

# Welcome

Bob Kreeb



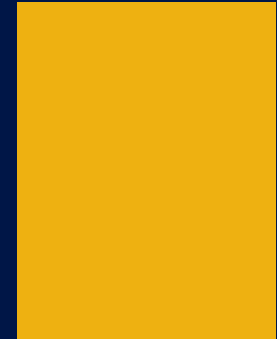
U.S. Department of Transportation  
Federal Motor Carrier Safety Administration

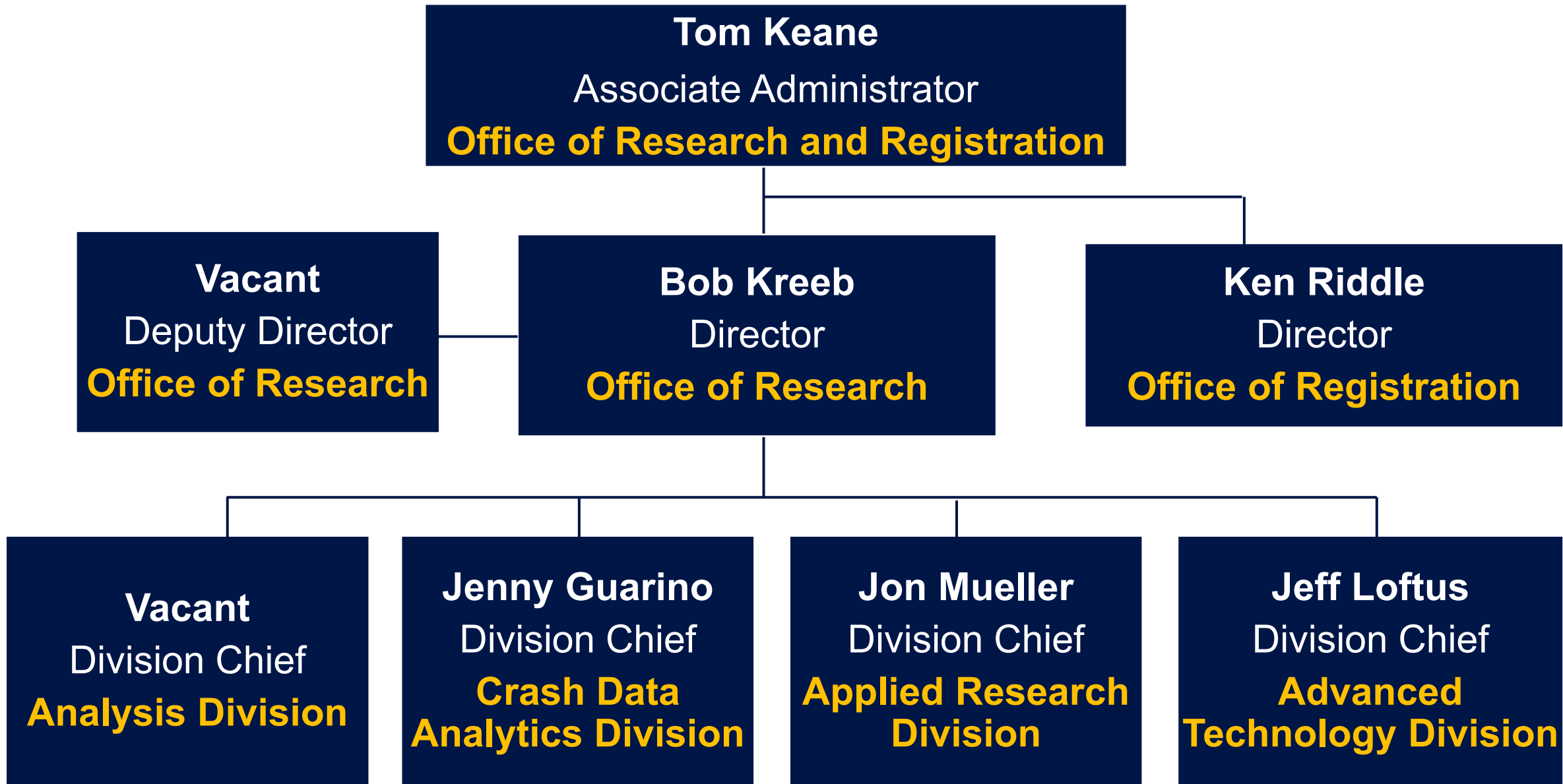
Federal Motor Carrier Safety Administration

# 2024

## SAFETY RESEARCH FORUM

VIRTUAL EVENT





# Key Tenants of our Research

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- A modest budget of about \$20M per year
- Stakeholder input drivers FMCSA's Research Portfolio
  - Motor Carriers (ATA, OOIDA)
  - Our State partners (Commercial Vehicle Safety Alliance, CVSA)
  - Safety Advocacy Organizations
  - Other USDOT and Government Agencies
  - Vehicle OEMs, suppliers, and technology developers
  - Academia
  - General Public
- We like to collaborate with our stakeholders on projects.
- And we seek the best and brightest to help us with our research
  - [FMCSA Research Support IDIQ Re compete Information](#)

# Anticipated Future Research Areas (1 of 4)

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- **Advanced Driver Assistance Systems (ADAS)**
  - Field Studies: driver acceptance; unintended consequences; maintenance
  - Effectiveness Evaluations: real world; modeling & simulation; test track
- **Automated Driving Systems (ADS)**
  - Operational Safety:
    - Maintenance; dispatch processes; remote monitoring and communications
    - Safe driving performance evaluations and metrics
  - Interactions with law enforcement and other public officials and vehicles
    - Recognition and pull-over procedures; information exchange
  - Compliance with FMCSRs; Inspections; Hazard Warning Devices

# Anticipated Research Areas (2 of 4)

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- **Human Factors**

- Fatigue
- Distraction
- Driver monitoring systems

- **Impairment**

- Alcohol
- Other drugs

- **Driver Qualifications**

- Medical Certification
- CDL Knowledge, Skills, Training

# Anticipated Research Areas (3 of 4)

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- **Trailer Safety:** “smart-trailer systems”; tractor-trailer communications
- **Equity and Diversity Issues:** inspection and enforcement actions; harassment; safety of drivers; carrier best practices
- **Data Mining**
  - Crash, enforcement actions, and other safety data analyses to identify safety opportunities, challenges and research efforts
  - Industry collaboration
- **Enforcement Methods & Tools**
  - Advanced screening technologies
  - Vehicle-to-roadside communications
- **Cybersecurity**
  - Aftermarket and telematics devices
  - Communications with roadside entities

# Anticipated Research Areas (4 of 4)

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And of course, in cooperation with NHTSA, continued research into other critical safety systems:

- Brakes
- Tires
- Steering
- Lighting
- Mirrors

# Agenda for Wednesday

Topic/Project	Presenter	Start Time
<b>INTRODUCTION</b>		
Welcome	Bob Kreeb, Director, Office of Research	1:00 pm
FMCSA Leadership Perspective	Brian Stansbury, Chief Counsel	1:18 pm
Opening Remarks	Tom Keane, Associate Administrator, Office of Research and Registration	1:22 pm
<b>DATA, ANALYSIS &amp; REGISTRATION</b>		
Crash Data Analytics Division	Jenny Guarino, Division Chief	1:30 pm
Analysis Division	Olu Ajayi, Statistician	1:35 pm
Motor Carrier Industry Stats Overview	Olu Ajayi, Statistician	1:40 pm
Crash Data Overview	Jessica Powell, Statistician	1:55 pm
State Safety Data Quality Update	Scott Valentine, Transportation Specialist	2:10 pm
<i>Questions</i>		2:25 pm
<i>Break</i>		2:40 pm
CCFP Update	Dan Meyer, Senior Transportation Specialist	3:00 pm
VRU Countermeasures	Jessica Powell, Statistician	3:15 pm
Drug Usage Rates Over Time	Dan Burrill, Statistician	3:25 pm
FMCSA Registration System Modernization and Fraud Prevention	Ken Riddle, Director, Office of Registration	3:35 pm
<i>Questions</i>		3:45 pm



# Agenda for Thursday

Topic/Project	Presenter	Start Time
<b>INTRODUCTION</b>		
Priorities for Applied Research and Advanced Technology Divisions	Tom Keane, Associate Administrator, Office of Research and Registration	1:00 pm
Regulatory Update	Wendy Liberante, Director, Office of Policy, Strategic Planning & Regulations	1:10 pm
NTSB Update on Current Crash Investigations	Mike Fox, Senior Highway Accident Investigator, National Transportation Safety Board	1:20 pm
<b>APPLIED RESEARCH</b>		
Applied Research Division	Jon Mueller, Division Chief	1:40 pm
Truck Parking Research Overview	Nicole Katsikides, Senior Transportation Specialist	1:50 pm
Introduction to International Research	Julie Lane, Senior Transportation Specialist	2:00 pm
Human Factors in ADS & ADAS Equipped CMVs	Terri Hallquist, Mathematical Statistician	2:05 pm
CMV Tire and Vehicle Stability Research	Lance Decker, General Engineer	2:15 pm
New Entrant Training and Testing	Kelly Stowe, General Engineer	2:25 pm
<i>Questions</i>		2:35 pm
<i>Break</i>		2:45 pm
<b>ADVANCED TECHNOLOGY</b>		
Advanced Technology Division	Jeff Loftus, Division Chief	3:00 pm
Electronic In-Motion Truck Inspections (Level VIII Update)	Tom Kelly, Transportation Specialist	3:10 pm
Safety Impacts of States' Roadside Technology Deployments	Leroy Taylor, Transportation Specialist	3:20 pm
Empirical ADAS Truck Crash Analyses Using Onboard Safety Monitoring Systems	Brian Routhier, Transportation Specialist	3:30 pm
ADS Safety Metrics Research	Mike Lukuc, General Engineer	3:40 pm
<i>Questions</i>		3:50 pm

# Some Housekeeping Items...

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- Presentations will be posted online within a few weeks.
- Complete the Survey at the end of the event.
- If you have questions about any presentations today, please send an email to [SRForum@dot.gov](mailto:SRForum@dot.gov), and we will do our best to answer your question during the event.
- If we don't answer your question during the event, we will still try to answer it after the event. We hope to put these answers online in a few weeks.