

# TMC 2024

ATA'S TECHNOLOGY & MAINTENANCE COUNCIL

# ANNUAL MEETING & Transportation Technology Exhibition

MARCH 4-7, 2024 | NEW ORLEANS, LA  
ERNEST N. MORIAL CONVENTION CENTER

# QUALITY SPECING

Our  
Largest  
Event!

## for Optimal Performance

TMC puts you in touch with the industry's top trucking technical professionals and fleet decision makers.



For more information, visit <http://tmcannual.trucking.org>

ATA BUSINESS SOLUTIONS®



## **Quality Spec'ing for Optimal Performance** **TMC's 2024 Annual Meeting & Transportation Technology Exhibition!**

Comprised of a broad cross-section of experienced fleets, equipment suppliers and service providers, **no other industry trade association can match the real-world experience and technical expertise of TMC's membership.**

By providing leadership support and opportunities to collaborate, TMC helps members develop the industry's best practices that address the critical truck technology and maintenance issues that have the greatest impact on truck fleets.

### **Where Industry Solutions Are Forged**

More than just a trade show, TMC is home to trucking's leading fleet professionals, vehicle manufacturers, and component suppliers. It is the industry's leading forum for getting things done collaboratively. From brakes to bearings, from scanners to software, ATA's Technology & Maintenance Council's (TMC) Study Groups and Task Forces cover it all.

### **Best Educational Program Available**

Whether your interest is staying current on equipment, maintenance or technology issues, there's no better venue than TMC meetings to catch up on industry-specific news. **This year, TMC is holding sessions with a special emphasis on quality spec'ing for optimal performance as well as focusing on evolving powertrain, specification, and maintenance options and the regulations that are shaping them.** (see pages 8-13 for details.)

### **History of Cooperative Development**

TMC is a place for serious work, and our dedication to the cooperative development of voluntary industry best practices is evident through the publication of the Council's recommended engineering and maintenance practices adopted by industry. These practices represent more than 65

years of industry knowledge. Today, TMC's growth and strength comes from its pioneers and visionaries who have dedicated much of their lives to the Council.

### **Maximize Your Membership— Attend TMC's Annual Meeting!**

If you're a TMC member, or your company is an ATA member, you are part of an important team dedicated to improving our industry in a way that no other group can. But if you haven't attended TMC's Annual Meeting and Transportation Technology Exhibition before, you're missing out on an important aspect of TMC/ATA membership. Annual Meeting veterans will attest that attending TMC meetings maximizes their membership investment. It enables both fleets and suppliers to make personal contact with an incredible cross-section of the industry's most important and influential equipment and technology specialists, putting you in touch with North America's top technical professionals and fleet decision makers. Plus, members receive discounted event registration!

If you're not a TMC member, come see what you're missing. There's never been a better time to join and save! Everyone is welcome at TMC's 2024 Annual Meeting & Transportation Technology Exhibition!

***"My biggest takeaway from TMC is seeing how dedicated these people are to making this industry better. You are surrounded by some of the best people in the industry here and I think it is a great opportunity for anyone to network and grow from all that attend."***

**— Martin Redilla, education manager, HDA Truck Pride**



## Trailblazers in Thought Leadership

For fleets, this means having direct access to information on equipment and technology specifications and maintenance best practices. At TMC, equipment and technology professionals can:

- Attend the industry's most innovative educational sessions covering all aspects of vehicle maintenance and design. Planned by fleets, for fleets.
- Gain and share information with hundreds of your peers at TMC's Shop Talk, a free-form discussion on equipment issues.
- Resolve troubling equipment issues at TMC's Town Meeting and Fleet Operators' Forum.
- Participate in voluntary standards-setting efforts through TMC's Study Groups and Task Forces, which are tackling important issues such as wheel end thermal events, electric vehicle standardization, and emerging onboard technologies.
- Participate in the most informative technical event — TMC's Transportation Technology Exhibition. TMC's exhibition provides attendees the opportunity to interact with the best minds in the trucking industry on equipment issues. This year's exhibit features a special Sustainable and Automated Vehicle Technology Pavilion; and a "ride and drive" dimension (see page 15 for details).
- Participate in TMC's Future Truck Initiative. As the only industry association that is focused solely on truck technology and maintenance, TMC and its member companies work together with vehicle and component manufacturers to create the industry's standards for future truck technology and equipment that help ensure that the truck of the future is one that is the most efficient to operate and maintain.

## What's more — it's the industry's best meeting value proposition!

Where else can you get access to all this information? And we even include a host of meals during the week — a big savings for budget-conscious fleets. Here's what you get for your full meeting registration:

- Access to more than a dozen educational sessions, including Shop Talk
- Entrance to 'Trucking's Complete Technology Tradeshow'
- Chance to participate in over 100 industry task forces
- Three breakfast events
- Two luncheon events
- Two evening receptions
- TMC's Annual Banquet
- TMC's Fleet Operators' Forum
- Unequaled networking opportunities
- Access to the industry's best technical experts

Fleet or supplier, TMC offers so much for you. We're North America's premier technical conference for trucking, and it's an event you simply must attend to stay current on industry practices.

There's simply no other venue that offers so much information on how to maximize fleet performance and efficiency. It's your one-stop shop for fleet education, supported by the industry's only user-driven best practices.

**At TMC, we're focusing on quality spec'ing for optimal performance, and we look forward to seeing you in New Orleans this March!**

***If you're not a TMC member, this is a golden opportunity to see what TMC can offer you. Most first-time attendees come to their next TMC event as members!***

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## Saturday, March 2

**8 am – 5 pm**  
Exhibit Setup

## Sunday, March 3

**8 am – 5 pm**  
Registration/Welcome & Help Desk Open

**8 am – 5 pm**  
Exhibit Setup

**9 – 9:30 am**  
New Directors Meeting (Closed)

**9 – 10 am**  
TMC Officers Meeting (Closed)

**10 – 11 am**  
Future Truck Committee Meeting

**10 – 11 am**  
Member Outreach Committee Meeting

**11 am – Noon**  
Strategic Planning Committee Meeting (Closed)

**11 am – Noon**  
Future Truck Task Force Leadership Meeting (Closed)

**11 am – Noon**  
Technician & Educator Committee Meeting

**12:15 – 2:15 pm**  
Study Group and Meeting Planning Committee Meetings (Closed)

**2:30 – 4:30 pm**  
Board of Directors Meeting (Closed)

**3 – 4 pm**  
Sergeant-at-Arms and Meeting Mechanics Meetings (Closed)

**4:30 – 5 pm**  
New Board/Officers' Election (Closed)

**5 – 6 pm**  
TMC Mentor Committee Meeting (Closed)

**5 – 6 pm**  
TLOT Prospective Candidate Meeting (Closed)

**6 – 8 pm**  
CCJ Fleet Maintenance Executive Career Leadership Reception (By Invitation Only)

## Monday, March 4

**6:45 am – 7:30 pm**  
Registration/Welcome & Help Desk Open

**7 – 8 am**  
Study Group Leadership Breakfast Meetings (Closed)

**7 – 7:30 am**  
First-Time Attendee and New Member Orientation (AM session)

**8 am – Noon**  
Exhibit Setup

**8 am – 4 pm (8 hours)**  
Task Force Meetings

**9:30 – 10 am**  
Coffee Break

**Noon – 1 pm**  
First-Time Attendees and New Member Orientation & Luncheon (PM session)

**Noon - 1 pm**  
Advanced Driver Assistance Systems (ADAS) Steering Committee (Invitation Only)

**4 – 5 pm**  
Fleet Talk (Fleets Only)

**4 – 5 pm**  
Full Associates Meeting (Associates, Service Providers & Exhibitor Only Personnel)

**5:15 – 6:30 pm**  
Town Meeting & Fleet Operators' Forum

**6:45 – 9:15 pm (2.5 hours)**  
Exhibition Grand Opening and Reception

**7 – 8 pm**  
TMC of Tomorrow Social & Networking Event

## Tuesday, March 5

**6:45 am – 5 pm**  
Registration/Welcome & Help Desk Open

**6:45 – 8:15 am**  
TMC Kickoff Breakfast  
Featured Speaker: Chris Collins, Industry Expert and Inspirational Speaker

**8:30 – 10 am**  
Technical Session #1A:  
Everything You Ever Wanted to Know About Your Electric Power Provider But Were Afraid to Ask

**8:30 – 10 am**  
Technical Session #1B:  
Latest Findings from the U.S. Department of Energy's SuperTruck 2 & 3 Programs

**10:15 am – 2:15 pm (4 hours)**  
Walk-Around Luncheon, Coffee Break and Exhibition Viewing

**2:30 – 4 pm**  
Study Group Sessions:  
• S.2 — Real-World Solutions for Real-World Tire and Wheel Challenges  
• S.4 — Modern and Evolving Driver Interfaces: What These Mean for Your Operation

**4:15 – 5:45 pm**  
Study Group Sessions:  
• S.6 — Air Disc Brakes: Are They Worth It?  
• S.14 — Maintenance Considerations for Electric Specialty & Vocational Vehicles

**6 – 6:30 pm**  
Study Group Business Sessions:  
• S.1 Electrical  
• S.3 Engine  
• S.5 Fleet Maintenance Management  
• S.11 Sustainability & Environmental Technologies  
• S.17 Collision & Corrosion Control

## Wednesday, March 6

**6:30 – 7 am**  
Coffee Service

**6:30 am – 5 pm**  
Registration/Welcome & Help Desk Open

**7 – 8:30 am**  
Shop Talk and Fleet Operators' Forum Wrap-up

**8:30 am – 12:30 pm (4.5 hours)**  
Final Exhibit Viewing Period Walk-Around Breakfast & Coffee Break  
• TMC Ride and Drive  
• Daytona and Prize Drawings take place between Noon and 12:30 pm

**9 – 10:30 am**  
TMC Leaders of Tomorrow Class of 2025 Training (Closed)

**10:45 am – 12:15 pm**  
TMC Leaders of Tomorrow Class of 2026 Training (Closed)

**12:30 – 5 pm**  
Exhibit Teardown

**12:45 – 2:15 pm**  
TMC Industry Awards Luncheon

**2:30 – 4 pm**  
Technical Session #2A:  
Powerful Business Presentations: How Engineers & Technical Experts Can Win Their Audience Every Time

**2:30 – 4 pm**  
Technical Session #2B:  
So You Have a New Truck — Now What?  
Data-Driven Asset Management

**4:15 – 5:45 pm**  
Study Group Sessions:  
• S.7 — Side-Impact Guards: Are We Heading for an Install?  
• S.18 — Technician and Maintenance Shop Setup for Automated Vehicles

**5:45 – 6:15 pm**  
Recognized Assoc. Mtg. (Closed)

**6:30 – 7 pm**  
Silver Spark Plug Reception (Closed)

**7 – 10:30 pm**  
Annual Reception/Banquet

## Thursday, March 7

**7 – 8 am**  
Buffet Breakfast

**7 am – Noon**  
Welcome & Help Desk Open

**7 am – 5 pm**  
Exhibit Teardown

**8 – 9:30 am**  
Technical Session #3A:  
Choosing the Right Engine Oil for Your Fleet — Now and in the Future

**8 – 9:30 am**  
Technical Session #3B:  
Spec' for a Wreck

**9:30 – 9:45 am**  
Coffee Break

**9:45 – 11:15 am**  
Study Group Sessions:  
• S.12 — Regulatory Reporting Standards — How to Access the Data?  
• S.16 — How to Safely and Properly Lift Electric Vehicles

**Noon – 1 pm**  
Admin. Wrap-up Meeting (Closed)

**1 – 2 pm**  
Board of Directors Mtg. (Closed)



## TMC Heads to *New Orleans!*

Join us in New Orleans for TMC's 2024 Annual Meeting & Transportation Technology Exhibition. We're holding all activities at the Ernest N. Morial Convention Center, marking the first time TMC has been back to "The Big Easy" since 1990.

Come experience the rich and distinctive history and culture of New Orleans. For full details on travel to TMC's 2024 Annual Meeting, go to the TRAVEL tab at our event microsite <http://tmcannual.trucking.org>.



MARCH  
**3**

### SUNDAY

- TMC Leadership and Press Conference Day. This is when TMC holds its organizational meetings and press conferences are held for the trade press and media.
- NOTE: Additional press conferences will be held during specified exhibit viewing times on Monday, March 4 and Tuesday, March 5 — if needed. *Media Room is sponsored by Volvo Trucks North America.*

MARCH  
**4**

### MONDAY (meeting officially starts)

- Task Force Day. TMC Task Forces are held from 8 am – 4 pm.
- First-Time Attendee and New Member orientations held at 7 am and Noon.
- Monday concludes with TMC's Town Meeting/Fleet Operators' Forum and TMC's Exhibit Grand Opening.

MARCH  
**5**

### TUESDAY

- Educational Sessions begin.
- TMC Kickoff Breakfast starts at 6:45 am.
- Walk-around Luncheon and Exhibition Viewing runs from 10:15 am – 2:15 pm. *Sponsored by EBE Technologies.*

MARCH  
**6**

### WEDNESDAY

- Educational Sessions continue.
- TMC's Shop Talk and Fleet Operators' Forum Wrap-up runs from 7 – 8:30 am.
- TMC's final exhibit viewing period runs from 8:30 am – 12:30 pm.
- Industry Awards Luncheon takes place from 12:45 – 2:15 pm.
- Our Annual Reception and Banquet takes place 7-10:30 pm.

MARCH  
**7**

### THURSDAY

- Technical Sessions continue Thursday morning.
- NATMI Certification Classes held.



### TMC Leaders of Tomorrow

The TMC Leaders of Tomorrow program is open to "up-and-coming" fleet maintenance professionals in their early 40s or younger and/or who have a minimum of five years' experience working in the trucking industry. Participants must be TMC members and attend four consecutive TMC general meetings (our Annual and Fall Meetings) within a two-year period. During these meetings they must attend all Technical Sessions, several Study Group Mini-Tech sessions, all Study Group meetings to which they are assigned, attend all TMC Leaders of Tomorrow training sessions and events scheduled during the TMC general meetings, complete and pass online TMC exams, and participate as judges during the Fall TMC SuperTech Competitions.

Candidates have to be nominated by a direct supervisor or company executive who must complete a TMC Leaders of Tomorrow Nomination Form that can be found on TMC's website <http://tmc.trucking.org>. A nominee's professional resume and letter of recommendation must be included with the completed Nomination Form and submitted to TMC staff. TMC's 2024 Annual Meeting will celebrate the graduation of our latest TMC Leaders of Tomorrow class at our Wednesday Industry Awards Luncheon. Two other classes in training will also meet during TMC's 2024 Annual Meeting. Schedule details will be sent directly to class members prior to the event.



## S.1 Electrical—Chairman: Jody Younce

Future Electrical/Electronic Systems (Joint Future Truck/S.1)  
 Microgrids and Battery Storage (Joint S.1/S.11)  
 Next Generation Tractor-Trailer Electrical Interface  
 Wireless EV Charging Standards and Recommendations  
 Advanced Battery Technology  
 Rear-facing LED Out-of-Service Criteria  
 Chassis to Body Electrical Interface Guidelines for Construction Trucks (Joint S.1/S.14)  
 RP Updates (S.1)  
 RP 169 Update (Road Service Diagnostic Process) **NEW**  
 RP 107C/RP 159 Update (Tractor-Trailer Connector Maintenance/Spec'ing) **NEW**  
 RP 185 Update (Reefer Shorepower Guidelines) **NEW**

A. Lesesky 8 – 9 am  
 J. Younce 9 – 9:30 am  
 D. Forthoffer 9:30 – 10:30 am  
 M. Masquelier 10:30 – 11:30 am  
 J. Coleman 11:30 am – Noon  
 R. Koelzer Noon – 12:30 pm  
 D. Troupe 1 – 1:30 pm  
 A. Mihic 1:30 – 2:30 pm  
 C. Cummings 2:30 – 3 pm  
 B. McKie 3 – 3:30 pm  
 M. Srniec/L. Rambeau 3:30 – 4 pm

## S.2 Tire & Wheel—Chairman: Todd Stout

RP Updates (S.2)  
 Considerations for Tires on Commercial Electric Vehicles  
 Tire Maintenance Considerations for Light Commercial Vehicles (Joint S.2/S.14)  
 Use of Telematics for ATIS and TPMS  
 Tire Conditions Analysis Guide for Light Commercial Vehicles (Joint S.2/S.14)  
 Tire Maintenance Management Systems  
 Proper Tire Mounting With Tire Pressure Monitoring Systems (TPMS) **NEW**

P. Meisenholder 8 – 10 am  
 D. Shy 10 – 11 am  
 R. Patterson 11 am – Noon  
 L. Demis 12:30 – 1 pm  
 T. Tipton 1 – 2 pm  
 J. Monte 2 – 3 pm  
 J. Heath 3 – 4 pm

## S.3 Engine—Chairman: Bryan Stewart

Coolants for Electric Vehicles  
 RP 363A Update (Underhood Thermal Event Prevention) **NEW**  
 RP Updates (S.3)  
 Guidelines for Testing and Leak Detection for Electric Vehicle Powertrain Systems  
 RP 301D Update (Air Intake System Maintenance) **NEW**  
 Lubrication for Electric Vehicles  
 RP 322B Update (Coolant Pump Failure Modes)  
 RP 318C Update (Engine Oil Analysis)

J. Long 8 – 9 am  
 B. Balfour 9 – 9:30 am  
 P. Cigala 9:30 – 11 am  
 M. Hawkins 11 am – Noon  
 M. Almquist 1 – 1:30 pm  
 B. Stewart 1:30 – 2:30 pm  
 F. Woodson 2:30 – 3:30 pm  
 P. Cigala 3:30 – 4 pm

## S.4 Cab & Controls—Chairman: Mark Kennedy

RP Updates (S.4)  
 Odometer Synchronization  
 RP 430 Update (Guidelines for Collision Warning)  
 RP 404B Update (Truck & Truck Tractor Access Systems)  
 Conversion of Rearview Mirrors to Cameras  
 RP 420B Update (HVAC Service Life Requirements)  
 In-cab Gas Detectors  
 Exploratory Session

A. Krum 8 – 8:30 am  
 G. Selby 8:30 – 9 am  
 M. Kennedy 9 – 9:30 am  
 A. Krum 9:30 – 10:30 am  
 B. Kujala 10:30 – 11 am  
 B. Herrmann 11 am – Noon  
 K. Altrichter 1 – 1:30 pm  
 M. Kennedy 1:30 – 2:30 pm

## S.5 Fleet Maintenance Management—Chairman: Matt Farcosky

RP Updates (S.5)  
 VMRS Codes  
 VMRS Coding for Predictive and Prognostic Maintenance  
 Health Ready Components Standards  
 Cybersecurity Issues  
 Electric Vehicle Shop Bay Planning (Joint S.5/S.16 in S.16 Room)  
 Electric Vehicle Pre-Trip Inspection  
 Parts Room Design Standardization  
 Root Cause Analysis  
 Cost Benefit Analysis of Extended Warranty

P. Birkenstock 8 – 8:30 am  
 P. Moszak 8:30 – 9 am  
 B. Mulshine 9 – 9:30 am  
 W. Stegall 9:30 – 10 am  
 M. Zachos 10 – 10:30 am  
 A. Krey 11 am – Noon  
 R. Johnson Noon – 12:30 pm  
 W. Skinner 1:30 – 2:30 pm  
 M. Farcosky 2:30 – 3:30 pm  
 C. Dillon/I. Abernathy 3:30 – 4 pm

## S.6 Chassis & Brake Systems—Chairman: Joey Young

RP Updates (Brake-Related RPs)  
 RP Updates (Chassis-Related RPs)  
 RP 622B Update (Wheel Seal/Bearing Maintenance) **NEW**  
 RP 656A Update (Hub & Spoke Fastener Maintenance) **NEW**  
 RP 628C Update (Aftermarket Brake Lining Selection)

J. Vander Geissen 8 – 10 am  
 J. Vander Geissen 10 am – Noon  
 K. Fally 1 – 2 pm  
 S. Williams 2 – 3 pm  
 R. Moody 3 – 4 pm

## S.7 Trailers, Bodies & Material Handling—Chairman: Justin Olsen

RP Updates (S.7)  
 Brake-Activated Pulsating Lamps  
 RP 755A Update (Alternative Liftgate/Material Handling Charging Methods)  
 Exploring Trailer Voltage Drop for Current & Future Demands  
 RP 707A Update (Rear Bumper Dimensions) **NEW**  
 RP 729 Update (Trailer Fastener Specifications) **NEW**  
 RP 754A Update (Liftgate Charging) **NEW**

J. Updike 8 – 9 am  
 J. Davenport 9 – 10 am  
 L. Rambeau 10 – 10:30 am  
 G. Gaussoin 11 am – Noon  
 J. Olsen 1 – 1:30 pm  
 J. Olsen 1:30 – 2 pm  
 J. Fielding 2 – 2:30 pm

## S.11 Sustainability & Environmental Technology—Chairman: Taki Darakos

RP Updates (S.11)  
 RP 1109B Update (Type IV Fuel Economy Test Procedures)  
 Energy Efficiency Test Procedures for Electric Vehicles  
 Fleet Expectations and Guidelines for Spec'ing Electric Vehicles  
 Understanding Electric Vehicle Efficiency Performance  
 TCO Calculator for Electric Vehicles  
 SmartWay Activities  
 Energy Conservation/Industry Sustainability Update  
 Charge Cycle Optimization and Energy Management for Battery Electric Vehicles  
 Recommendations for Developing Charging Station Infrastructure for Commercial Fleet Operations

E. Lindberg 8 – 8:30 am  
 B. Wilson 8:30 – 9 am  
 B. Wilson 9 – 10 am  
 P. Seeberg 10 – 11 am  
 K. Otto 11 am – Noon  
 D. Black 12:30 – 1 pm  
 T. Darakos 1 – 1:30 pm  
 T. Darakos 1:30 – 2 pm  
 T. Darakos 2 – 3 pm  
 J. Miller 3 – 4 pm

## S.12 On-Board Vehicle Electronics—Chairman: Kurt Dunn

RP 1210D Update (Windows API)  
 CAN Bus Troubleshooting  
 RP Updates (S.12)  
 Open Telematics API  
 RP 1226 Messaging/Accessory Databus Standardization  
 Regulatory Reporting Standards  
 Exploratory Session

K. Ditzel 8 – 9 am  
 K. DeGrant 9 – 9:30 am  
 K. Dunn/K. DeGrant 9:30 – 10 am  
 S. Baumgarner/V. Vanszl 10 – 10:30 am  
 W. Stegall 10:30 am – Noon  
 L. Lackey 1 – 2:30 pm  
 K. Dunn 2:30 – 3:30 pm

## S.14 Last Mile & Vocational Vehicles — Chairman: Tommy Lewis

RP Updates (S.14)  
 VMRS Code Development for Specialty Equipment  
 Class 2-6 Electric Vehicle Inspection Standards  
 Chassis to Body Electrical Interface Guidelines for Construction Trucks (Joint S.1/S.14)  
 Exploratory Session

L. Disque 9 – 10 am  
 R. Nordstrom 10 – 11 am  
 R. Schornstein 11 am – Noon  
 D. Troupe 1 – 1:30 pm  
 T. Lewis 1:30 – 2:30 pm

## S.16 Service Provider—Chairman: Homer Hogg

Safety Aspects of Electric Vehicles  
 Implementing TMC RPs in Fleet & Service Provider Operations  
 Service Provider Standards of Excellence  
 Electric Vehicle Shop Bay Planning (Joint S.5/S.16 in S.16 Room)  
 RP 1612 Update (Service Event Data Transparency)  
 When to Trade or Keep a Tractor  
 RP Updates (S.16)

C. Voyles/A. Rush 8 – 9 am  
 J. Gingrich/D. Will 9 – 10 am  
 J. Sulser 10 – 11 am  
 A. Krey 11 am – Noon  
 D. Mustafa 1 – 2 pm  
 M. Jablon 2 – 3 pm  
 C. Heilman 3 – 4 pm

## S.17 Collision and Corrosion—Chairman: Justin Worden

Corrosion Manual Update  
 Heavy-Duty Collision Repair Roadmap  
 Frame Correction  
 Exploratory Session

A. Anderson 8 – 9 am  
 J. Worden 9 – 10 am  
 J. Worden 10 – 11 am  
 J. Worden 1 – 2 pm

## S.18 Automated Vehicles—Chairman: Joseph Richley

Automated Driving System Selection Process  
 Automated Truck Inspection and Enforcement  
 Technician & Maintenance Shop Requirements for Automated Vehicles  
 Trailer Specification for Automated Power Units  
 Automated Vehicle Industry Updates  
 Exploratory Session

J. Richley 9 – 10 am  
 D. Goff 10 – 11 am  
 J. Richley 11 am – Noon  
 P. Sniogocki 1 – 2 pm  
 R. Bishop 2 – 3 pm  
 J. Richley 3 – 4 pm

## Technician & Educator Committee—Chairman: Benjamin Phillips

Technician Skills Competitions  
 Future Technician Scholarships  
 Fostering State Trucking Association Competitions  
 Educator Involvement/Progression From Tech to Educator  
 Curriculum Development  
 Electrified Vehicle Safety Training for Technicians

R. Patterson 8 – 9 am  
 E. Brennan 9 – 10 am  
 B. Karim 10 – 11 am  
 G. Arrants 11 am – Noon  
 J. Werner 1 – 2 pm  
 D. Salabsky 2 – 3 pm

## Future Truck Committee—Chairman: Jim Moore

Future Electrical/Electronic Systems (Joint S.1/FT in S.1 room)  
 Future Tire Reliability/Durability  
 Future Cab and Driver Interface  
 Future Trailer Productivity  
 Future Chassis and Brake Systems  
 Augmented and Virtual Training

A. Lesesky 8 – 9 am  
 D. Shy 9 – 10 am  
 J. Adami 10 – 11 am  
 C. Lee 11 am – Noon  
 E. Bengé 2 – 3 pm  
 M. Johnston 3 – 4 pm

## Technical Session #1A

### Everything You Ever Wanted to Know About Your Electric Power Provider But Were Afraid to Ask



The rapid pace of commercial vehicle electrification has many fleet managers scrambling to get up to speed on what they need to know to be ready to accept and operate battery-electric vehicles in their operation. Part of the challenge is understanding a fleet's own vehicle specifications and what makes sense for their particular vocation and business model. However, it's just as important to understand the role a fleet's electric utility power provider plays in the electrification process.

Fueling with diesel and gasoline is one thing. Relying on electric charging stations is a completely new experience. Much of what makes the transition a success is your power provider. There are three aspects to accessing electric power — generation, transmission and distribution —

do you know the differences between them and who provides each service in your area or areas? It could be one provider or multiple. How long it takes to bring charging availability to a given location can vary greatly as well — do you know what factors impact the anticipated timeframe?

There's more than 3,500 electric power providers in the United States, belonging to one of three categories — public power, rural electric cooperatives and investor-owned utilities. Their governance, business model and regulatory requirements will differ. That's why it's important to know your provider before you begin your electrification program.

Attend this session and learn everything you ever wanted to know about your electric power provider but were afraid to ask. This will be a highly interactive session in which attendees will be quizzed about what they think they know already, and be able to ask a panel of experts from the power utility industry questions that will impact their ability to make the great leap to next generation clean fleet operations.

**Technical Session #1A**  
**Tuesday, March 5**  
**8:30 – 10 am**

## Technical Session #1B

### Latest Findings from the U.S. Department of Energy's SuperTruck 2 & 3 Programs

In 2016, the U.S. Department of Energy (DOE) kicked off its second challenge initiative to help vehicle manufacturers exceed published standards for heavy-duty commercial vehicles. The program — entitled SuperTruck II — was the followup to DOE's SuperTruck I program, the results of which were presented at TMC's 2017 Annual Meeting.

SuperTruck II funded five projects to develop and demonstrate cost-effective technologies that more than double the freight efficiency of Class 8 trucks. For SuperTruck II, DOE selected the following four teams for projects of \$20 million in federal funding, and each recipient matched that amount, dollar-for-dollar:

- Cummins, Inc., which designed and developed a new more-efficient engine and advanced drivetrain and vehicle technologies.
- Daimler Truck North America LLC, which developed and demonstrated a tractor-trailer combination using a suite of technologies including active aerodynamics, cylinder deactivation, hybridization, and the electrification of accessories.
- Navistar, Inc., which designed and developed a vehicle and powertrain with electrified engine components that can enable higher engine efficiency and a significantly more aerodynamically reengineered cab.
- PACCAR Inc., which designed and constructed a pioneering all-

new aerodynamic cab-over-center-driver position tractor, with 48-volt mild-hybridization of accessories, light-weight chassis, and system level energy management systems.

- Volvo Technology of America LLC, which developed and demonstrated a tractor-trailer combination with lightweight cab that achieves the freight efficiency goal using alternative engine designs and a variety of system technologies.



The program is concluded and the results are impressive, with teams demonstrating results of 16 MPG learned are now ready to help start improving your fleet's operation today.

Attend this session as we dive into the pool of strategies, technologies and specifications relevant to the success of the program. We'll cover how they translate into zero and near-zero emission trucks of the future.

**Technical Session #1B**  
**Tuesday, March 5**  
**8:30 – 10 am**

## Technical Session #2A

### Powerful Business Presentations: How Engineers & Technical Experts Can Win Their Audience Every Time



Many engineers and technical professionals are experts in their chosen fields, but will candidly admit communicating their knowledge and expertise effectively can be quite challenging.

During this management-related technical session, TMC presents proven strategies for preparing powerful business presentations. Communication consultant and coach, Deborah Boswell, designed this class to help

anyone who wants to project confidence and credibility when delivering presentations. Topics covered during this management session include:

- grabbing your audience with the first words spoken,
- managing nerves and overcoming fear associated with public speaking,
- presenting technical information clearly, concisely, and persuasively, and;
- minimizing your PowerPoint presentation for maximum impact

Clear and concise presentations make a positive impact on earning ability and the company bottom line. Attend this session and learn ways to improve your communication skills for personal and business growth.

**Technical Session #2A**  
**Wednesday, March 6**  
**2:30 – 4 pm**



## Technical Session #2B

### **So You Have a New Truck – Now What? Data Driven Asset Management**

For many years, maintenance executives and managers relied on their own experience and intuition to manage their fleet operations. But today, powerful new tools have opened a new realm of possibilities when it comes to improving fleet management.

Data-driven asset management can help fleet managers make better purchasing and specification decisions, inform vehicle setup and warranty administration, streamline maintenance operations and provide better results to their internal and external customers. Properly implemented and utilized, these state-of-the-art asset management systems can provide substantial returns on the time and effort invested in their deployment.

Attend this session as we explore the latest and greatest data-driven asset management techniques, processes, systems and schema designed to maximize fleet return on investment, uptime and labor efficiency. Our panel of experts will provide valuable insights on how fleets of all sizes can leverage the power of this new approach to fleet maintenance management.



**Technical Session #2B**  
**Wednesday, March 6**  
**2:30 – 4 pm**

## Technical Session #3A

### **Choosing the Right Engine Oil for Your Fleet – Now and in the Future**



Since the introduction of CK-4 and FA-4 Soils in December 2016, fleet managers have been challenged with determining which engine oil selection is right for their fleet operations by looking at various factors like fuel economy, oil drain intervals, and older equipment compatibility. Even though navigating some of these competing priorities takes time and energy, there is not one answer for everyone, and not all fleets

arrive at the same conclusion. However, realizing the efficiency savings that lower viscosity oils offer can have a positive impact on lowering your fleet's operating costs.

Now, the American Petroleum Institute (API) is working on the successor formations to CK-4/FA-4 – tentatively designated as “PC-12.” The new

standard is expected to help meet the U.S. Environmental Protection Agency's Phase III fuel economy and emissions targets starting in 2027 and beyond. API has said it anticipates a five-year development program and one-year licensing period for PC-12 lubricants, which is expected to become available in 2027.

Attend this session and hear what leading engine manufacturers will be recommending for their various engines and what benefits fleets could gain from the new formulations. Presenters will provide fleets a road map for making the best choice to meet your specific fleet needs and help reduce your overall costs.

Panelists will also share their perspective and provide some insight to the future direction of heavy-duty diesel engine oils that vehicle, engine and oil manufacturers are planning regarding the new PC-12 standard.

**Technical Session #3A**  
**Thursday, March 7**  
**8 – 9:30 am**

## Technical Session #3B

### **Spec' for a Wreck**

Vehicle crashes are an unfortunate reality of fleet operations. Some big-rig wrecks are mangled messes and it's amazing how vehicle recovery specialists can pull trucks and trailers out of ditches, ravines, muddy fields, swamps, etc., and off of center barriers, rock walls, etc.

Amazingly, truck drivers are seldom killed, which speaks well of truck cab construction. Not so impressive is the integrity of fuel tanks, which are often punctured and spill diesel on roads and sometimes in soil (which results in an expensive cleanup). And bull guards block access to tow hooks.

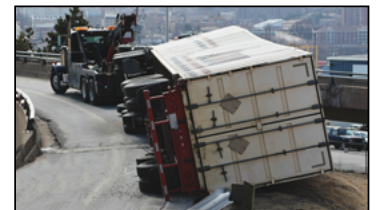
Trailers, particularly vans and sometimes reefers, are flimsy and lose their integrity if a wall or ceiling is punctured or splits from the weight of cargo being tossed against them. Often there are no hard points on frames to

attach recovery hooks, so crews have to improvise. It can appear as if trailers, especially, are built for light weight and payload capacity, period.

To prevent some of these issues, it makes sense for engineers and fleet managers to consider the possibility that a vehicle will get into a wreck and design accordingly. But what should engineers and fleet managers do?

Attend this session and hear from fleets, manufacturers and recovery experts on what the challenges are associated with vehicle crash and recovery and how expensive it gets when vehicle construction makes the job harder. Panelists will offer suggestions on what can make recovery tasks easier and faster should disaster strike.

**Technical Session #3B**  
**Thursday, March 7**  
**8 – 9:30 am**



## S.2 Real-World Solutions for Real-World Tire and Wheel Challenges

When it comes to heavy-duty vehicle maintenance, fleet managers know how important it is to ensure their tire and wheel maintenance programs are top quality — both for reasons of safety and efficient operation. However, tire and wheel technology is not stagnant and its important to keep up with the latest recommendations and advancements to make sure your operation has a best-in-class approach.

Doing so is not always easy, as solutions for one issue can bring with it unintended consequences for another. For example, did you know that certain specifications designed to minimize corrosion could perhaps cause issues with maintaining wheel torque?

Or perhaps increased use of newer technologies such as tire pressure monitoring systems (TPMS) and automatic tire inflation systems (ATIS) may cause challenges with mounting/demounting tires or wheels, especially during roadside tire replacement?

Attend this session and hear more about these emerging issues and others as our panel of experts takes an in-depth look at

real-world tire and wheel challenges you may now — or soon will be — facing in your maintenance operation. Be prepared to raise your own questions, too, as we provide real-world solutions for these and other issues.



**S.2 Tire & Wheel Study Group**  
**Tuesday, March 5**  
**2:30 – 4 pm**

## S.4 Modern and Evolving Driver Interfaces: What These Mean for Your Operation



The human-machine interface has evolved considerably in commercial vehicles, especially within the last several years. Many of the technologies one sees in passenger car and light-truck applications have transferred to medium- and heavy-duty vehicles and the advancements have profound impacts for drivers and fleet maintenance operations.

These modern and evolving driver interfaces have great promise to improve driver performance by making more information available and

in highly customizable ways. The options available to fleets today are growing, not only from the original equipment manufacturers (OEMs) but also the vehicle aftermarket. Systems such as digital instrument clusters, infotainment displays, electronic parking brake controllers, stand-alone tire pressure monitoring systems, fleet telematics and electronic logging device tables, camera mirrors, and new sleeper environmental and audio control interfaces are all changing the way drivers interact with their equipment.

Attend this session as we present a panel of OEM and aftermarket suppliers who will discuss what amazing options and technologies are available today, and what's coming in the future when it comes to driver-vehicle interfaces.

**S.4 Cab & Control Study Group**  
**Tuesday, March 5**  
**2:30 – 4 pm**



*“When you come to TMC it’s an opportunity to shine and share your talents and your time — it is a playground for young leaders to develop and hone their skills and earn as many opportunities to help advance the industry as possible. You always meet new people, and each year you come back it’s like a reunion! You have such a friendly welcoming reception, and it has been the greatest professional development organization for me personally.”*

— Jill Gingrich, director, aftermarket customer solutions, Premier Truck Group

## S.6 Air Disc Brakes: Are They Worth It?

Air disc brakes have the potential to provide Class 7-8 vehicles greater braking power, shorter stopping distances and improved safety. They are becoming increasingly common on new tractors and trailers but are they the right choice for your fleet?

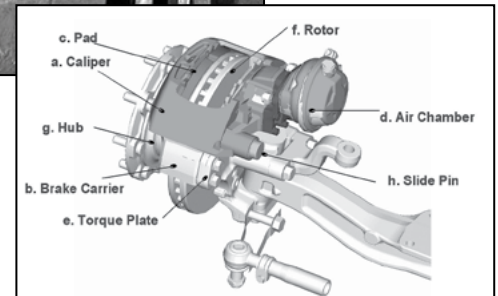
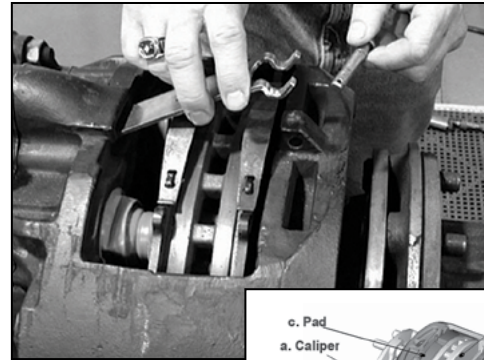
Manufacturers promote the fact that today's air disc brakes have longer service intervals and reduced maintenance costs than their earlier generation predecessors that help lower cost and downtime. But some fleets say otherwise because of reportedly shorter service life intervals and increased maintenance costs if anything more than pad replacement is required — especially when compared to the latest generation s-cam drum brakes.

Who is right?

Attend this session and hear a panel of vehicle / component manufacturers and fleets discuss the pros and cons of air disc versus drum brakes in Class 7-8 pneumatic applications. Topics will cover safety, stopping distance, friction material wear, downtime, fleet adoption and more.

If you've made the switch and have second thoughts, or if you're considering a move to air disc brakes, you're sure to find this session of great interest.

**S.6 Chassis & Brake Systems Study Group**  
**Tuesday, March 5**  
**4:15 – 5:45 pm**



## S.7 Side-Impact Guards: Are We Heading for an Install?

On April 21, 2023, the National Highway Traffic Safety Administration (NHTSA) published an advance notice of proposed rulemaking regarding side underride guards for newly manufactured trailers.

The rulemaking was required by the 2021 Infrastructure Bill, which also established an advisory committee to make recommendations on the subject. Research was also mandated under the bipartisan infrastructure law, which found that underride crashes are unreported. Limited benefits were determined due to a lack of testing and real-world data, and NHTSA noted there would be a net negative annual benefit of about \$1 billion if side under ride guards were mandated.

The American Trucking Associations (ATA) submitted comments to the notice on July 20; noting a number of operational concerns such as high centering events at loading facilities and rail grade crossings, and emphasizing a one-size fits all approach is not practical for all trailer designs. Instead, ATA said it believes that efforts to address side underride crashes instead should be focused on crash prevention and related technologies, such as Advance Driver Assistance Systems (ADAS).

Attend this session and hear the latest on where the proposed mandate for side-underride guards is in development, and what it will mean for your trailer fleet going forward in terms of specifications, maintenance, cost and operations.

**S.7 Trailers, Bodies & Material Handling Study Group**  
**Wednesday, March 6**  
**4:15 – 5:45 pm**



## S.12 Regulatory Reporting Standards — How to Access the Data?

Regulatory reporting standards are changing — driven by tightened emissions standards in the state of California. Are you ready to comply?

In December 2021, the California Air Resources Board approved the Heavy-Duty Inspection and Maintenance (HD I/M) Program, now known as Clean Truck Check, in an ongoing effort to meet air quality standards by ensuring heavy-duty vehicle emissions control systems operate properly throughout the life of the vehicle.

The program requirements include registration in the Clean Truck Check database (coming soon), per vehicle compliance fees, and periodic testing.

Clean Truck Check requires non-gasoline (diesel, alternative fuel, and hybrid) trucks, buses, and other heavy-duty vehicles, with a gross vehicle weight rating (GVWR) over 14,000 pounds that operate in California to undergo emissions testing. Clean Truck Check applies to most vehicles that operate in California, regardless of where they are registered. The purpose of the program is to ensure all emissions related equipment is functioning properly for the life of the vehicle.



The testing program will begin in July 2024.

The type of compliance test will depend on the model year of the engine in question. Onboard diagnostic (OBD) vehicles must complete an OBD-compliance test. Non-OBD vehicles will be subject to an SAE J1667 opacity test or visual and functional inspection. Testing must be provided by a credentialed clean truck tester, which can include certified vehicle owners, fleet employees or private for-hire testers

Attend this session and learn what the testing program will consist of in detail, what the testing will be like and how your fleet personnel will be required to access and present data demonstrating proof of compliance. If your fleet operates in California, or any of the states that subscribe to California standards, this is a must-attend session.

**S.12 Onboard Vehicle Electronics Study Group**  
**Thursday, March 7**  
**9:45 – 11:15 am**

## S.14 Maintenance Considerations for Electric Specialty & Vocational Vehicles



Applications utilizing light- and medium-duty trucks are among the earliest adopters of battery-electric vehicle technology. Much has been discussed about their specifications and operational characteristics, but how much do fleet managers know about the maintenance requirements and considerations for these vehicles?

During this session, panelists will provide an overview of key maintenance considerations for electric specialty and vocational vehicles. We'll cover important requirements for servicing these units in maintenance shop environments, as well as review key facility requirements needed for workplace safety.

Panelists will also cover new tooling requirements for working on these battery-electric powertrains, as well as new training requirements for technicians and critical safety procedures that must be followed should a vehicle crash occur.

If your fleet is beginning to in-service battery-electric vehicles, this session is a must.

**S.14 Last-Mile & Vocational Vehicles Study Group**  
**Tuesday, March 5**  
**4:15 – 5:45 pm**

## S.16 How to Safely and Properly Lift Electric Vehicles



Today's workforce is looking for superior workplace conditions and ergonomics, and the use of lifts in service bays can improve both efficiency and productivity while creating a more comfortable work environment for the technicians.

Reducing the possibility of workplace injuries and increasing the comfort level in the service bay will help to attract and hold quality technicians. Lifts provide much more ergonomic access to undercarriage components that require servicing and allow technicians to accomplish more tasks in less time, with less chance of an injury. This can translate to lower overall costs and higher technician satisfaction.

Chances are your operation is starting to use electric vehicles (EVs), but when it comes to servicing those vehicles in the shop, fleet managers and technicians need to realize lifting EVs isn't the same as lifting conventional vehicles.

First of all, EVs tend to be heavier, so you'll need to ensure the lift is properly spec'ed for the vehicle. Also, most EVs are designed with high-voltage batteries under the vehicle. These battery packs take up a lot of real estate in the undercarriage, and the lifting points will likely be in different places than is the case with conventionally powered trucks.

Attend this session as we discuss these and other important points on how to lift EVs safely and properly. We'll cover the suitability of the various lifting systems and what you need to know to keep your technicians safe.

**S.16 Service Provider Study Group**  
**Thursday, March 7**  
**9:45 – 11:15 am**

## S.18 Technician and Maintenance Shop Setup for Automated Vehicles

Increasing levels of automation are appearing on the latest models of Class 7-8 straight trucks and tractors at least on an optional basis. While fully autonomous vehicles remain the exception — not the norm — levels of automation that assist and not fully replace the human driver are quite commonplace.

Maintenance shop and technician training requirements for these types of systems differ in important ways from conventional vehicle maintenance and training programs in terms of content, tooling and shop support. Attend this session and learn the best ways to adjust your vehicle maintenance program to accommodate the needs of automated trucks in your fleet.

**S.18 Automated Vehicles Study Group**  
**Wednesday, March 6**  
**4:15 – 5:45 pm**



## STUDY GROUP BUSINESS SESSIONS



Several TMC Study Groups will not hold separate educational sessions at TMC's 2024 Annual Meeting, but they still need your input. The following Study Groups will hold business sessions in New Orleans at which they will update attendees on their task force activity, as well as solicit input and approval for new task forces to study pressing issues facing today's fleets:

- S.1 Electrical
- S.3 Engine
- S.5 Fleet Maintenance Management
- S.11 Sustainability & Environmental Technologies
- S.17 Collision & Corrosion Control

Your attendance and participation is important in identifying what projects and topics are to be pursued in TMC's various study groups. These meetings will be 30 minutes in length.

**Tuesday, March 5**  
**6 – 6:30 pm**

## **TMC Kickoff Breakfast** **Featuring: Chris Collins, Industry Expert** **and Inspirational Speaker**



**T**M C’s Tuesday Kickoff Breakfast Speaker is Industry Expert and Inspirational Speaker Chris Collins. Chris Collins, “The Bulldog of the Service Drive,” is author of the best-selling book “Gamification Playing For Profits,” “The Irreplaceable Service Manager” and, “Millionaire Service Advisor.” He’s host of the number one podcast in automotive, “Service Drive Revolution” and is known for, and prides himself, on having “The New Stuff!”

In an industry that’s quickly changing and evolving, Chris and his team are about real proven strategies and techniques in Profitability, Customer Experience/Retention, Leadership, and Gamification, all of which when implemented accurately, get immediate results.

Chris will share with TMC attendees his strategies for recruiting, developing and retaining shop personnel to improve your company’s maintenance operation.

**Tuesday, March 5**  
**6:45 – 8:15 am**

## **TMC’s Town Meeting & Fleet Operators’ Forum**



**T**M C’s best-attended event is always its Town Meeting and Fleet Operators’ Forum. TMC’s Town Meeting provides an opportunity for the Council to present members and attendees with information about what’s happening within TMC. Reports are provided regarding Council membership, meetings, and exhibits, as well as TMC

Recommended Practices, information reports, technical policy advisories and products. Additionally, a federal regulatory report is provided by a senior representative of ATA’s regulatory and policy affairs department.

TMC’s Silver Spark Plug Awards will be presented during the Town Meeting as well. The Silver Spark Plug is TMC’s highest honor.

TMC’s Fleet Operators’ Forum immediately follows the Town Meeting. At the Fleet Operators’ Forum, fleet attendees bring up equipment problems that they have been unable to resolve successfully with their product manufacturer or supplier. An update is given later during the week at TMC’s Fleet Operators’ Forum Wrap-up. If you have an issue you wish raised, please contact TMC at (703) 838-1763 or use

the following link to report your issue: [https://www.surveymonkey.com/r/TMC24A\\_FOF](https://www.surveymonkey.com/r/TMC24A_FOF).

**Monday, March 4**  
**5:15 – 6:45 pm**

## **Fleet Talk / Shop Talk**



**F**leet Talk and Shop Talk rank consistently as the most popular features at TMC general meetings. TMC’s Fleet Talk is a lively dialogue based on TMC’s successful Shop Talk format, but open only to fleet attendees. Topics of interest that emerge from this session will be raised at Shop Talk

later in the week for open discussion before the entire Council. Shop Talk, open to all registered attendees, offers a unique chance to learn and share the tricks of the trade from the industry’s best experts.

At both sessions, two veteran fleet managers will lead what will be a spirited discussion on what works or doesn’t work in vehicle maintenance.

**Fleet Talk**  
**Monday, March 4**  
**4 – 5 pm**

**Shop Talk & Fleet Operators’ Forum Wrap-up**  
**Wednesday, March 6**  
**7 – 8:30 am**

## **TMC Industry Awards Luncheon**

**T**M C’s Industry Awards Luncheon features the presentation of various Council and industry awards including the Recognized Associates Award, Study Group Secretary Award, Excellence in Maintenance Supervision Award, and others. A plated luncheon begins at 12:45 pm with award presentations commencing at approximately 1:30 pm. The TMC Leaders of Tomorrow graduating class — Class of 2024 — will also be recognized.

**Wednesday, March 6**  
**12:45 – 2:15 pm**

## **General Associates Meeting**

**O**pen to all registered associate (supplier/vendor) and service provider attendees, this meeting will feature the latest in a continuing series of interactive interviews with industry leaders designed to help associate and service provider attendees better understand their role within the industry in these dynamic times.

**Monday, March 4**  
**4 – 5 pm**

## Press Conferences

Press conferences will be held on Sunday, March 3 at various times by TMC exhibitor companies. Schedules will be distributed to TMC press contacts as the event draws closer. Additionally, TMC's meeting will feature a Media Room for press attendees that will offer working space. The Media Room will be open throughout the event beginning Sunday, March 3.

[NOTE: Additional press conferences will be held during specified exhibit viewing times on Monday, March 4 and Tuesday, March 5— if needed.]

**Sunday, March 3**  
8:30 am – 7 pm

## TMC's Annual Reception and Banquet

TMC's Annual Reception and Banquet will feature the traditional changing of the guard at which our new leadership will be installed for 2024-2025.

**Wednesday, March 6**  
7 – 10:30 pm



*"At TMC, you build lifetime relationships that not only help you and your company, but help the entire industry solve complex problems on a day-to-day basis. I have probably taken just as much as it has given to me, so I am very grateful to be part of that."*

— Homer Hogg,  
vice president truck services,  
TravelCenters of America

## Exhibit to Feature Technology Showcase for 2024

*ATA's Technology & Maintenance Council (TMC) is enhancing its 2024 Annual Meeting & Transportation Technology Exhibition by once again offering a "TMC Technology Ride & Drive" that will showcase cutting-edge/emerging technologies via a live demonstration (e.g., ride & drive) format. Specific technology categories will be identified by staff and vetted by TMC's volunteer Meeting Planning Committee, and TMC exhibitors with offerings in those areas of interest will be approached to demonstrate as part of this meeting segment.*

*Ride & Drive Sponsorship and exhibit booth space is required to participate — \$25,000 for ride/drive presentation. Ride & Drive is not a traditional TMC educational offering, which has strict rules regarding commercialism, but rather a supplemental activity of our Transportation Technology Exhibition.*

*The Ride & Drive will be open to all registered TMC attendees, and a special invitation will be made to members of both trade and lay media. For more information, contact ATA Director, Allied Partnerships & Exhibits Dan Duggan at (703) 838-1756; [dduggan@trucking.org](mailto:dduggan@trucking.org).*

*NOTE: All participants in TMC's Technology Showcase program must be current year exhibitors holding the same or greater space commitment as the previous year's TMC Transportation Technology Exhibition.*

## 'Sustainability & Automated Vehicles' Pavilion Featured at 2024 Exhibition

*For 2024, TMC's Transportation Technology Exhibition will feature a special pavilion for sustainability and automated vehicle technologies. Appropriate technologies for this area of the exhibition include: cybersecurity, automated driving and platooning, drone/quadcopter applications for transportation and related specification/maintenance, advanced driver assistance systems (ADAS) and alternatively powered vehicles.*

*A special area will also showcase various proposals for the next generation tractor-trailer electrical connector, which will be critical for the development of future combination vehicle designs.*

*TMC's 2024 exhibit will provide one-stop shopping for the busy fleet executive who wants to quickly get up to speed on all segments of emerging and advanced technology in these areas.*

*Maintenance and purchasing executives will ultimately be charged with developing the proper spec's and making the right decisions appropriate to their fleet. Make sure your company gets the information it needs at TMC's 2024 Sustainability and Automated Vehicles Pavilion.*

## Meeting Safely, Together

TMC is working closely with the Ernest N. Morial Convention Center and our partner hotels to help ensure the health and safety of all meeting participants. TMC will be implementing appropriate measures including sanitation and cleaning protocols and other actions as per facility guidelines.

## Meeting Registration Fees & Policies

To attend all business sessions, exhibition viewing periods, breakfasts, luncheons, cocktail receptions, etc., you must be fully registered. The Member rate is applicable to all TMC and ATA members.

## Three Ways to Register

### Online

Registering online at <http://tmcannual.trucking.org> is the fastest and easiest way to register for the meeting and secure your hotel room. Once you have successfully registered online, by fax, or mail you will receive an email confirmation which will contain your personal hotel reservation link.

If you need assistance with username and/or password to register online, please call ATA Registrations at (866) 821-3468 from 8:30am - 5:30pm ET or email: [registrations@trucking.org](mailto:registrations@trucking.org) or [tmc@trucking.org](mailto:tmc@trucking.org).

### By Fax/Email

If registering by fax (with completed credit card information) or mail (with a completed check), address and fax information is provided below. Faxed registrations take up to 72 hours to process. Fax: (703) 838-1701. Mail: TMC 2024 Annual Meeting Registration, ATA Registrations, 80 M Street, SE, Suite 800, Washington, D.C. 20003.

If you need to cancel your meeting registration, please send written notification of cancellation to [registrations@trucking.org](mailto:registrations@trucking.org) on or before February 2, 2024, and you will receive a refund less a \$200 per person administrative fee. No refunds for registration fees will be processed for cancellations postmarked after this date.

**IMPORTANT:** No refunds for registration fees will be processed for cancellations postmarked after February 2, 2024.

## Registration Fees

Full Meeting Registration Fees include all business sessions, food functions and social events. Please register your spouse/guest using the Spouse/Family Registration section on the Full Meeting Registration form (online or PDF). This will ensure admittance at all open meeting functions. Spouse/Guest registration includes entry to exhibit hall, food functions, receptions and Banquet; does not include access to business sessions. For membership information, call 703-838-1763, email [tmc@trucking.org](mailto:tmc@trucking.org), or visit <http://tmc.trucking.org>.

## Fully Registered Meeting Attendees

### Early Bird Registration Fees

(on or before February 2, 2024)

Full Meeting Registration (TMC or ATA member)	\$850
Full Meeting Registration (TMC or ATA non-member)	\$1400
Full Meeting Registration, First-Time Fleet or Service Provider Attendee (member/non-member; subject to verification)	\$550/\$1100
Spouse/Family Badge (TMC or ATA non-member)	\$300/\$600

### Regular Registration Fees

(after February 2, 2024)

Full Meeting Registration (TMC or ATA member)	\$950
Full Meeting Registration (TMC or ATA non-member)	\$1400
Full Meeting Registration, First-Time Fleet or Service Provider Attendee (member/non-member; subject to verification)	\$650/\$1100
Spouse/Family Badge (TMC or ATA non-member)	\$300/\$600

**NEW FOR 2024:** You may now register other attendees and exhibitors from the same company for the 2024 TMC Annual Meeting when logged in with your individual credentials. Contact [registrations@trucking.org](mailto:registrations@trucking.org) with questions.

## Membership Saves!

When you join TMC or renew your TMC membership, you qualify for TMC member registration fee pricing. Non-members—join TMC to enjoy the best rates. Non-members who pay the fully registered, non-member rate will otherwise receive membership in TMC for the balance of 2024, unless TMC staff is otherwise notified. To save the most money, be sure to join or renew first – you could save up to \$260 by doing so. Your membership will save you big for TMC’s 2024 Fall Meeting in September, too.

## Special Discount Offered for First-Time Fleet, Educator and Service Provider Attendees

First-time fleet, educator and service provider attendees may take advantage of a special \$300 discount! To take advantage of this offer, call (703) 838-1763 or email: [tmc@trucking.org](mailto:tmc@trucking.org) for verification of your first-time status and you’ll receive a discount code to use when registering online.

## Substituting for a TMC Member

Membership has its privileges — Only TMC Members receive the TMC Member registration rate. TMC does not allow non-member individuals to substitute for a TMC member; however, exceptions may be made for certain extenuating circumstances. Call TMC staff at (703) 838-1763 for details.

## Refund Policy

If your plans to attend TMC’s meeting changes, you may receive a refund – less a \$200 administrative fee – up until February 2, 2024. There will be no refunds or credits after February 2, 2024. Written cancellations accepted by fax (703) 838-1701 or email at [registrations@trucking.org](mailto:registrations@trucking.org).

**NOTE:** There will be a \$200 administrative fee for those Associate Attendees who downgrade their badge status from “Blue” (fully registered) to “Orange” (exhibitor only) after having so registered.

## Housing

ConferenceDirect is the official housing bureau for TMC’s Annual Meeting. Only those registered for the meeting will receive a hotel booking link in their registration confirmation email. The deadline to complete your hotel reservation at the TMC/ATA discounted rate is February 2.

HOTEL (Full Meeting Registrants Only)	NIGHTLY RATE (single/double)
New Orleans Marriott	\$269
Sheraton New Orleans	\$269
New Orleans Marriott Warehouse Arts District Hotel	\$299
Renaissance New Orleans Arts Warehouse District	\$279
SpringHill Suites New Orleans Downtown/Convention Center	\$269
Courtyard New Orleans Downtown/Convention Center	\$259
Hampton Inn & Suites New Orleans Convention Center	\$270
Hilton New Orleans Riverside	\$299

Shuttle service will be provided to and from the New Orleans Ernest N. Morial Convention Center, the New Orleans Marriott and the Sheraton New Orleans. A shuttle schedule will become available in January 2024.

Nightly rates do not include taxes and fees, which are subject to change without notice. Rates may increase with additional occupancy. A deposit equal to one night’s room and tax is required and will be charged by the hotel on or around February 9.

If you need to make changes to your hotel reservation (arrival/departure/cancellation), please contact ConferenceDirect at (833) 638-6496 or mail to: [tmc@conferencedirect.com](mailto:tmc@conferencedirect.com), Monday – Friday, 10 am – 6 pm (ET). ConferenceDirect will charge a \$30.00 cancellation fee for any reservation cancellation made at any time.

## Attire

Attire for TMC’s 2024 Annual Meeting is business casual.



## NATMI

North American Transportation Management Institute

### **Certification Courses Offered This March for Maintenance Directors and Supervisors by NATMI, TMC**

***Want to become a certified maintenance professional? Now you can do it for less money and in less time!***

TMC and the North American Transportation Management Institute (NATMI) have teamed up to strengthen and increase the visibility of the Certified Director of Maintenance certification (CDM/E) and Certified Supervisor of Maintenance certification (CSM/E).

TMC's Education Subcommittee and NATMI's Oversight Committee have collaborated on examining, updating and enriching all aspects of the program, including certification requirements, scope, class schedules and locations, and educational content.

The courses will be held onsite March 7-9 in New Orleans, La., at the Ernest N. Morial Convention Center in conjunction with TMC's 2024 Annual Meeting.



### **COURSES**

#### ***Essentials of Fleet Maintenance Management***

**Courses will be held on Thursday, March 7, 2024 and Friday, March 8, 2024.**

**Certification Exams will take place on Saturday morning, March 9, 2024.**

The two-day Essentials of Fleet Maintenance Management course is applicable toward NATMI's nationally recognized, university-accredited certification programs. Taking the course is the first step toward earning a credential that will help you become a more competent professional, earn industry recognition and credibility in court testimony. For more information on membership or how to become certified, call (303) 952-4013.

If you have the job experience, you can pay one lump sum that covers all fees for certification, and complete the process within 60 days of taking the training and exam.

#### ***How to Become a Certified Maintenance Professional...***

##### ***Job Experience Required:***

Certified Director of Maintenance/Equipment (CDM/E):

5 Years (or 4 years if you have a college degree) experience in fleet maintenance management

Certified Supervisor of Maintenance/Equipment (CSM/E):

2 years in fleet maintenance profession

There are education and experience certification requirements as well. CDM/E and CSM/E candidates are full-time administrators who have ably demonstrated their expertise and leadership in establishing programs, policies, setting standards, and mastering new technologies and systems.

#### ***To Register:***

For more information, or to register, visit NATMI's website at [www.natmi.org](http://www.natmi.org).

TMC members may register for the course at the NATMI member rate! Additional information on the CDM/E and CSM/E programs may be obtained from Kelly Long Crow at (720) 259-2185.

### ***TMC Spouses' Program for 2024***

TMC no longer offers organized Council-led and managed spouse tours as part of our TMC Annual and Fall Meeting Programs. However, TMC does offer spouse registration for its Annual Meeting that includes access to meal functions, exhibit viewing periods, receptions and social events. See page 16 for registration information.

## S.1 – Electrical

### RP Updates (S.1)

**Chairman:** Albert Mihic, Delco Remy, (765) 778-6541

This Task Force will review existing S.1 Recommended Practices and update them as needed.

### Fifth Wheel Ground Strap Maintenance Guidelines

**Chairman:** Larry Rambeaux, Purkeys, Inc., (479) 531-7769

This Task Force will develop a Recommended Practice to provide a systems approach to properly maintain ground straps on heavy-duty truck fifth wheels and truck frames. Task Force retired 10/3/2023.

### Next Generation Tractor/Trailer Electrical Interface

**Chairman:** Dan Forthoffer, Phillips Industries, (313) 949-9178

This Task Force will work to create backward-compatible, future-looking definition of tractor to trailer interface connections for improved safety, autonomous operation, enhanced diagnostics, and increased durability. It will consider both wired and wireless connectivity.

### Electrical Diagnostics Incorporating Lab Scopes

**Chairman:** George Arrants, ASE Education Foundation, (281) 850-1676

The Task Force will develop a Recommended Practice regarding dynamic diagnostics and communications systems utilizing lab scopes, and to provide an understanding of the wide range of testing and information retrieval of live data. Its purpose is to reduce "guesswork" on information and electrical circuits of 21st century vehicles.

### Advanced Battery Technology

**Chairman:** Jeffrey Coleman, East Penn Logistics, (610) 682-6361

This Task Force will develop a Recommended Practice providing guidelines for advanced battery Technologies.

### Rear Facing LED Out-of-Service Criteria

**Chairman:** Robert Koelzer, Peterson Manufacturing Co., (816) 801-2391

This Task Force will develop a Recommended Practice regarding identification of conditions in rear facing LED lights requiring removal from service.

### Wireless EV Charging Recommendations

**Chairman:** Michael Masquelier, Utah State University, (773) 962-1135

This Task Force will develop guidelines regarding inductive charging applications for Commercial Electric Vehicles.

### Chassis to Body Electrical Interface Guidelines for Construction Trucks

**Chairman:** David Troupe, Volvo Trucks, (336) 393-4164

This Task Force will develop guidelines for a common electrical chassis to body interface for construction vehicles.

### Microgrids and Battery Storage (Joint S.1/S.11)

**Chairman:** Jody Younce, UPS, (864) 425-5079

The Task Force will develop a recommended practice on microgrids and battery storage pertaining to electric commercial vehicles.

### RP 107C/RP 159 Update (Tractor-Trailer Connector Maintenance/Spec'ing)

**Chairman:** Bruce McKie, Techtran, (416) 346-4540

This Task Force will update both RPs related to maintenance and specifications for the standard tractor/trailer connection.

### RP 169 Update (Road Service Diagnostic Process)

**Chairman:** Curtis Cummings, Delco Remy/Phinia, (317) 607-1147

This Task Force will update RP 169 covering road service diagnostic process.

### RP 185 Update (Reefer Shorepower Guidelines)

**Chairmen:** Larry Rambeaux, Purkeys Inc., (479) 531-7769;

Matt Srnec, Thermo King, (952) 426-0104

This Task Force will update RP 185 covering shore power guidelines for cargo box refrigeration systems.

## S.2 – Tire & Wheel

### RP Updates (S.2)

**Chairman:** Patricia Meisenholder, Advanced Wheel Sales LLC,

(864) 458-6413

This Task Force will review existing S.2 Recommended Practices and update them as needed.

### Use of Telematics for ATIS and TPMS

**Chairman:** Lee Demis, Doran Manufacturing, (513) 699-6230

This Task Force will develop a Recommended Practice covering the application of telematics in Automatic Tire Inflation Systems and Tire Pressure Monitoring Systems.

### Considerations for Tires on Commercial Electric Vehicles (S.2/S.18)

**Chairman:** Dan Shy, Goodyear Tire & Rubber, (330) 283-3817

This Task Force will evaluate the use of tires on Commercial Electric Vehicles (EVs) and develop information reports and/or RPs based upon those considerations.

### Tire Conditions Analysis Guide for Light Commercial Vehicles (S.2/S.14)

**Chairman:** Troy Tipton, Michelin NA, Inc., (260) 446-6880

This Task Force will develop a Tire Conditions Analysis Guide for Light Commercial Vehicles.

### Tire Maintenance Considerations for Light Commercial Vehicles (S.2/S.14)

**Chairman:** Randy Patterson, Bridgestone Comm. Solutions,

(601) 209-1946

This Task Force will develop considerations for tire maintenance on light-duty commercial vehicles and develop an information report and/or RP based upon those considerations.

### Tire Maintenance Management Systems

**Chairman:** Judith Monte, Aperia Technologies, (248) 842-7992

The purpose of the Tire Maintenance Management Task Force is to help fleet managers utilize available information to make decisions regarding effective tire maintenance. It provides guidelines for capturing and processing available data and how to use that information to benefit fleet tire maintenance. The Task Force and associated recommendations apply to any maintenance organization, whether they perform tire maintenance in-house, through an outsourced third party, or a combination of the two. Each fleet must determine which course of action will provide the most significant benefit to managing tire maintenance.

### Proper Tire Mounting With Tire Pressure Monitoring Systems (TPMS)

**Chairman:** Joseph Heath, Tire Industry Association, (513) 582-3260

This Task Force will develop guidelines for tire mounting procedures for tires and wheels equipped with TPMS sensors.

## S.3—Engine

### **RP Updates (S.3)**

*Chairman: Paul Cigala, ExxonMobil Corp., (856) 404-1342*

This Task Force will review existing S.3 Recommended Practices and update them as needed.

### **LNG/CNG Post-Collision and Post-Thermal Events**

*Chairman: Chris Culberson, Momentum Technologies, (817) 767-6039*

This Task Force will develop a recommended practice on recovery/repair practices following thermal events associated with LNG/CNG fueled commercial vehicles. Task Force retired 10/3/2023.

### **Coolants for Electric Vehicles**

*Chairman: Joe Long, PEAK Commercial & Industrial, (203) 648-2849*

This Task Force will evaluate the use coolants on Commercial Electric Vehicles (EVs) and develop information reports and/or RPs based upon those considerations.

### **Lubrication for Electric Vehicle**

*Chairman: Bryan Stewart, Jones Logistics, (601) 466-6798*

This Task Force will evaluate the use lubricants on Commercial Electric Vehicles (EVs) and develop information reports and/or RPs based upon those considerations.

### **Guidelines for Testing and Leak Detection for Electric Vehicle Powertrain Systems**

*Chairman: Mark Hawkins, Redline Detection, (714) 919-7704*

This Task Force will evaluate methods for testing and detection of leaks in the powertrains of commercial Electric Vehicles (EVs) and develop information reports and/or RPs based upon those considerations.

### **RP 301D Update (Air Intake System Maintenance)**

*Chairman: Matthew Almuist, The Donaldson Company, (612) 708-6667*

This Task Force will update RP 301D, which provides maintenance considerations for air intake systems on Commercial Motor Vehicles.

### **RP 318C Update (Engine Oil Analysis)**

*Chairman: Paul Cigala, ExxonMobil Corp., (856) 404-1342*

This Task Force is updating RP 318C covering engine oil analysis guidelines for heavy-duty diesel powered commercial vehicles.

### **RP 319B Update (SCA Guidelines)**

*Chairman: Paul Woyciesjes, Prestone Products Corp., (203) 731-8105*

This Task Force is updating Rp 319B covering supplemental coolant additives for commercial diesel-powered vehicles.

### **RP 322B Update (Coolant Pump Failure Modes)**

*Chairman: Frank Woodson, Gates Corp., (314) 630-6644*

This Task Force is updating RP 322B overing coolant pump failures.

### **RP 348A Update (Coolant Hose Rating Factors)**

*Chairman: Travis Whitmore, Gates Corp., (802) 488-0761*

This Task Force is updating RP 348A covering coolant hose rating factors for commercial vehicles.

### **RP 360 Update (Diesel Exhaust Fluid Guidelines)**

*Chairman: Paul Cigala, ExxonMobil Corp., (856) 404-1342*

This Task Force is updating RP 360 covering diesel exhaust fluid (DEF) guidelines.

### **RP 363A Update (Under-hood Thermal Event Preventions)**

*Chairman: Bruce Balfour, Clean Diesel Specialists, (714) 276-2020*

This Task Force is updating RP 363A covering under-hood thermal event prevention in diesel-powered commercial vehicles.

## S.4—Cab & Controls

### **RP Updates (S.4)**

*Chairman: Andrew Krum, Va. Tech Transportation Institute, (540) 231-0353*

This Task Force will review existing S.4 Recommended Practices and update them as needed.

### **RP 404B Update (Truck & Truck Tractor Access Systems)**

*Chairman: Andrew Krum, Va. Tech Transportation Institute, (540) 231-0353*

This Task Force will review and update RP 404B, "Truck and Truck Tractor Access Systems."

### **RP 420B Update (HVAC Service Life Requirements)**

*Chairman: Brett Herrmann, Bergstrom, Inc., (815) 874-7821*

This Task Force will review and update RP 420B, covering the Minimum Service Life Requirements for Heavy-Duty HVAC Cab Controls.

### **RP 430 Update (Guidelines for Collision Warning)**

*Chairman: Mark Kennedy, Knight Swift Transportation, (602) 477-7177*

This Task Force will update TMC RP 430, which covers collision warning systems used on heavy-duty trucks.

### **Conversion of Rear View Mirrors to Cameras**

*Chairman: Brian Kujala, Link Manufacturing, (616) 249-8496*

This Task Force will develop a recommended practice regarding installation of cameras to replace rear view mirrors in truck-tractors.

### **In-Cab Gas Detectors**

*Chairman: Kirk Altrichter, The Kenan Advantage Group, (330) 409-2122*

This Task Force will develop a recommended practice regarding equipment to detect carbon monoxide (CO) and smoke in the cab of a truck-tractor.

### **Odometer Synchronization**

*Chairman: Geoff Selby, D&D Instruments, (612) 378-1224, Ext. 31*

This Task Force will develop a new Recommended Practice regarding synchronization of the mileage readings of new/replacement odometers with various in-cab devices that record vehicle mileage.

## S.5—Fleet Maintenance Management

### **RP Updates (S.5)**

*Chairman: Paul Birkenstock, New Market Sales, (516) 241-2213*

This Task Force will review existing S.5 Recommended Practices and update them as needed.

### **VMRS Codes**

*Chairman: Paul Moszak, MOTOR Information Systems, (585) 789-1691*

The VMRS Codes Task Force's purpose is to explain the benefits and to foster the use of the Vehicle Maintenance Reporting Standard (VMRS) system. The Task Force also encourages the exchange of information and user problems between VMRS system users and establishes new parts codes as requested.

## VMRS Coding for Predictive and Prognostic Maintenance

*Chairman: Brian Mulshine, Navistar, Inc., (630) 215-6322*

This Task Force will develop code keys and instruction sets for predictive and prognostic maintenance. It's objective is to create language/schema to be leveraged by vehicle OEMs to digitally communicate maintenance and repair requests.

## Cybersecurity Issues

*Chairman: Mark Zachos, DG Technologies, (248) 488-2080*

This Task Force will explore preventive cybersecurity methods; develop guidelines for fleets to create their own cybersecurity program; standardize over-the-air ECM programming through specific protocols that allow fail safe options and secure messaging; work with other associations to strengthen related standards by fleet user influence; examine the development of a reporting and responding alert program for industry users; and examine the possibility of developing a cyber-intrusion challenge track as part of the TMC SuperTech competition.

## Hiring Military Veterans

*Chairman: Kirt Weaver, Link Manufacturing, (616) 608-1244*

This Task Force is investigating pathways of hiring former military personnel to ease the current industry technician shortage.

## Health Ready Components Standards

*Chairman: Wally Stegall, The Morey Corp., (630) 842-0489*

This Task Force will develop a recommended practice regarding the use of VMRS codes in developing data sheets for health ready componentry in conjunction with SAE International Health Ready Component Signaling practice.

## Root Cause Analysis

*Chairman: Matt Farcosky, FleetPro, Inc., (410) 247-1310*

This Task Force will develop a Recommended Practice for Root Cause Analysis for fleet maintenance operations.

## Electric Vehicle Pre-trip Inspection

*Chairman: Richard Johnson, Benore Logistics Systems, (864) 414-3817*

This Task Force will develop guidelines for design pre-trip inspection procedures on electric commercial vehicles.

## Electric Vehicle Shop Bay Planning (S.5/S.16)

*Chairman: Adam Krey, Navistar, Inc., (331) 332-8626*

This Task Force will develop procedure for pre-trip inspections on electric commercial vehicles.

## Cost Benefit Analysis of Extended Warranty

*Chairmen: Ivy Abernathy, U.S. Xpress Enterprises, (423) 653-3090;*

*Caitlin Dillon, Jones Logistics, (601) 441-3949*

The Task Force will develop guidelines for analysis the costs and benefits of an extended warranty program.

## Parts Room Design Standardization

*Chairman: Wayne Skinner, Ozark Motor Lines, (901) 427-2163*

This Task Force is developing guidelines for standardizing parts room design.

## S.6—Chassis & Brake Systems

### RP Updates (S.6)

*Chairman: Jack Vander Giessen, Cummins-Meritor (248) 761-3881*

This Task Force will review existing S.6 Recommended Practices and update them as needed.

### RP 622B Update (Wheel Seal/Bearing Maintenance)

*Chairman: Keith Fally, STEMCQ Systems, (903) 631-9182*

This Task Force will update RP 622B providing maintenance guidelines for MD-HDT wheel seals and bearings.

### RP 628C Update (Aftermarket Brake Lining Classification)

*Chairman: Ron Moody, Haldex Brake Products, ron.moody@haldex.com*

This Task Force will review and Update RP 628C, which provides information for judging the performance of aftermarket brake linings on air-actuated foundation brakes.

### RP 656A Update (Hub & Spoke Fastener Maintenance)

*Chairman: Steve Williams, Dayton Parts, Inc, (813) 847-5590*

This Task Force will update the maintenance guidelines for hub & spoke wheels found in RP 656B.

### Towing Electric Vehicles

*Chairman: Jack Vander Giessen, Cummins-Meritor, Inc., (248) 761-3881*

This Task Force will develop a Recommended Practice covering guidelines for the towing of electric commercial motor vehicles.

## S.7—Trailers, Bodies & Material Handling

### RP Updates (S.7)

*Chairman: Jeff Updike, Stoughton Trailers, (608) 873-2500*

This Task Force will review existing S.7 Recommended Practices and update them as needed.

### Brake-Activated Pulsating Lamps

*Chairman: Jeff Geoffroy, Peterson Manufacturing Co., (617) 852-7182*

This Task Force will develop recommendations regarding specifications, installation, and maintenance of supplemental, pulsating brake lamps on trailers.

### Upper Coupler and Kingpin Repairs

*Chairman: Jay Davenport, Peterson Manufacturing, (816) 765-2000*

This Task Force will develop guidelines for the inspection and maintenance of upper couplers and kingpins on trailers. Task Force retired 10/3/2023.

### RP 707A Update (Rear Bumper Dimensions)

*Chairman: Justin Olsen, TCW, Inc., (912) 966-0910 EXT. 4010*

This Task Force will update RP 707A, which provides dimension for the rear bumper on trailers.

### RP 729 Update (Trailer Fastener Specifications)

*Chairman: Justin Olsen, TCW, Inc., (912) 966-0910 EXT. 4010*

This Task Force will update requirements for specifying fasteners on trailers.

### RP 754A Update (Liftgate Charging)

*Chairman: Jimmy Fielding, Purkeys, (479) 621-8282*

This Task Force will update RP 754A, which provides specification and general operating guidelines for liftgate charging and power circuits.

### RP 755A Alternative Liftgate/ Material Handling Charging Methods

*Chairman: Larry Rambeaux, Purkeys, (479) 419-4800*

This Task Force is updating RP 755A which covers alternative liftgate and material handling charging methods. The scope of this Task Force will also include the evaluation of all trailer power alternatives.

### Exploring Trailer Voltage Drop for Current & Future Demands

*Chairman: Gary Gaussoin, Silver Eagle Manufacturing Co., (503) 335-2114*

This Task Force will examine voltage drop in trailer applications and develop information reports or recommended practices based on these findings.

## S.11—Sustainability & Environmental Technologies

### RP Updates (S.11)

*Chairman: Eileen Lindberg, Cummins Sales & Service, (248) 318-9203*

This Task Force will review existing S.11 Recommended Practices and update them as needed.

### SmartWay Activities

*Chairman: Taki Darakos, PITT OHIO, (412) 944-4961*

This Task Force will present an ongoing series of informational presentations regarding EPA SmartWay's Greenhouse Gas Emissions Model (GEM) for medium- and heavy-duty vehicle compliance.

### Energy Conservation/Industry and Sustainability Update (S.11/FT)

*Chairman: Taki Darakos, PITT OHIO, (412) 944-4961*

This Task Force will develop position papers that will challenge the industry to implement change in practices and performance as it relates to energy conservation.

### Electric Terminal Tractor Implementation Considerations

*Chairman: Patrick Seeberg, Cummins-Meritor, Inc., (248) 435-1382*

This Task Force will develop a recommended practice on implementation options for terminal tractors equipped with electric powertrains.

### RP 1109B Update (Type IV Fuel Economy Test Procedures)

*Chairman: Brian Wilson, Southwest Research Institute, (210) 522-3873*

This Task Force will update RP 1109B, Type IV Fuel Economy Test Procedures.

### Energy Efficiency Test Methods for Electric Vehicles

*Chairman: Brian Wilson, Southwest Research Institute (210) 522-3873*

This Task Force will explore development of a recommended practice for testing the energy efficiency of electric commercial vehicles.

### Understanding Electric Vehicle Efficiency Performance

*Chairman: Kevin Otto, Retired Silver Spark Plug, (812) 447-9311*

This Task Force will develop guidelines for methodologies to assess the efficiency of commercial electric vehicles (EVs).

### Recommendations for Developing Charging Station Infrastructure for Commercial Fleet Operations

*Chairman: Jon Miller, Volvo, (480) 239-7389*

This Task Force will develop guidelines for design and maintenance of infrastructure to support electric commercial vehicle fleet maintenance operations.

### Fleet Expectations and Guidelines for Spec'ing Electric Vehicles

*Chairman: Patrick Seeberg, Cummins-Meritor, (248) 435-1382*

This Task Force will develop guidelines to assist fleets in selecting and specifying electric vehicles for commercial operations.

### TCO Calculator for Electric Vehicles

*Chairman: David Black, Flowbelow Aero, (859) 494-8569*

This Task Force is developing a total cost of ownership (TCO) calculator for electric vehicles.

### Microgrids and Battery Storage (Joint S.1/S.11)

*Chairman: Jody Younce, UPS, (864) 425-5079*

The task Force will develop a recommended practice on microgrids and battery storage pertaining to electric commercial vehicles.

## Charge Cycle Optimization and Energy Management for Battery Electric Vehicles

*Chairman: Taki Darakos, PITT OHIO, (412) 944-4961*

This Task Force will develop recommended practices or information reports for Charge Cycle Optimization and Energy Management for Battery Electric Vehicles.

## S.12—On-Board Vehicle Electronics

### RP Updates (S.12)

*Chairmen: Kurt Dunn, PITT OHIO, (412) 232-3015; Ken DeGrant,*

*Dr. Diesel Technologies, (859) 358-1485*

This Task Force will review existing S.12 Recommended Practices and update them as needed.

### RP 1210D Update (Windows API)

*Chairman: Ken DeGrant, Dr. Diesel Technologies, (859) 358-1485*

This Task Force will update RP 1210D on Windows API and develop a new annex for CAN-FD.

### RP 1226 Messaging/Accessory Databus Standardization

*Chairman: Wally Stegall, The Morey Corp., (630) 842-0489*

This Task Force is developing a recommended practice that defines messages and standards for RP 1226, which covers telematics and on-board diagnostic accessory connectors.

### Open Telematics API

*Chairmen: Sean Bumgarner, Old Dominion Freight Line, (336) 822-1260;*

*Vince Vanszl, Penske Truck Leasing, (610) 451-2480*

This Task Force will develop a Recommended Practice for standardized Open Telematics API for retrieving telematics logs and data, utilizing a schema developed by the National Motor Freight Traffic Association (NMFTA) Inc.

### CAN Bus Troubleshooting

*Chairman: Ken DeGrant, Dr. Diesel Technologies, (859) 358-1485*

This Task Force will develop guidelines for troubleshooting CAN Bus issues.

### Open Wireless VDA API

*Chairman: Ken DeGrant, Dr. Diesel Technologies, (859) 358-1485*

This Task Force will develop a Recommended Practice for standardized Open Wireless VDA API.

### Regulatory Reporting Standards

*Chairman: Lee Lackey, Noregon Systems, Inc., llackey@noregon.com*

This Task Force will develop information regarding regulations which require compliance data from on-board system, including how and when the data is to be submitted and the use of that data.

## S.14—Last-Mile & Vocational Vehicles

### RP Updates

*Chairman: Larry Disque, Leyman Liftgate Co., (336) 219-2604*

This Task Force will review existing S.14 Recommended Practices and update them as needed.

### ePTO and Hybrid Auxiliary Power Systems in Vocational Vehicles

*Chairman: Rick Formisani, The Timken Company, (317) 877-3810*

This Task Force will explore application of electric PTOs and hybrid auxiliary powertrains to work-performing platforms/systems in Class 2-6 and vocational vehicles.. Task Force retired 10/3/2023.

## **White Lighting and Lumen Rating Definitions for Work Lamps**

*Chairman: Jay Davenport, Peterson Manufacturing Company, (816) 765-2000*

This Task Force will develop a Recommended Practice to define lumen ratings for white LED work lamps.

## **VMRS Code Development for Specialty Equipment**

*Chairman: Robert Nordstrom, Decisiv, Inc., (804) 762-4153*

This Task Force will work with the TMC VMRS Codes Committee (S.5) to identify and develop new categories pertaining to Specialty Vehicle equipment and systems.

## **Tire Conditions Analysis Guide for Light Commercial Vehicles (S.2/S.14)**

*Chairman: Troy Tipton, Michelin NA, Inc., (260) 446-6880*

This Task Force will develop a Tire Conditions Analysis Guide for Light Commercial Vehicles.

## **Tire Maintenance Considerations for Light Commercial Vehicles (S.2/S.14)**

*Chairman: Randy Patterson, Bridgestone Comm. Solutions, (601) 209-1946*

This Task Force will develop considerations for tire maintenance on light-duty commercial vehicles and develop an information report and/or RP based upon those considerations.

## **Class 2-6 Electric Vehicle Inspection Standards**

*Chairman: Ron Schorenstein, Accustrip, (973) 299-8237*

This Task Force is developing standard for inspection of Class 12-6 Electric vehicles.

## **S.16—Service Provider**

### **RP Updates**

*Chairman: Daniel Mustafa, TravelCenters of America, (931) 206-2697*

This Task Force will review existing S.16 Recommended Practices and update them as needed.

### **Implementing TMC RPs in Fleet & Service Provider Operations**

*Chairmen: Jill Gingrich, Premier Truck Group, (940) 280-5427;*

*Doug Will, STEMCO, (267) 718-5127*

This Task Force will develop guidelines for implementing/utilizing TMC recommended practice in fleet and service provider operations.

### **Proper Vehicle Lifting Procedures and Equipment**

*Chairman: Radu Pop, Stertil-Koni, (470) 717-3127*

This Task Force will develop recommended practices to help shop managers choose the correct types of lifting equipment for their type of maintenance operations, and general safety, productivity, and ergonomic considerations.

### **RP 1612 Update (Service Event Data Transparency)**

*Chairman: Daniel Mustafa, TravelCenters of America, (931) 206-2697*

This Task Force will update TMC RP 1612 additional recommendations to help Service Providers more effectively use digital information to plan and complete service or maintenance events in the most efficient manner possible.

### **Establishing Standards of Excellence for Service Providers**

*Chairman: Joel Sulser, AMBEST, Inc., (815) 997-5889*

This Task Force will develop a Recommended Practice for standardized quality performance measurements for service providers.

## **When to Trade or Keep a Vehicle (S.5/S.16)**

*Chairman: Matt Jablon, DTNA, (713) 213-2999*

This Task Force will work to develop a resource to guide managers and leaders through the process of determining if a vehicle should be traded, sold or continue in operation.

## **Safety Aspects of Electric Vehicles**

*Chairmen: Chas Voyles, Navistar, (260) 227-1377;*

*Ashley Rush, Navistar, (440) 610-7944*

This Task Force is developing guidelines for the safe servicing and maintenance of electric vehicles.

## **Electric Vehicle Shop Bay Planning (Joint S.5/S.16)**

*Chairman: Adam Krey, Navistar, Inc., (331) 332-8626*

This Task Force will develop procedure for pre-trip inspections on electric commercial vehicles.

## **S.17 — Collision & Corrosion Control**

### **Corrosion Manual Update**

*Chairman: Al Anderson, Peterson Manufacturing, (913) 333-8279*

This Task Force will update TMC's *Corrosion Manual*.

### **Heavy-Duty Collision Repair Roadmap**

*Chairman: Justin Worden, Nussbaum Transportation Services, (309) 319-9262*

This Task Force will develop a roadmap/flowchart for the steps needed to take a truck or trailer involved in a collision and make it road ready and safe for service. The flowchart will consider safety, cost and equipment utilization, and identify areas for future Task Force development.

### **Frame Correction**

*Chairman: Justin Worden, Nussbaum Transportation Services, (309) 319-9262*

This Task Force will develop guidelines and practices for fleets and collision repair operations to return damage frames to proper specifications in order for the vehicle to function safely.

## **S.18 – Automated Vehicles**

### **Platooning**

*Chairman: Richard Bishop, Richard Bishop Consulting, (443) 695-3717*

This Task Force is exploring the need for recommended practices and developing a position paper on platooning truck technologies.

### **Automated Vehicles Industry Update**

*Chairman: Richard Bishop, Richard Bishop Consulting, (443) 695-3717*

This Task Force will present a series of industry updates regarding advancements in automated driving technologies for commercial vehicles as a means of identifying priorities for potential RP development and general information reports.

### **Automated Driving System Selection Process**

*Chairman: Joe Richley, Kenan Advantage Group, (330) 402-4069*

This Task Force is developing a recommended practice for the selection of automated driving systems (ADS).

### **Automated Truck Inspection and Enforcement**

*Chairman: Daniel Goff, Kodiak Robotics, Inc., (646) 515-3933*

This Task Force will develop guidelines for maintenance and safety inspections for automated medium- and heavy-duty commercial trucks including compliance with North American Standard Out-Of-Service criteria.

## **ADAS Selection and Specification**

*Chairman: Wolfgang Hahn, ZF, (765) 429-1770*

This Task Force will develop guidelines to assist fleets in selecting and specifying Advanced Driver Assistance Systems (ADAS) for various operational and vocational applications.

## **Technician & Maintenance Shop Requirements for Automated Vehicles**

*Chairman: Joe Richley, Kenan Advantage Group, (330) 402-4069*

This Task Force is developing technician and maintenance shop requirements for automated vehicles.

## **Trailer Spec'ing for Automated Vehicles**

*Chairman: Chairman: Paul Sniegocki, Clarience Technologies, (716) 661-1122*

This Task Force is developing guidelines for the specification of trailers in conjunction with automated vehicles.

## **Technician & Educator Committee**

### **Technician Skills Competition**

*Chairman: Randy Patterson, Bridgestone Comm. Solutions, (601) 209-1946*

This Task Force is developing procedures for implementing a national technician and student skills contest under the auspices of TMC.

### **Future Technician Scholarships**

*Chairman: Erin Brennan, Goodheart-Wilcox, 518) 852-3721*

This Task Force is examining means of establishing technician scholarship programs.

### **Fostering State Trucking Association Competitions**

*Chairman: Bonne Karim, Retired Silver Spark Plug, (405) 641-5241*

This Task Force is examining means of establishing state trucking association competitions for technician excellence that participate in TMC SuperTech.

### **Educator Involvement**

*Chairman: George Arrants, ASE Education Foundation, (281) 850-1676*

This Task Force will develop recommendations for increasing educator involvement in ATA's Technology & Maintenance Council.

### **Curriculum Development**

*Chairman: Jack Werner, Western Technical College, (915) 539-1590*

This Task Force will advise the industry and trade schools on the suitability of existing training programs for technicians for fleet and service provider shops.

### **NATMI Curriculum Advisory**

*Chairman: Robert Braswell, TMC, (703) 838-1776*

This Task Force will develop recommendations and materials for the curriculum of the North American Transportation Management Institute's (NATMI) Certified Director/Supervisor of Maintenance programs.

### **Progression from Technician to Instructor**

*Chairman: George Arrants, ASE Education Foundation, (281) 850-1676*

This Task Force will develop recommendations for progressing technicians to instructors for technician school programs.

### **Electrified Vehicle Training for Technicians**

*Chairman: Dan Salabsky, PITT OHIO, (412) 232-3015*

This Task Force will develop guidelines for the training of technicians to support electric commercial vehicle fleet maintenance operations, and for training requirements for electric vehicles in technician school curriculum programs.

## **Future Truck Committee**

### **Future Electrical/Electronic Systems**

*Chairman: Al Lesesky, Vehicle Enhancement Systems, (440) 241-3598*

This Task Force keeps abreast of the latest in heavy-duty electrical systems and explores new and emerging electrical/electronic system technologies. The Task Force then makes these new technologies known to TMC members and provides information on benefits and possible problems and solutions.

### **Future Tire Durability & Reliability**

*Chairman: Dan Shy, The Goodyear Tire and Rubber Co., (330) 283-3817*

This Task Force will attempt to discover causes and solutions to problems that limit tire durability and reliability in order to reduce tire operating costs. All causes of tire failures, including operation hazards, maintenance problems, manufacturing defects, retread & repair errors, will be addressed.

### **Future Cab and Driver Interface**

*Chairman: John Adami, NW Heavy Duty, (425) 633-4309*

This Task Force keeps abreast of the latest issues and information affecting the tractor and the driver. At present it is dealing with driver interface issues.

### **Future Trailer Productivity**

*Chairman: Chris Lee, Great Dane, (912) 644-2250*

The Future Trailer Task Force keeps TMC members abreast of the latest in trailer technology, including aerodynamics, and addresses feasibility of new trailer technologies.

### **Future Chassis and Brake Systems**

*Chairman: Eric Bengel, Walmart Transportation, (479) 277-9855*

The purpose of this Task Force is to develop position papers and information reports that will challenge industry to implement changes in practices and performance as it relates to chassis and brake systems.

### **Virtual/Augmented Training**

*Chairman: Matt Johnston, Design Interactive, (703) 578-1544*

This Task Force will explore the application of virtual/augmented training simulation software to commercial vehicle maintenance.

### **Future Integrated Vehicle Health Management**

*Chairman: Wally Stegall, The Morey Corp., (630) 842-0489*

This Task Force will explore how the information from health ready components can be shared and integrated into systems for prognostic maintenance as well as for demonstrating regulatory compliance for advanced technology vehicles.

### **Energy Conservation and Sustainability Update (S.11/FT)**

*Chairman: Taki Darakos, PITT OHIO, (412) 944-4961*

This Task Force will develop position papers that will challenge the industry to implement change in practices and performance as it relates to energy conservation.



# TMC 2024

## ANNUAL MEETING & Transportation Technology Exhibition

*Save the Date!*

### FUTURE TMC MEETINGS

#### TMC's 2024 Fall Meeting & National Technician Skills Competitions

September 15-19, 2024  
Raleigh Convention Center  
Raleigh, N.C.

#### TMC's 2025 Annual Meeting & Transportation Technology Exhibition

March 10-13, 2025  
Music City Center  
Nashville, Tenn.

ACT 1 is a premier sponsor of TMC's  
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