tr>
<td>3:30–5 p.m.</td>
<td>Aerodynamics Committee - Optimizing Multi-Vehicle Flow Interference</td>
</tr>
<tr>
<td>3:30–5 p.m.</td>
<td>ICE Powertrain Efficiency</td>
</tr>
<tr>
<td>4:5–6 p.m.</td>
<td>Networking Reception in Exhibit Hall - Sponsored by Eaton</td>
</tr>
<tr>
<td>5–6:30 p.m.</td>
<td>Welcome Reception in Exhibit Hall</td>
</tr>
<tr>
<td>8:30–9 a.m.</td>
<td>Morning Coffee - Sponsored by Eaton</td>
</tr>
<tr>
<td>9–10 a.m.</td>
<td>Opening Keynote - Ranju Das, General Manager, Amazon</td>
</tr>
<tr>
<td>10–10:30 a.m.</td>
<td>Networking Break In Exhibit Hall - Sponsored by Allison Transmission</td>
</tr>
<tr>
<td>10:30 a.m.–Noon</td>
<td>CV Efficiency Symposium - Autonomous / ADAS</td>
</tr>
<tr>
<td>10:30 a.m.–Noon</td>
<td>Aerodynamics Committee - Unsteady Flow</td>
</tr>
<tr>
<td>10:30 a.m.–Noon</td>
<td>Chassis Committee - CAE: Vehicle System Level Development</td>
</tr>
<tr>
<td>Noon-2 p.m.</td>
<td>Keynote &amp; Awards Lunch - Bill Driegert, Director, Uber Freight</td>
</tr>
<tr>
<td>2:30–3 p.m.</td>
<td>Powertrain Committee - Student ICE Research Projects (MS and PhD Candidates)</td>
</tr>
<tr>
<td>2:30–3 p.m.</td>
<td>Expert Panel Discussion: Managing Technology Disruptions</td>
</tr>
<tr>
<td>2:30–3 p.m.</td>
<td>Chassis Committee - CAE: Vehicle Sub-system and Component Development</td>
</tr>
<tr>
<td>3:30–4 p.m.</td>
<td>Networking Break in Exhibit Hall &amp; Young Professionals Speed Mentoring</td>
</tr>
<tr>
<td>4:5–5:30 p.m.</td>
<td>Powertrain Committee - Aftertreatment Panel</td>
</tr>
<tr>
<td>4:5–5:30 p.m.</td>
<td>Expert Panel Discussion: Emerging Technology Standards</td>
</tr>
<tr>
<td>4:5–5:30 p.m.</td>
<td>Chassis Committee - Uncertainty Quantification and Robust Design</td>
</tr>
<tr>
<td>5:30–6:30 p.m.</td>
<td>Networking Reception in Exhibit Hall - Sponsored by Navistar</td>
</tr>
<tr>
<td>8–8:30 a.m.</td>
<td>Buckendale Breakfast</td>
</tr>
<tr>
<td>8:30–9:15 a.m.</td>
<td>Buckendale Lecture - Kirk T. Steudle, Director, Michigan Department of Transportation</td>
</tr>
<tr>
<td>9:30–10 a.m.</td>
<td>Networking Break</td>
</tr>
<tr>
<td>10–11:30 a.m.</td>
<td>Event of Big Data for Advanced Technology Symposium - Prognostics</td>
</tr>
<tr>
<td>10–11:30 a.m.</td>
<td>Powertrain Committee - Alternative Fuels and Propulsion Systems - EVs and Hybrids</td>
</tr>
<tr>
<td>10–11:30 a.m.</td>
<td>Expert Panel Discussion: History and Future of SAEJ1959</td>
</tr>
<tr>
<td>10–11:30 a.m.</td>
<td>Expert Panel Discussion: Disruption from Beyond - Outside Perspectives that May impact the CV industry</td>
</tr>
<tr>
<td>11:30 a.m.–12:30 p.m.</td>
<td>Networking / Grab &amp; Go Lunch</td>
</tr>
</tbody>
</table>

TECHNICAL DISPLAY HOURS
- Tuesday: 10 a.m.–6:30 p.m.
- Wednesday: 10 a.m.–6:30 p.m.

REGISTRATION HOURS
- Tuesday: 7:30 a.m.–4:30 p.m.
- Wednesday: 8 a.m.–4:30 p.m.
- Thursday: 8–11 a.m.

Event-At-A-Glance as of July 12, 2018
Participants in the commercial vehicle industry are engaging with a range of technologies that have the power to transform the industry and the way it does business. Troy Clarke, chairman, president and CEO of leading truck and bus maker Navistar, shares his company’s vision for the industry’s future and the role these technologies can play in benefiting both individual industry participants and society at large.

WEDNESDAY KEYNOTE – 9 a.m.
Ranju Das
Director
Amazon Rekognition
“How Amazon is helping businesses use Artificial Intelligence”

THURSDAY BUCKENDALE LECTURE KEYNOTES – 8:30 a.m.
Kirk Steudle
Director
Michigan Department of Transportation (MDOT)

Niles Annelin
Transportation Policy Specialist
Asset Management and Policy Division
Bureau of Transportation

“Transformational Technologies Reshaping Transportation, a Government Perspective”

WEDNESDAY KEYNOTE & AWARDS LUNCHEON – 12 p.m.
Bill Driegert
Director,
Uber Freight
“Delivering Value Through Innovation”
WEDNESDAY, SEPTEMBER 12

AUTONOMOUS/ADAS
10:30 a.m. – NOON

In this symposium, industry leaders will present perspectives on the state-of-the-art of autonomous and ADAS technologies. They will also discuss the evolution from today’s advanced driver assistance systems to higher levels of automation and opine on the hurdles and pitfalls that will need to be overcome. Similar to the interoperability of the multitude of systems – we will need to make sure that policies and regulations are common across states and possibly countries (North America) in order to ensure regulatory compliance.

MODERATOR
Daniel E. Williams, ZF

PANELISTS
Hidehiko Enomoto, Hino Motors, Ltd.
Ross Froat, American Trucking Associations
Richard Hanowski, Virginia Tech
Andreas Johansson, Scania
Andrew Rekow, John Deere & Co.

CONNECTIVITY/CONNECTED VEHICLE
2 – 3:30 p.m.

Connectivity brings about a rapid increase in data intake during the engineering phase of new vehicles, which in turn leads to opportunities as well as challenges in data security, analysis methods, IT infrastructure, to name a few. The panel for this session discusses the various technologies, standards, and possibilities for services and vehicle efficiency improvements. It also covers the current and future challenges such as cyber security and data exchange that the current and future V2X technologies bring with them.

MODERATOR
Stephan Tarnutzer, FEV

PANELISTS
Charles Conway, John Deere
Gregg Garrett, CGS
Phill Lawson-Shanks, EdgeConneX
Micha Muenzenmay, Bosch
Sanjay Ravi, Microsoft

BIG DATA, ANALYTICS, AND CYBER SECURITY – “UPPING THE GAME”
4 – 5:30 p.m.

Big data and analytics are showing promise with improving cyber security. Of course, there are still many challenges as new cyber security threats are popping up daily. Cyber security needs the risk management and actionable intelligence that is common from big data analysis. While it is great to have tools that can analyze data, the key is to automate tasks so that the data are available more quickly and the analysis is sent to the right people on time. To this point, Big data will also help analysts to visualize cyberattacks by taking the complexity from various data sources and simplifying the patterns into visualizations. Come hear Cyber Experts talk about the challenges and opportunities in utilizing Big Data for improving Cyber Security for the Commercial Vehicle Industry.

MODERATOR
Gloria D’Anna, General Telecom Systems

PANELISTS
Ryan Brander, GEOTAB
Vince Crisler, Dark Cubed Inc.
Tamas Cser, Functionize
Richard Enbody, Michigan State University
Simon Hartley, RunSafe Security Inc.
Mark Zachos, DG Technologies

THURSDAY, SEPTEMBER 13

PROGNOSTICS
10 – 11:30 a.m.

Diagnostics have been around for a long time and are well understood and standardized. Huge amounts of diagnostic data have piled up over the years. Many variants and dimensions must be supported. Fortunately, the data is machine readable. This presentation gives an overview of the evolution of big data techniques to promote prognostic development and shows some case studies for the next generation of prognostics development.

MODERATOR
Mark N. Pope, DG Technologies

PANELISTS
Phil D’Eon, Casebank Technologies Inc.
Andreas Henge, RA Consulting GMBH
Troy Schilling, Robert Bosch LLC
Evandro Silva, Volvo Trucks North America
Peter Subke, Softing Automotive Electronics GmbH
TUESDAY, SEPTEMBER 11

ADVANCED GLOBAL EMISSION REGULATIONS
10:30 a.m. – Noon

This panel will discuss global heavy-duty, on-road and non-road emissions regulations, including the compliance mechanisms used around the world. There will be a particular focus on California and the emerging markets. The high-level technical challenges and diverse potential solutions different regions are employing associated with regulations, compliance, fuels and test methodologies will also be included.

MODERATOR
Timothy Johnson, Corning Inc. (ret)

PANELISTS
Anup Bandivadekar, ICCT
Jason Quaranto, Navistar
William Robertson, California Air Resources Board
Matthew Spears, EMA
Lukas Walter, AVL LIST GmbH

ICE POWERTRAIN EFFICIENCY
1:30 – 3 p.m.

Commercial vehicle and internal combustion engines have seen significant improvements over past years, but recent stringent requirements to meet phase-II GHG and emissions standards further pushed the boundaries that requires improvement in ICE powertrain efficiency and Aftertreatment technologies. The adoption of these new technologies depends upon the commercial feasibility that includes system / operating cost, reliability and customer adaptation to such powertrain features. The possible low NOx requirements will further require enhancement in aftertreatment technologies, control strategies and integration challenges with powertrain system. This symposium seeks to explore the approaches to technologies that improve the ICE efficiency, emission solutions and market readiness to accept such Powertrain solution.

MODERATOR
Jonathon White, Cummins Inc.

PANELISTS
Brent Keppy, Robert Bosch
Michael Franke, FEV North America Inc.
Philip Fehn Gronberg, CNH Industrial
Philip W. Stephenson, PACCAR Technical Center
Christian Weiskirch, Traton

ELECTRIFIED AND HYBRID POWERTRAINS
3:30 – 5 p.m.

Commercial vehicle and equipment powertrains have seen many changes over the past decades, however one of the most significant changes will be the broad-based adoption of hybridization and electrification. These new powertrains present many challenges to industry including, the system integration with conventional IC engines, emissions compliance across operating cycles, supporting infrastructure for charging, and service and maintenance. This symposium seeks to explore the approach of OEM’s from different segments, discuss their approach to the challenges and the unique aspects of the multiple applications.

MODERATOR
Dimitri N. Kazarinoff, AVL North America Inc.

PANELISTS
Martin Bush, John Deere Harvester Works
Tom Dollmeyer, Cummins Inc.
Mihai Dorobantu, Eaton Vehicle Group
Darren Gosbee, Navistar Inc.

WEDNESDAY, SEPTEMBER 12

DISRUPTIVE TECHNOLOGIES
10:30 a.m. – Noon

This panel will investigate the impacts of disruptive technologies on the national infrastructure. Topics for discussion include: impediments to creating the infrastructure (political, economic, timing; required infrastructure improvements; status of the electric grid; and fuel supply, including natural gas. This panel will not delve into the actual technology details, those are topics for the technical committees.

MODERATOR
Steven Sokolsky, CALSTART

PANELISTS
Michael Berube, U.S. Department of Energy
Scott Phillippi, UPS
Charlie Silio, Agility Fuel Systems
Wolfgang Warnecke, Shell Global Solutions
(Deutschland)GmbH
TOTAL VEHICLE COMMITTEE EXPERT PANEL DISCUSSIONS

TOTAL VEHICLE MECHATRONICS AND INTEGRATION COMMITTEE: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
Tuesday, September 11, 10:30 a.m. – Noon

It is a fascinating time for the transport industry as Artificial Intelligence (AI) applications are taking center stage in R&D. One thing for certain is that artificial intelligence will play a very important role in shifting the current landscape of the transport industry, by going above and beyond what the human brain alone can do. The race is long and many challenges must be faced to come up with safe, viable, and robust systems.

MODERATOR
Parvate-Patil Girish, Caterpillar

PANELISTS
Ron Demcko, AVX
Joe Verrengia, Arrow Electronics

TOTAL VEHICLE MECHATRONICS AND INTEGRATION COMMITTEE: CONNECTED TECHNOLOGY: DELIVERING VALUE IN FUTURE COMMERCIAL VEHICLES WITH CONNECTIVITY AND ADVANCED SHARED SERVICES
Tuesday, September 11, 1:30 – 3 p.m.

Connected vehicles are being discussed everyday including platooning and ADAS. These technologies are starting to converge as the commercial vehicle industry looks to improve both fleet and vehicle efficiency while improving safety. This panel will discuss the challenges and opportunities of today and tomorrow’s innovators as they faced the technologies head-on to realize the future.

MODERATOR
Ethan Seifer, Cummins Inc.

PANELISTS
Andrew Dondlinger, Navistar
Chuck Price, TuSimple
Aymeric Rousseau, Argonne National Laboratory

TOTAL VEHICLE MECHATRONICS AND INTEGRATION COMMITTEE: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
Tuesday, September 11, 3:30 – 5 p.m.

ADAS Technology is becoming a norm in trucking because of the high potential to reduce risk and keep drivers safe. With these technologies, the development of highly automated commercial vehicles is possible. The discussions in this panel will highlight the challenges and opportunities of technology developers as they tackle this complex topic.

MODERATOR
Brendan Chan, Navistar Inc.

PANELISTS
Daniel Aceituna, DISTek Integration Inc.
Jace Allen, dSPACE Inc.
Pamela Gauci, Velodyne LiDAR
Fabian Jorg Uwe Koark, Invensity Inc.
Jason Lee Palmer, Smart Drive
CHASSIS COMMITTEE EXPERT PANEL DISCUSSIONS

CAE VEHICLE SYSTEM LEVEL DEVELOPMENT
Wednesday, September 12, 10:30 a.m. – Noon

This panel will focus on whole vehicle system level performance development using CAE tools. Topics could include but not limited to:

• How are the customers’ voice cascaded to vehicle performance?
• How are the vehicle system-level performances cascaded to sub-systems?
• How are the various vehicle system performances balanced and optimized?

MODERATOR
Xiaobo Yang, Oshkosh Corporation

PANELISTS
Carlos Agudelo, Link Engineering Co.
Stefano Cassara, Navistar
Marle Fernandes, The Timken Company
Amandeep Singh, US Army TARDEC

CAE VEHICLE SUB-SYSTEM AND COMPONENT DEVELOPMENT
Wednesday, September 12, 2 – 3:30 p.m.

This panel will focus on vehicle sub-system and component level performance development using CAE tools. Topics could include but not limited to:

• How to ensure the organic integration of sub-system development with the whole vehicle system?
• How are the sub-system-level performances cascaded to components?
• How to develop a sub-system bench testing?
• How to ensure the organic integration of components development with the whole vehicle system?
• How to determine the load cases for components?
• How to develop a component bench testing?

MODERATOR
Lin Li, Liebherr Mining Equip Newport News Co.

PANELISTS
Fei Ding, Hunan University
Pieter Schalk Els, Universiteit Van Pretoria
Keven Hofstetter, Caterpillar Inc.
Zhigang Wei, Tenneco Inc.

UNCERTAINTY QUANTIFICATION AND ROBUST DESIGN
Wednesday, September 12, 4 – 5:30 p.m.

This panel will focus on the uncertainty quantification along with vehicle development using CAE tools. Topics could include but not limited to:

• Benchmarking the uncertainties for vehicle and sub-system levels
• Vehicle robust development
• Proving ground test run-to-run variations

MODERATOR
Zachary Graves, Smartuq LLC

PANELISTS
Diego Galindo, Caterpillar Inc.
David A. Lamb, US Army TARDEC
Brian Leyde, SmartUQ
Corina Sandu, Virginia Tech.
Kyung K., Univ. of Iowa
CURRENT ICE RESEARCH PROJECTS
Wednesday, September 12, 2 – 3:30 p.m.

The SAE Powertrain Committee is organizing this session to profile student research projects, with regard to internal combustion engines. Submissions were invited from both MS and PhD candidates. Topics to be addressed may include: Air handling, Combustion, Friction reduction, Controls, Waste Heat Recovery, and Alternative Fuels.

Session Sponsored by:

MODERATOR
Russell J. Truemner, AVL Powertrain Engineering Inc.

PANELISTS
Flavio Dal Forno Chuahy, MWM International
Dheeraj Gosala, Purdue Univ-West Lafayette
Tim Kroeger, Texas A&M Univ.
Meng Tang, Michigan Technological Univ.

AFTERTREATMENT PANEL
Wednesday, September 12, 4 – 5:30 p.m.

Disruptive technologies are affecting the commercial vehicle industry from all directions, by presenting both challenges and solutions. From an aftertreatment perspective, perhaps the most disruptive technologies are those that result from the new emissions regulations for 2024 and beyond. In addition, it is clear that after well over half a century, fuel cell/battery technologies will finally be on a path to large-scale commercialization in hybrid and fully electric vehicles. So, with a future of electrification unfolding before our eyes, what is the future for aftertreatment technology for heavy-duty diesel engines?

In this session, we will address the vision for the future that includes an important role for aftertreatment technology; the regulatory standards that necessitate the development of disruptive technologies in order to meet the OBD challenges; the corresponding requirement for advances in sensor technology; and the obligatory catalyst developments to meet future needs. The goal is to share our insight and walk away with a more enlightened perspective on how to harness disruptive technologies for effective emissions control.

MODERATOR
Randal Goffe, PACCAR Technical Center

PANELISTS
Timothy Johnson, Corning Inc. (ret)
Paul Rodatz, Continental Automotive GmbH
Christopher Sharp, Southwest Research Institute
Navtej Singh, Navistar Inc.
Tom Pauly, Umicore

ALTERNATIVE FUELS AND PROPULSION SYSTEMS - EVS AND HYBRIDS
Thursday, September 13, 10 – 11:30 a.m.

This panel session is intended bring together experts in the area to discuss the recent developments in the application of Alternative Fuels and Propulsion Systems with a look into the technical challenges associated with electric & hybrid commercial vehicles. Fuel costs are an ongoing concern and reduction of greenhouse gas emissions have introduced new challenges; Consequently, Alternative Fuels and Propulsion Systems are ever more important. Establishing a dialogue on the challenges that are faced and opportunities that are present will enhance the technical development in this area.

MODERATOR
Shawn Price Ray, Forensic Engineering Technologies LLC

PANELISTS
Alan Mace, Ballard Power Systems Inc.
Aymeric Rousseau, Argonne National Lab
Heimo Schreier, AVL LIST GmbH
ORIGIN TRUCK - DRAG REDUCTION  
Tuesday, September 11, 10:30 a.m. – Noon

To continue improving the aerodynamic drag level of heavy duty vehicles, the development of corresponding drag reduction devices is being pushed towards new performance boundaries. This session presents new insights and innovations containing flexible aerodynamic surfaces.

MODERATOR  
Gandert Van Raemdonck, Wabco

PANELISTS  
Alexander K. Epstein, Volpe Natl Transportation Systems Center  
Brian R. McAuliffe, National Research Council Canada  
Jeff Smith, PACCAR Inc.

FULL-SCALE ASSESSMENTS  
Tuesday, September 11, 1:30 – 3 p.m.

Quantifying the operational aerodynamic performance of a vehicle or a component to a high degree of certainty has driven the engineering and testing community to a greater reliance on full-scale assessment methods that satisfy the dynamic similitude criteria. This session will explore the potential of both experimental and computational methods as well as advanced instrumentation required to fully capture the fundamental phenomena influencing vehicle aerodynamic performance.

MODERATOR  
Raj Nair, Exa Corporation

PANELISTS  
Mark Masoud Doroudian, ESI North America  
Julie Hawkins, U.S. EPA  
Bernard Tanguay, National Research Council Canada

OPTIMIZING MULTI-VEHICLE FLOW INTERFERENCE  
Tuesday, September 11, 3:30 – 5 p.m.

The drive to understand the effect of multiple vehicles travelling together has accelerated in recent times. This session contains results and analysis from a range of tools encompassing on-road data, water tanks and computer simulation to increase discussion in this area.

MODERATOR  
Andrew Mosedale, Auto Research Center LLC

PANELISTS  
Brian R. McAuliffe, National Research Council Canada  
John Nuszkowski, Univ. of North Florida  
Gandert Van Raemdonck, Wabco

UNSTEADY FLOW  
Wednesday, September 12, 10:30 a.m. – Noon

While driving on the road vehicles are experiencing transient flow behavior. This session will cover operational effects of changing flow field in and around the vehicle. Some applicable topics for the session include tire splash and spray, wind buffeting, vehicle stability under changing flow field and time-averaging techniques.

MODERATOR  
Ilhan Bayraktar, General Electric Aviation

PANELISTS  
Devaraj Dasarathan, Exa Corporation  
Andrew Mosedale, Auto Research Center LLC
EXPERT PANEL DISCUSSIONS

MANUFACTURING FOR THE NEXT
Tuesday, September 11, 10:30 a.m. – Noon

Advances in Medium and Heavy-Duty technologies coupled with a changing business model are profoundly changing the players, the marketplace, and the way vehicles and their components are designed and manufactured. What does this mean for the factory? How does this change the business model and the footprint? What does this mean for automation technologies and processes? How does AI and sensing fit in? What is needed in order to make this digital transformation a reality? How do we pivot to the new “next”? Join our panel discussion of mobility industry and technical experts as we discuss the roadblocks, the requirements, and the future of manufacturing.

MODERATOR
Monika Minarcin, Accenture

PANELISTS
Adrian Jennings, Ubisense Inc.
Craig Sutton, Deere & Company
Rodney Rusk; Karthik Gopalakrishnan, Bosch
Andrew Hopkins, Accenture

COMMERCIAL VEHICLE INDUSTRY DISTRUPTION PANEL
Thursday, September 13, 10 – 11:30 a.m.

New technologies are revolutionizing commercial vehicles, but are we simply substituting the new technology for the old, assuming the industry structure will remain similar. New business models are using big data to change product distribution. Will drones be doing deliveries? Will some products be printed and minimize the distribution system? Will there be a place for individual owners/operators? We have assembled a panel to speak to these issues and the new ways disruption may impact us.

MODERATOR
Frederick M. Cartwright, PRUV Mobility Ecosystem

PANELISTS
Carla Bailo, Center for Automotive Research
Tony Kriech, Heritage Environmental Services
Mike Stankard, Aon Risk Solutions

WHERE ARE WE NOW AND SHOULD WE STILL BE PARANOID-CYBERSECURITY?
Tuesday, September 11, 1:30 – 3 p.m.

During the past few years, vulnerabilities of commercial vehicles were demonstrated that allow denial-of-service attacks and even safety-critical attacks which is of great concern to the US economy. This panel will discuss recent advancements in the space of commercial vehicle cybersecurity. The panel will also address potential risks and available protection methodologies, discuss existing industry-wide collaboration efforts, and the potential for further collaboration and standardization & what’s next.

MODERATOR
Gloria D’Anna, General Telecom Systems Inc.

PANELISTS
Doug Britton, RunSafe Security Inc.
John Chandy, University of Connecticut
Karl Heimer, Heimer And Associates
Larry Hilkene, Cummins
Suzanne Lightman, National Institute of Standards & Technology
Lee Slezak, U.S. Dept. of Energy

sae.org/comvec
MANAGING TECHNOLOGY DISRUPTIONS
Wednesday, September 12, 2 – 3:30 p.m.

Standards development strategy and partnership between SAE, regulators, and the commercial vehicle industry will be the focus of these discussions. The panel will provide a vision into the processes used to identify critical need and establish guidelines that lead to the development of standards required for the maturation and implementation of critical disruptive technologies.

MODERATOR
TBD

PANELISTS
William Gouse, SAE International
Vivek Sujan, Cummins Inc.

EMERGING TECHNOLOGY STANDARDS
Wednesday, September 12, 4 – 5:30 p.m.

Join standards development leaders as they discuss the working strategies used to identify and develop specific standard documents that support the industry adoption of emerging technologies. Specific topic areas to be discussed related to current and future standards development activities are: braking, active safety systems, automated vehicles, aerodynamics, fuel economy, human factor and crashworthiness.

MODERATOR
Ilhan Bayraktar, General Electric Aviation

PANELISTS
Ilhan Bayraktar, General Electric Aviation
David Ganson Engelbert
Stephen C. Spata, NTEA

HISTORY AND FUTURE OF SAE J1939
Thursday, September 13, 10 – 11:30 a.m.

Join these panelists, as they celebrate 25 years of use for J1939 standard and contemplate the future of J1939 in light of disruptive technologies including Functional Safety, Advanced Driver Systems, Cybersecurity and CAN FD. PART I will focus on the selection of CAN as the communication technology, and celebrate the achievements attained. Part II looks at progress in functional safety, in advance of ISO 26262, cybersecurity, advanced driver systems, and the adoption of CAN FD.

MODERATOR
Eric Swenson, Navistar Inc.

PANELISTS
Franklin Josey, Volvo Trucks North America
Michael Lyons, Caterpillar Inc.
Eric Swenson, Navistar Inc.
SPECIAL EVENTS

GET INVOLVED WITH AN SAE TECHNICAL COMMITTEE
Wednesday, September 12
8 – 9:00 a.m.
Grand Ballroom Foyer (near SAE Membership Lounge)
Join us to meet with Committee chairs/vice chairs, ask questions, and learn more about the COMVEC Committees on Aerodynamics, Chassis, Powertrain, and Total Vehicle Mechatronics & Integration. Each Committee chair/vice chair will be available to answer any questions for prospective committee members.

KEYNOTE & AWARDS LUNCHEON
Wednesday, September 12
Noon – 2 p.m.
Awards to be presented:
- L. Ray Buckendale Award
- SAE McFarland Award
- SAE/AEM Outstanding Young Engineer Award
- SAE/Magnus Hendrickson Innovation Award

Keynote Speaker:
Bill Driegert, Director, Uber Freight

L. RAY BUCKENDALE LECTURE
Thursday, September 13
8 a.m. – Breakfast
8:30 – 9:15 a.m. – Lecture
Transformational Technologies Reshaping Transportation, a Government Perspective
Kirk T. Steudle, P.E., Director, Michigan Department of Transportation (MDOT), Niles Annelin, Transportation Policy Specialist, Asset Management and Policy Division Bureau of Transportation Planning

Sponsored by:

VISIT NAVISTAR’S COLLECTION OF ANTIQUE INTERNATIONAL TRUCKS
Thursday, September 13
Noon – 3 p.m.
On Thursday, Navistar is offering a free bus ride and tour of its collection of more than 30 International trucks dating from 1907 to 1980.
Join company historian Tom Clark to see everything from an early truck with wagon wheels to cab-over models and Scouts. See a 1939 D-Series pickup re-envisioned as a hot rod with a 7.0-L diesel engine. Other highlights include a WWII U.S. military highway tractor and a 1920s Speed-Series truck with a wooden cab.

For more information and to register, visit: sae.org/attend/comvec/attend/navistar-tour

EXHIBITOR SPOTLIGHT: NEW PRODUCT & TECHNOLOGY SHOWCASE
COMVEC will provide its exhibitors a platform to present a commercial-based presentation - completely different from those held during the symposium. These 10-minute TED-like Talks will be held during the breaks in the exhibit hall.

EXHIBITOR LIST (as of July 12)
Accurate Technologies Inc
Altair Engineering Inc
AVL
BAA
Control-Tec
Cummins Inc
DISTek Integration Inc
dSPACE Inc
Dana
ETAS Inc
Exa Corporation, A Dassault Systems Co
FEV North America Inc.
G W Lisk Company Inc
HBM Test and Measurement
IAV Automotive Engineering Inc
Intrepid Control Systems Inc
IPG Automotive USA Inc
Mechanical Simulation
Northern Illinois University
Oetiker, Inc.
SAE Mobility History Committee
Softing Automotive Electronics GmbH
Sonceboz
Thermamax Inc
Tru-Flex LLC

sae.org/comvec
The COMVEC™ Technology Connection is designed for engineering professionals and academics of all levels to engage, learn, and collaborate in a casual, informal setting.

**ATTIRE**
Business Casual – No ties, coat/jacket optional, dress pants/khakis

**ENGAGE WITH EXECUTIVE COUNCIL MEMBERS**
Each executive council member will be identified with a specific ribbon. We encourage you to introduce yourself and strike up a new business relationship.

**REGISTRATION**
Sponsored by Continental

**REGISTRATION PRICING**
(*Pricing reflects discounted rate. The rate will increase after August 24.)

SAE Members
- Full Conference: $850
- One-Day: $350
- Non-Members: $1,250
- SAE Student Member: $100

Participants
- Full Conference: $325
- One-Day: $150
- Non-Member Student: $150
- Young Professionals (Under 35 years of age and less than 10 years of work experience): $100

**HOTEL INFORMATION**
**HYATT REGENCY O’HARE**
9300 Bryn Mawr Ave.
Rosemont, IL 60018
+1.847.696.1234

Room Rate: $199+
Room Block Expires: August 28, 2018
Hotel Parking: $10 per night for self-parking

For more information on directions, parking, and other travel information, please visit: sae.org/comvec

**SAE MEMBERS:**
Join us at the Members-only Lounge for light refreshments/beverages, interactive demo stations of SAE’s Member Connection, Mentor Program, and SAE Propel – including giveaways, prizes, and more!

Membership Lounge Hours:
- Tuesday, September 11: 8 a.m. – 5 p.m.
- Wednesday, September 12: 8 a.m. – 5 p.m.
- Thursday, September 13: 8 a.m. – Noon

Sponsored by Caterpillar

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BUILD YOUR CAREER AT THE COMVEC™ TECHNOLOGY CONNECTION

COMVEC is dedicated to providing young professionals support in developing skills, identifying new career focuses, and building key professional relationships and networks in the commercial vehicle industry.

CONNECT WITH SUCCESS:
Discuss your future in the commercial vehicle market by connecting with experienced experts. Take advantage of direct access to influential engineering management and leadership from top companies. Ample mentoring sessions and networking opportunities are available throughout the three-day event designed to help you develop and strengthen your role.

Young Professionals Meet and Greet
Tuesday, 8 – 9 a.m.
The Young Professionals meet and greet is your chance to interact exclusively with other YP’s and students. Stop by for a few minutes to mingle with your industry colleagues.

Mentoring Sessions:
Tuesday, 3 – 3:30 pm
Wednesday, 3:30 – 4 p.m.

Networking Receptions:
Tuesday Reception, 5 – 6:30 p.m.
Sponsored by Eaton

Wednesday Reception, 5:30 – 6:30 p.m.
Sponsored by International

Making a global impact starts at COMVEC. Join us and be a part of redefining and advancing the commercial vehicle industry.

YOUNG PROFESSIONALS: NOT AN SAE MEMBER?
Take advantage of a special offer of FREE SAE Membership for one year to Young Professionals attending Comvec.
Visit the Membership Lounge, or email Amanda.Hildabrand@sae.org for more information (note: this offer good for non-members only).

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EXHIBIT AND SPONSORSHIP OPPORTUNITIES AT THE COMVEC™ TECHNOLOGY CONNECTION

COMVEC™ brings together both on- and off-road engineering professionals from across the globe. The event provides a valuable engagement opportunity between engineers, supply managers, and executives.

WHO ATTENDS?
90% of attendees are influencers, decision makers, and/or purchasers (*based off 2017 registration)
86% of attendees use face-to-face time at conferences to become aware of new products, evaluate vendors for future purchases, and/or narrow their choices to preferred vendors (*data obtained from CEIR)

ATTENDEES FOCUS ON THESE TECHNOLOGY AREAS:
Design, Testing, Consulting, and R&D Services • Parts and Components Supplier • Tier 1 Supplier/ Tier 1 Systems Integrator • Heavy Duty – Heavy or Medium Truck • Heavy Duty – Industrial • Government • Aerospace incl. Suppliers, Commercial, Regional • Noise, Vibration, and Harshness • Heavy Duty – Agricultural • Automotive OEMs • Power & Propulsion incl. Environment, Emission, and HEV/EV • Vehicle Dynamics & Chassis/Vehicle Handling • Electrical/Electronics & Electrical Systems; Avionics • Tests and Testing • Software and Software Engineering • Modeling/Simulation • Human Factors and Ergonomics • Thermal Management incl. Climate Control • Materials • Safety

...ALL ENGAGED WITH THE ON-HIGHWAY, OFF-HIGHWAY, AND DEFENSE COMMUNITIES

HIGH-IMPACT WAYS TO ENGAGE THE COMVEC™ TECHNOLOGY CONNECTION AUDIENCE

SPONSORSHIPS – Increase your organization’s brand recognition and distinguish yourself as a leading industry expert as a leading sponsor.

SPONSORSHIP BENEFITS
• Interact with individuals and other supplier companies to generate new business opportunities
• Create opportunities for expanded business
• Reconnect with current customers
• Establish contacts and potential customers
• Participate in the event as an attendee
• Company recognition in the Event Guide and Mobile app
• Company recognition on the Commercial Vehicle sponsor webpage with hyperlink to your web page
• Recognition on sponsor appreciation signage throughout event

EXHIBIT SPACE
Showcase your organization’s latest products or innovations as an exhibitor at COMVEC™. Put your brand in front of key decision makers at the only industry event focused on on-highway, off-highway, agricultural, construction, industrial, military and mining commercial vehicles.

EXHIBIT FEATURES
• Exhibit Space includes – 10’ x 10’ booth space
• Two (2) full conference registrations (admittance to symposia, technical sessions, exhibition, lunches, networking breaks, and copies of oral only presentations)
• Company listing and profile in the event guide and/or mobile app and online exhibitor directory

INCREASE YOUR EXPOSURE WITH THE INDUSTRY’S MOST POWERFUL AUDIENCE
Don’t miss your chance to have a prominent presence at the COMVEC™ Technology Connection!

Secure Your Opportunity Today
For more details and information, please contact:
Megan McCoy Event Sales
o +1.724.772.4037
e megan.mccoy@sae.org

Have another idea? We can create a customized option that will help you achieve your goals and reach your targeted audience.

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PACCAR Inc.

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