



**FEBRUARY 22-24, 2022**

# **OPEN ROADS**

**AUTONOMOUS & ELECTRIC VEHICLES ON  
AMERICA'S HIGHWAYS**



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# OPEN ROADS:

Autonomous & Electric Vehicles on America's Highways

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## Thank you for joining us for ACT Research's 66th Seminar!

How are you attending OUTLOOK Seminar 66?  
Seminar 66 is coming to you through livestream and  
in-person!

Please use the information below if you will be accessing  
the event virtually.

[Click here](#) to access event presentations.

**This event has ended, but  
registration to our next  
Seminar is open!**

**[Register here.](#)**





# OPEN ROADS:

Autonomous & Electric Vehicles on America's Highways

**Attending in-person? Join us for night one of networking!**

**Discussion Reception @ The Commons, 6pm ET**

**FEBRUARY 22, 2022**



It's a long-standing ACT seminar staple to host our guests by offering dinner and discussion the first evening of the event. We're happy to host our guests once again at Seminar 66! A Discussion Reception will be hosted at The Commons in downtown Columbus. With an offering of

small plates and drinks along with lively discussion for the benefit of our attendees. The reception will start at 6 pm ET and will be a wonderful kick-off to ACT's first live seminar since February 2020.



**DATE: February 22, 2022**

**LOCATION: The Commons, 300 Washington St., Columbus, IN 47201**

**TIME: 6 pm ET**

**Map: [Important Addresses](#)**

# OPEN ROADS:

Autonomous & Electric Vehicles on  
America's Highways

The Commons, Doors Open at 7:00am ET



FEBRUARY  
23, 2022



SEMINAR  
66

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## DAY 1: WEDNESDAY, FEBRUARY 23RD

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7:45 am - Welcome & Announcements

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8:00 am - U.S. Economic Panel with Bryan Bezold of Ford

For two years Covid-19 has forced a break with the past for the economy and for key drivers of transportation markets. ACT Research's Seminar 66 will kick off with an Economic Panel that will try to weave together a coherent look-ahead view from the scattered threads and trends that litter the current landscape. Inflation, consumer spending trends, monetary and fiscal policy, business investment, trade, and supply chain issues, and international business conditions will all be fair game for our panel. Seminar attendees will take away a more robust framework to view the opportunities and risks ahead over the next four to eight quarters, plus have an opportunity to pose their own thought-provoking questions to our panel.

BRYAN BEZOLD, Sr. North America Economist

PAUL TRAUB, Chief Economist

JIM MEIL, Principal, Industry Analysis

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9:15 am - Break

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9:30 am - Fireside Chat with Bill Charmley of the EPA

In this presentation, we will discuss the key emissions regulations coming from the EPA. We'll chat about how the EPA's Cleaner Trucks Initiative, its low-NOx rulemaking, compares and contrasts with California's rules, and we'll discuss the technological changes that are expected at the national level in 2027. The session will cover the advances in selective catalytic reduction and cylinder deactivation systems, which will be deployed to achieve additional emissions reduction in 2027, and we'll delve into the GHG side of the regulation set with an eye toward how the EPA is progressing on the development of zero-emissions vehicle mandates as part of GHG-3.

BILL CHARMLEY, Director, Assessment & Standards Division

TIM DENOYER, Sr. Analyst & Vice President

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## DAY 1 CONTINUED: WEDNESDAY, FEBRUARY 23RD

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### 10:30 am - Medium-Duty Market Update w/ Blue Bird

We will hear a unique OEM perspective from the bus segment, which is largely believed to be one of the applications most well-suited to adoption of electrification. This session also will review the medium duty market's roller-coaster 2021 performance and take a look at where it is headed?

**ALBERT BURLEIGH**, Executive Director, EV Sales

**STEVE TAM**, Vice President

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### 11:15 am - OEM Perspective featuring Volvo

Electromobility is not an IF nor a WHEN, it's a NOW. Andy wants to get you charged up and take you on a ride as he shares insights into Volvo Trucks' electromobility journey. This session will focus on the importance of electrification and sustainability, showcase Volvo Trucks' product offerings, and the lessons learned. Most importantly the goal of this session is to reinforce to you Volvo Trucks' commitment and promise, "Accelerating the Shift towards a more sustainable future to Move the World We Want To Live In."

**ANDY BROWN**, Product Marketing Manager, Electromobility

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### 12:00 pm - Lunch provided by ACT Research

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### 1:00 pm - Market Perspective w/ Ryder's John Diez

In this session, we will hear first-hand, the real-world consideration vehicle buyers grapple with when considering the purchase of electric and advanced technology equipment.

**JOHN DIEZ**, EVP & CFO

**STEVE TAM**, Vice President

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## DAY 1 CONTINUED: WEDNESDAY, FEBRUARY 23RD

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1:45 pm - Next Electrification & Reefers w/ Thermo King

The path for Transport Refrigeration Units (TRU's) to go electric, are in parallel with the needs of the trucking industry. This is due to several reasons such as increasing emissions regulation and environmental stewardship. Zero-emission TRU's have profound implications as it relates to fleet operations, infrastructure needs, and buying cycles—affecting the transport refrigeration market beyond any prior industry shift. This session will dive into the complexities of transitioning to zero-emission TRU's as well as the benefits and implications to the industry.

**PAUL KROES, Project Leader - LTL Containers**

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2:25 pm - ACT's Electric Vehicle Forecast Update

ACT Research recently published a Global Commercial Electric Vehicle forecast that includes both BEV and FCEV, with a very comprehensive analysis covering North America, Europe, China, Japan, South Korea, India, and Brazil. Our forecast analysis is based on a detailed Total Cost of Ownership (TCO) model that profiled 85 unique commercial vehicle applications in Medium-duty and Heavy-duty segments. We will share some of our key findings, in what should prove to be a very informative session.

**ANN RUNDLE, VP of Electrification & Autonomy**

**LYDIA VIETH, Research Analyst, Electrification & Autonomy**

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3:00 pm - Break

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3:15 pm - U.S. Used Truck Market Review

Market dynamics blew the lid off used truck prices in 2021. You will learn the details behind the headline and hear what the future holds for the secondary market in this session.

**STEVE TAM, Vice President**

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## DAY 1 CONTINUED: WEDNESDAY, FEBRUARY 23RD

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### 3:40 pm - Freight Forecast & Transportation Overview

Freight markets continue to be buffeted by extraordinary pandemic-related challenges. Demand remains unequivocally strong, with long containership backlogs at more and more North American ports, as retailers work to restock shelves. Freight networks remain under strain, from backed-up ports to capacity-constrained rails, and Omicron has driven another wave of absenteeism across the economy in early-2022. While this is likely impacting freight trends, we'll discuss the very dynamic environment we expect in the months to come. Supply constraints continue to be a crucial theme, and just as progress was starting to build momentum, Omicron has thrown truck driver hiring and equipment manufacturing off track, further extending the tight market dynamics which continue to support higher freight rates and carrier margins. But how long will it last?

**TIM DENOYER, Vice President & Sr. Analyst**

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### 4:15 pm - Class 8 & Trailers Review & Forecast

As has been the case the past 12-plus months, supply constraints continue to impact the industry's ability to bring Class 8 and trailer production to levels consistent with demand. Supply chain fundamentals, especially relating to the speed at which semiconductor capacity grows, remain opaque. In addition to speculating on recovery timing, we will delve into the implications of current supply-demand friction in the building of pent-up demand in this period of unparalleled freight volumes and carrier profitability. We will look to two upcoming emissions mandates from CARB and the EPA that promise to be very expensive for diesel-powered vehicles.

**KENNY VIETH, President & Sr. Analyst**

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### 5:00 pm - Closing Thoughts w/ ACT Staff

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# OPEN ROADS:

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**Attending in-person? Join us for night 2 networking!**

**FEBRUARY 23, 2022**

**6:00 - 9:00 pm - ACT's Networking Dinner**

ACT's dinner is always a highlight of the seminar. Join us this evening for savory food, beer, spirits, and lots of opportunities to connect, network, and enjoy your fellow seminar attendees. Ken Vieth began this tradition at his farm more than 30 years ago. Through the years, we've enjoyed Hoosier Hospitality at the "Farm," at Kenny Vieth's "Barn" and at ACT's "Garage" and "Lodge". This seminar, dinner is being served at Harrison Lake Country Club, a beautiful location on the west side of Columbus that will allow for Hoosier Hospitality, delectable food, and a laid-back atmosphere.

After a long day of learning, join us for some food and fellowship at the ACT Networking Dinner to relax and reconnect.

**Location: Harrison Lake Country Club**  
**588 S. Country Club Rd.**  
**Columbus, IN 47201**

**No transportation will be provided for the lodge dinner.**






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## DAY 2: THURSDAY, FEBRUARY 24TH

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7:45 am - Welcome & Announcements

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### 8:00 am - Trucker & Transportation Panel

Myriad supply-side constraints during a period of unprecedented demand for trucking services created considerable friction in 2021: Too much freight and too few drivers boosting freight rates and carrier profitability to record levels. Freight backlogs are ongoing. Capacity-constrained new vehicle demand has pushed used truck prices to record levels as very high-priced swing capacity enters the market. There are new technologies on the horizon and shippers talking about Scientifically Based Targets and ESG...So. Many. Questions.

MATT HARDING, SVP Data Science at Transplace

ANDREW MASSARO, Procurement Manager at UPS

TIM DENOYER, VP & Senior Analyst at ACT Research

### 10:00 am - Autonomous Ecosystem Panel

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Autonomous vehicle technologies are continuing to advance in development to support the ultimate goal of Level 4 “driver out” autonomy for a commercial vehicle. Trial runs of hub-to-hub type of duty cycle have recently been successfully completed in a fully “driver out” condition, with no safety driver in the cab. The future is closer than it may seem! Our panel of autonomous vehicle experts will help to educate and inform us on what the future holds for the adoption of connected and autonomous trucks.

MICHAEL WISHART, Business Development Manager at Tu Simple

WILEY DECK, Vice President of Government Affairs and Public Policy at Plus

MONIKA DARWISH, Senior Corporate Counsel at Kodiak Robotics

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### 11:45 am - Closing Thoughts with ACT Staff

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# OPEN ROADS:

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**FEBRUARY 24, 2022**

**Attending in-person? Join us for the final day lunch!**

## 12:00 pm - Lunch @ Zaharakos Ice Cream Parlor

Don't rush off! ACT will be hosting our guests for lunch at Zaharakos Ice Cream Parlor on the event's final day. Join other guests and the team of ACT Research for a casual lunch at this historic, old-fashioned ice cream parlor, complete with soda fountains, 100-year old organs, and a candy museum.

**Zaharakos Ice Cream Parlor:**  
**329 Washington St.**  
**Columbus, IN 47201**  
**(Across the street from The Commons)**





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## WHAT'S HAPPENING AT ACT?

### CHARGING FORWARD

2022 - 2040 BEV & FCEV FORECAST & ANALYSIS

Classes 4-8 Vehicles  
14 Market Sub-Segments  
23 Application Types

275+ Page Written Analysis Covering:  
Infrastructure  
Battery Technology  
Fuel Cell Technology  
Hydrogen Technology  
Regulations  
and More...

Comprehensive Plug & Play TCO Model  
Base, Slow, and Fast Scenarios



### POWER UP

GLOBAL COMMERCIAL EV MARKETS TO 2040

HOW BATTERY AND FUEL CELL PROPULSION WILL DECARBONIZE HEAVY TRANSPORTS.

Utilizing the foundation of our North American results from CHARGING FORWARD to deliver a global BEV and FCEV adoption forecast.

This report reviews 18 vehicle applications across 4 regions and more than 20 countries and explores the dynamics of electrification for the global commercial vehicle market including:

- Economic & Market Overview with Long-Term Projections
- Propulsion System Technology
- Battery Power
- Fuel Cell Power
- Electrification: Infrastructure and Electric Utilities
- Fuel Cell Infrastructure
- Government, Regulations, and Subsidies
- Total Cost of Ownership Analysis of 18 Vehicle Application



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## WHAT'S HAPPENING AT ACT?



### ANNOUNCING

#### COMMERCIAL AUTONOMOUS VEHICLE STUDY

THE KICK-OFF TO ACT'S MULTI-CLIENT COMMERCIAL VEHICLE AUTONOMOUS VEHICLE STUDY TO FORECAST AUTONOMOUS ADOPTION THRU ECONOMICS BASED ANALYSIS.

**WHAT:** AUTONOMOUS TECHNOLOGY STUDY

**SIGN-ON PERIOD:** FEBRUARY - APRIL 2022

**RESEARCH PERIOD:** Q1-Q3 2022

**DELIVERABLES EXPECTED COMPLETED:** OCTOBER 2022

CONTACT IAN MCGRIFF, ANN RUNDLE, OR LYDIA VIETH WITH QUESTIONS

SAVE THE DATE:  
**OUTLOOK  
WEBINAR  
SERIES**

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4/12


ACT   
Research



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## SPEAKERS & STAFF

	<p><b>Bryan Bezold</b> Sr. North America Economist Ford Motor Company</p> <p>Bryan Bezold is the Senior North America Economist at Ford Motor Company. He is responsible for forecasts of auto industry volume, as well as GDP, inflation, foreign exchange, and interest rates in Ford's markets in North America. Bryan joined Ford in August of 2011, initially serving as the Senior Europe Economist, where he was responsible for forecasting economic and auto industry conditions during the European sovereign debt crisis.</p> <p>Bryan has an M.A. in Economics from the Andrew Young School of Policy Studies at Georgia State University (1997) and a B.S. in Mechanical Engineering from the Georgia Institute of Technology (1993). In 2021, Bryan completed his Ph.D. at Wayne State University, where his dissertation topic was "Central Banking After the Financial Crisis". He is a member of the American Economic Association and National Association for Business Economics and is a past President of the St. Louis Gateway Chapter of the National Association for Business Economics.</p>
	<p><b>Andy Brown</b> Product Marketing Manager, Electromobility Volvo</p> <p>Andy Brown is a captain of uncharted waters; a tech native, Brown has a decade of emerging technology experience with leading manufacturers in the transportation, construction, and mining industries. He started his career with Caterpillar Inc., developing and launching award-winning and industry-defining technologies to market, most notably remote-control and autonomous heavy equipment, fleet telematics, and mobile applications. Now with Volvo Trucks North America, Brown is focused on #Accelerating the Shift toward electromobility.</p>
	<p><b>Albert Burleigh</b> Executive Director of Electric Vehicle Sales Blue Bird Corporation</p> <p>Albert Burleigh is the Executive Director of Electric Vehicle Sales for Blue Bird Corporation, the leading electric school bus manufacturer. He oversees all aspects of electric bus sales and business development for North America. He joined Blue Bird in 2007 and has held various positions within the company, including Regional Sales Manager for the Western U.S., Director of Dealer Development for North America, and Regional Executive Director for Western U.S. and Canada. Before joining Blue Bird, Burleigh spent 15 years with Ford Motor Company, where he held management positions in sales, marketing, customer service, and dealer operations. He holds an MBA from McCombs School of Business at the University of Texas at Austin and a Bachelor of Marketing from Louisiana State University.</p>



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## SPEAKERS & STAFF



**Bill Charmely**  
Director, Assessment & Standards Division  
EPA

Bill Charmley has worked for the Environmental Protection Agency (EPA) since 1992. During the past 30 years, he has worked on a variety of fuel, engine, and vehicle emission control programs, including 2004, 2007, and 2010 highway heavy-duty diesel standards; EPA's off-highway farm and construction engine diesel standards program; the Tier 3 light-duty vehicle and gasoline fuel sulfur control standards; greenhouse gas emission standards for light-duty vehicles, heavy-duty engines and vehicles, ocean-going vessels and aircraft; and the renewable fuel standards program.

Mr. Charmley is currently the Director for the Assessment and Standards Division, where he is responsible for developing vehicle, engine, and fuel environmental air quality regulatory standards for all transportation sources in the United States, as well as the development and ongoing improvements to EPA's official air pollution emissions inventory forecasting model for highway and nonroad transportation sources. Before his current position, Mr. Charmley was the Deputy Director for Assessment and Standards Division from 2005 – to 2012. Mr. Charmley was EPA's Director for the On-road Heavy-duty Center in Ann Arbor, Michigan from 2003 - 2005, and 2005-2007.

Mr. Charmley has a Bachelor of Science degree in Physics from Alma College, a Bachelor's in Engineering Physics, and a Master of Science in Atmospheric Science from the University of Michigan in Ann Arbor. Bill has been a member of the Society of Automotive Engineers for more than 30 years. He is married, has two sons, and lives in Beverly Hills, Michigan.



**Darian Collier**  
Data Management Specialist  
ACT Research Co.

Darian joined ACT Research in February 2021 as a Data Management Specialist. She spent 7 years at a tier 1 automotive lighting manufacturer as a Quality Bill of Material Controller, specializing in data management and enterprise resource planning.

In her role as Data Management Specialist, she will maintain ACT's commercial vehicle databases and assist in the development of new analytics, among other things.



She received her A.S. from Ivy Tech in Database Design and Management and is currently pursuing a B.S. in Informatics from Indiana University Southeast. In her free time, she enjoys gardening, painting, and spending time with her husband and pets.



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## SPEAKERS & STAFF

	<p><b>Monika Darwish</b> Senior Corporate Counsel Kodiak Robotics</p> <p>N/A</p>
	<p><b>Margie Dasovich</b> Research Manager and Analyst ACT Research Co.</p> <p>Margie Dasovich joined ACT Research in November 2018, after more than 24 years with Cummins Inc. and most recently with Cosco Home &amp; Office Products.</p> <p>In her capacity as Research Manager and Analyst, Margie brings her vast engine industry knowledge, database experience, and customer-focused work practices to ACT's subscribers. Her initial tasks are centered on ACT's database development, including those related to the used truck market and the US economy, but it is anticipated that Margie's responsibilities will expand to the management of other new and existing databases, as well.</p> <p>During her two-decade-plus career at Cummins, Margie's experience ranged from Engine Business Marketing to New &amp; ReCon Parts and Service, working with distributors and dealers. She also has several years of experience with project management. After leaving Cummins, Margie spent three years as Product Development Manager for Cosco Home &amp; Office Products.</p> <p>Margie holds a B.S. in Marketing from Indiana University.</p> <p>Margie is a native of Columbus, IN. She is married with three children. When not working, Margie enjoys spending time with family and friends, supporting local youth activities, working in the yard, and volunteering in the community.</p>





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## SPEAKERS & STAFF



**Wiley Deck**  
Vice President of Government Affairs and Public Policy  
Plus

Vice President of Government Affairs and Public Policy at Plus, Deck is leading the company's Government Affairs and Public Policy strategy and outreach, including working with regulators and other key stakeholders to ensure the safe deployment of autonomous trucks, starting with supervised autonomous trucks. Deck most recently served as the Deputy Administrator of the Federal Motor Carrier Safety Administration in the U.S. Department of Transportation, where he managed a \$600 million budget and was responsible for regulating 530,000 trucking companies, 12,000 bus and motor coach operators and nearly 4 million interstate CDL holders.

Prior to that role, he served as Senior Policy Advisor to the Secretary of Transportation and Director of Governmental Affairs at the Federal Motor Carrier Safety Administration. Prior to joining the U.S. Department of Transportation, Deck served in the U.S. House of Representatives in various roles for more than two decades, including Director of Oversight and Investigations for the Committee on Transportation and Infrastructure and Chief of Staff for a senior Member of Congress. He received a B.A. in International Affairs and American Government from the University of Central Florida.



**Tim Denoyer**  
Vice President and Senior Analyst  
ACT Research Co.

Tim joined ACT in August 2017, after spending fifteen years in equity research focused primarily on the transportation, machinery and automotive industries. In addition to his roles analyzing commercial vehicle demand and alternative powertrain development (i.e. electrification), Tim is the lead analyst in ACT's transportation research effort and the primary author of the *ACT Freight Forecast, U.S. Rate and Volume Outlook*.

This report provides supply chain professionals with better visibility on the future of pricing and volume in trucking, the core of the \$800 billion U.S. freight transportation industry, including truckload, less-than-truckload and intermodal/drayage. This service leverages ACT's expertise in the supply side economics of transportation and draws upon Tim's background as an investment analyst.




Tim was a co-founder of Wolfe Research, one of the leading equity research firms in the investment industry. While with Wolfe, Tim was recognized in Institutional Investor's survey of investors as a Rising Star analyst in both the machinery and auto sectors. His investment experience also includes responsibility for covering the industrial sector of the equity markets, most prominently with leading hedge fund Balyasny Asset Management.



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## SPEAKERS & STAFF

	<p><b>John Diez</b> Executive Vice President &amp; Chief Financial Officer Ryder Systems Inc.</p> <p>John Diez is Executive Vice President and CFO for Ryder System, Inc., a leading commercial fleet management, dedicated transportation, and supply chain solutions company. He is responsible for Ryder's financial management functions, including finance and accounting, treasury, tax, audit, corporate strategy, and investor relations, as well as being a member of Ryder's executive leadership team. Previous roles at the company include Diez's service as President of Ryder's Fleet Management Solutions business unit, the company's largest business segment, leading all areas of global fleet operations, President of Ryder's Dedicated Transportation Solutions business unit, Senior Vice President of DTS, SVP of asset management, SVP of global field finance, and VP/CFO for the FMS business segment.</p> <p>Mr. Diez started his career in the audit practice of KPMG LLP prior to joining Ryder. He is a member of the Board of Directors for Trinity Industries, Inc. (NYSE: TRN). A licensed CPA and a member of the American Institute of CPAs, he holds Bachelor of Science and Master of Science in Accounting degrees from Florida International University.</p>
	<p><b>Matthew Harding</b> SVP, Data Science Transplace</p> <p>SVP, Data Science at Transplace, Matthew Harding has more than 20 years of supply chain and transportation industry experience. He has held leadership roles supporting consulting, technology, data analytics, and 3PL services. Before Transplace, Harding led a market intelligence service for shippers and 3PLs, supporting well over 200 clients globally and processing more than \$70B into actionable market intelligence for its clients across all major trucking modes.</p> <p>He is also a frequent author and industry speaker, providing commentary on market conditions and their impact on the industry. Harding's education includes a Bachelor of Industrial and Systems Engineering with honors distinction from Georgia Tech, and he was a Supply Chain Fellowship recipient from MIT, where he earned his Master's degree from the Supply Chain Management Master's Program.</p>
	<p><b>Colleen Kiefer</b> Marketing Manager ACT Research Co.</p> <p>Colleen joined ACT Research as an intern in May 2019 and officially joined our team as a business service and marketing assistant in August 2019. Colleen's current role is as ACT's Marketing Manager. Colleen creates and coordinates ACT's social media platforms, assists with web page development, is an integral part of the semi-annual seminar preparations, develops and implements marketing campaigns. She continues to take roles in sales and administrative support for ACT's current and potential subscribers.</p> <p>She graduated from Indiana University of Columbus in May 2020, with a Bachelor of Science in Business Management and Marketing. Prior to joining the ACT team, Colleen spent five years working retail customer service and sales. In high school, Colleen was a member of The Bartholomew Youth Leadership Program and the National Art Honor Society, where she acquired leadership and teamwork skills. She is currently using her acquired skills to better assist ACT's subscribers and help promote the organization's many reports and services.</p>



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## SPEAKERS & STAFF




	<p><b>Paul Kroes</b> Project Leader for LTL Refrigerated Containers Thermo King Americas</p> <p>Paul Kroes is the project leader for LTL Refrigerated Containers for Thermo King Americas. In this role, he drives growth in zero emission refrigerated solutions for applications such as LTL freight, pharmaceuticals, grocery distribution, and home delivery. Kroes has been with Thermo King since 2007. As an engineer for the company for five years, he designed Thermo King vehicle powered transport refrigeration and auxiliary power units (APUs). He has held escalating roles in product management, where he has been a key contributor to developing ThermoLite®, a product line of solar and power management solutions, and most recently was the Strategic Insights leader, where he drove insights regarding customer and market performance, as well as technological trends and implications for the company. Kroes also has multiple patents ranging from wireless temperature sensing to solar power solutions. Prior to joining Thermo King, Kroes began his career in 2005 with Caterpillar as an applications engineer. He has a Bachelor of Science degree in mechanical engineering from Purdue University and a Master of Business Administration degree from the University of Minnesota.</p>
	<p><b>Drew Laing</b> Senior Advisor Alternative Fuels ACT Research Co.</p> <p>Drew is an alternative fuels specialist for the transportation industry. He joined ACT Research as an advisor in 2015. Drew's experience includes a stint at Transfuels LLC (Blu) as the Director of Sales and Marketing. Prior to joining Transfuels, Drew worked at a Fortune 100 private company in a business development role. He managed some wholly-owned subsidiary companies specializing in remarketing and reselling commercial vehicles. The business quickly grew from a \$2 million operation to over \$20 million in a few short years. Drew expanded the operations and opened two additional subsidiaries including a leasing company. In 2012, he was recruited to work in the natural gas industry, helping promote the adoption of various technologies surrounding natural gas in heavy-duty trucking applications.</p> <p>Drew's educational background includes a degree in Accounting from Utah State University, where he graduated Summa Cum Laude. He also holds an MBA with an emphasis in strategy and logistics. He and his wife are the parents of four children.</p>
	<p><b>Frank Maly</b> Director, CV Transportation Analysis &amp; Research ACT Research Co.</p> <p>After receiving his B.S. from Bowling Green State University, Frank spent twelve years at a Fortune 150 company, where his responsibilities included the North American Industry Forecast as well as other market analysis and market information responsibilities. While there, he also obtained an MBA from Western Michigan University.</p> <p>Prior to joining ACT in 2011, Frank has been involved in the commercial vehicle industry for 18 years. He's held analytical and product management roles at a major trailer OEM, a component supplier, as well as a supplier of commercial vehicle analysis and marketing solutions. As a past ACT customer, Frank also contributes a customer-oriented perspective to the organization.</p>



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	<p><b>Andrew Massaro</b> Procurement Manager UPS</p> <p>Andrew Massaro has been at UPS for 5 years and has served multiple procurement roles, including contract negotiation for indirect sourcing, advanced analytics for international final mile, and domestic ground transportation. He holds an undergraduate degree in supply chain management from Auburn University, where he started at UPS as an intern. His current role in ground transportation procurement is focused on three objectives: advanced analytics, supplier identification, and market intelligence. Proficient skills used day-to-day include SQL, Tableau for visualization, and occasionally python. Massaro has taken a recent interest in public speaking and enjoys traveling.</p>
	<p><b>Ian McGriff</b> Vice President of Marketing &amp; Business Development ACT Research Co.</p> <p>Ian's focus is to amplify the ACT brand and create consistency in messaging, imaging, and processing. His role includes the development and maintenance of ACT's website, graphic design, marketing communications, social media marketing, content development, and other marketing and communications functions.</p> <p>After graduating from Wabash College in 2006, Ian spent 8 years in the fitness industry as the head trainer of a gym. He then transitioned to a digital marketing agency, where he spent 4 years as the Director of Digital Marketing Sales.</p> <p>Ian is married and has two daughters who, fortunately, take after their mother.</p>
	<p><b>Jennifer McNealy</b> Director, CV Market Research &amp; Publications ACT Research Co.</p> <p>Jennifer joined ACT Research in September 2011 as Office Manager and was promoted to Research Analyst in December of 2012. In 2018, she became Senior Research Manager and Analyst.</p> <p>After receiving her B.A. from Hanover College in Communication and History, Jennifer began her career in the travel and tourism industry, where she worked in a variety of positions for 8 years ending as the Tourism Director for her hometown in Indiana. Additionally, she spent 13 years as a member of the local and regional media industry, where she worked in both print and radio formats.</p> <p>Getting an advanced degree was always a goal for her and in 2000, Jennifer earned her M.S.M. from Indiana Wesleyan University. She continues to enhance her knowledge and skills, most recently taking economics classes at the local community college, as well as other business, marketing, and communication-related training courses online.</p>



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## SPEAKERS & STAFF




	<p><b>Jim Meil</b> Principal, Industry Analysis ACT Research Co.</p> <p>Jim joined ACT in June 2014. He is well known in the commercial vehicle industry and the broader transportation community for his analytics, his insights, and imaginative, yet down-to-earth management presentations.</p> <p>Jim previously was Vice President and Chief Economist with Eaton, a position he held since 1996. He retired from Eaton after a 29-year career there, serving various roles in planning, treasury, and economics functions. Prior to joining Eaton, Jim had held consulting and management positions with Chase Econometrics and with Burroughs Corporation.</p> <p>Jim holds an MBA in finance and a BA (honors) in economics from the University of Chicago. He has served on the Board of Directors of the National Association for Business Economics and has won recognition from both the <i>Wall Street Journal</i> and <i>USA Today</i> for top economic outlook from their respective panels of 50 economics forecasters.</p>
	<p><b>Bob Perkins</b> Senior Global Business Consultant ACT Research Co.</p> <p>Robert (Bob) Perkins joined Jacobs Vehicle Systems (Jake Brake) and the HD Truck industry in 1985. While at Jacobs, Bob held roles of increasing responsibility in the marketing department and joined the executive staff in 1990. He retired as VP Marketing &amp; Business Development at the end of 2013 and joined ACT's staff as Senior Global Business Consultant.</p> <p>Much of his career at Jacobs was focused on geographic expansion, leading the efforts to gain new business in Europe, Japan, Korea and China. In parallel to his marketing and commercial responsibilities, Bob has held Board of Director roles at Jacobs Mexico, Jacobs VIE China (JV) and was President of Jacobs Japan. During Bob's tenure as head of marketing, Jacobs expanded from 4 domestic customers to 24 global customers. He was also part of the team that brought Lean principals to Jacobs and the U.S.</p> <p>Prior to joining Jacobs, Bob was Deputy Export Manager of Ronson Corporation responsible for sales of consumer products in 169 countries. He was also Assistant to the President of AIC Corporation responsible for Marketing, Finance and HR functions.</p> <p>Bob was on active duty in the Air Force as a Combat Loadmaster serving in Vietnam and other deployment areas. Completing 97 combat missions, Bob was awarded 9 medals for his service activity.</p> <p>Bob earned his B.S. in Finance from Quinnipiac University and an M.S. Administration from the Hartford Graduate Center (now Rensselaer University). Bob is married and has 2 children and 3 grandchildren.</p>



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	<p><b>Ann Rundle</b>  <b>Vice President, Electrification &amp; Autonomy</b>  <b>ACT Research Co.</b></p> <p>Ann Rundle's career has been focused in the transportation industries, since her early years as an engineer in the marine industry. Rundle transitioned to Strategic Planning and Business Development roles in Automotive and Commercial Vehicles after completing her MBA. Ann was with Eaton Corporation for 20-years, with senior leadership roles as Director of Business Development for the Automotive group, and Global Customer Sales Director for General Motors and FIAT group (including IVECO, CNH &amp; Ferrari). Rundle left Eaton to join a small R &amp; D start-up focused on advanced Li-ion battery technologies, and from there transitioned into independent consulting projects focused on developing growth strategies for new technologies, primarily in industrial and commercial vehicle markets. Most recently, Ann was with FIAT-Chrysler Automobiles (FCA) and headed up their global Strategy &amp; Planning for electrified vehicles, including hybrids, plug-in hybrids, battery electric, and fuel cell vehicles for both automotive and commercial vehicle applications.</p> <p>Rundle holds a BSE in Naval Architecture &amp; Marine Engineering from University of Michigan and an MBA from San Diego State University. Ann is a Director/Trustee of the Chicago Yacht Club Foundation and leads their After-school Education programs and the Grants &amp; Scholarships committee.</p>
	<p><b>Andrew Settle</b>  <b>Data Management Specialist</b>  <b>ACT Research Co.</b></p> <p>Andrew grew up in Indianapolis, Indiana, and attended the Kelley School of Business with a focus on economics, finance, and accounting at IUPUI. He seeks to combine data analytics, machine-assisted processing, and general comprehensive financial analysis to support ACT Research and the goals of supporting clients' data needs. When not tinkering with PCs and performing analysis, Andrew enjoys rock climbing extensively. His interests include big data, python, trend analysis, research, and seeking alpha.</p>
	<p><b>Debby Steinbarger</b>  <b>Office Manager</b>  <b>ACT Research Co.</b></p> <p>Debby joined ACT Research as Office Manager in December, 2012, bringing with her several years of experience in customer service, accounts payable, and scheduling.</p> <p>Prior to joining ACT, Debby was employed by the Bartholomew County School Corporation (BCSC) as the organization's sub-coordinator, where she hired and managed a substitute pool of 300-400 teachers for the group's 17 schools, as well as oversaw switchboard operations and supply purchasing for the corporation's business office. In addition, she was responsible for running the organization's monthly docket, processing more than \$3 million in transactions.</p> <p>Before spending nine years at BCSC, Debby spent eight years as a CNA, eight years as a stay-at-home mom, working part-time jobs around her two children's schedules, and five years with Irwin Union Bank as a teller and customer service representative. She also attended Ivy Tech and IUPUC in Columbus.</p> <p>Debby's two children are grown now, but she watches her two "grand puppies" daily.</p>



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	<p><b>Steve Tam</b> Vice President, Analyst ACT Research Co.</p> <p>As Vice President at ACT Research, Steve Tam is one of two principal commercial vehicle market analysts. Since being promoted to his current position in October 2008, he was appointed to the Board of Directors and became a Managing Member of ACT Research in September 2016.</p> <p>He also leads the used truck market efforts for ACT. Other responsibilities include project and database management; and collection, analysis, and reporting of specialty data series. In addition to being frequently sought after as a guest speaker at industry events and giving presentations to private companies, you will often see him quoted in industry publications, newspapers and business periodicals.</p> <p>A graduate of Indiana University, Steve has also served in the military and spent time in various accounting positions at two Fortune 500 companies, before joining ACT Research in 2000. He has been involved in the commercial vehicle industry since 1993 and has been vital to the growth of ACT Research over the years.</p>
	<p><b>Paul Traub</b> Chief Economist ACT Research Co.</p> <p>Paul Traub (BBA, MBA) currently holds the position of Chief Economist for ACT Research. Prior to joining ACT in 2021, Traub spent 10 years as Senior Business Economist at the Detroit branch of the Federal Reserve Bank of Chicago, and for 25 years worked at Chrysler, ending his tenure there as Chief Economist.</p> <p>Traub is currently a member of the National Association of Business Economists and the Detroit Economic Club; is on advisory boards for Oakland University School of Business Administration and the Department of Economics; and has served as an adjunct faculty member at Oakland University in the School of Business. At the Fed, Traub was co-creator of the Federal Reserve Bank of Chicago's Detroit Economic Activity Index and a frequent contributor to the Midwest Economy and Michigan Economy blogs. He holds a B.B.A. from the University of Michigan-Dearborn and an M.B.A. from Oakland University.</p>
	<p><b>Carter Vieth</b> Research Associate ACT Research Co.</p> <p>Carter joined ACT Research in February 2020 as a research associate, focusing on the financial and freight of the industry.</p> <p>He received his B.A. from Indiana University in East Asian Languages &amp; Cultures with an emphasis on Chinese history and language. During college, Carter studied abroad twice in China and when not eating hot pot, he taught English to Chinese students. He is also a member of the National Society of Leadership and Success.</p>



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	<p><b>Kenny Vieth</b> President and Senior Analyst ACT Research Co.</p> <p>After graduating from Southern Illinois University, Vieth spent six years in city government and education, before joining ACT Research in 1991. Vieth became a partner in 2000 and was named President in 2010. Kenny oversees commercial vehicle analysis and forecasting at ACT. In his capacity as the principal heavy vehicle market analyst, Vieth has become an advisor to OEMs, suppliers, Wall Street and the Federal Reserve, for whom he is a frequent contributor to the Beige Book report.</p> <p>In 2008, Vieth cemented a partnership with China's State Information Center to provide forecasts to Western companies interested in understanding commercial vehicle demand trends in China.</p> <p>Kenny is married with two children.</p>
	<p><b>Lydia Vieth</b> Research Analyst, Electrification &amp; Autonomy ACT Research Co.</p> <p>Lydia joined ACT in June 2021 as a Research Analyst, focusing on electrification and autonomy.</p> <p>Prior to joining ACT, she spent time as a paralegal before working at an energy management SaaS company. Her graduate school research focused on energy policy and battery arbitrage opportunity in the midwest power markets.</p> <p>Lydia holds a B.A. in Political Science and M.S. in Global Affairs with a concentration on energy and environmental policy from New York University. She lives in Brooklyn, NY.</p>
	<p><b>Michael Wishart</b> Business Development Manager TuSimple</p> <p>Michael Wishart is Business Development Manager for TuSimple, a global leader in autonomous trucking technology. Since joining the company in 2020, He has led efforts around the adoption, integration, and scaling of TuSimple's technology for strategic customers. Wishart played a key role in TuSimple's Reservation Program, which has accumulated more than 6,900 reservations to-date, from Blue Chip companies, for the TuSimple-Navistar production autonomous truck. Additionally, he is responsible for developing commercialization strategies for TuSimple's technology. Wishart looks forward to the continued learning and collaboration with the transportation industry, for the safe adoption of TuSimple's autonomous truck technology.</p> <p>Prior to joining TuSimple, he had more than 7 years of experience in operational and strategy roles for high-technology companies across fleet electrification, enterprise software, and semiconductors. Wishart earned his MBA at Stanford Graduate School of Business and BS in Mathematics at Santa Clara University.</p>





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