



MAINTENANCE, ENGINEERING & ROADWAY OPERATIONS WORKSHOP

CLEVELAND, OHIO

June 26-28, 2022

PROGRAM

HOSTED BY



WELCOME TO CLEVELAND!



Welcome to Cleveland and to the 2022 IBTTA Maintenance, Engineering, and Roadway Operations Workshop. It is my great honor to join you here in Cleveland and present a program designed to give you the tools and techniques you need to help make your facilities more efficient, your organizations better prepared, and your roadways safer for everyone.

This is a dynamite program, led by our Chief Meeting Organizer, Chris Matta, the Chief Engineer of the Ohio Turnpike, with a great group of planners and hosted by the Ohio Turnpike Commission. The subjects are on target and range from “the impact of extreme weather on our roadways” to “attracting and retaining talent” to “the future of roadway engineering” to “managing and reusing assets” and everything in between.

Of all the IBTTA meetings, this is the one most geared toward people who roll up their sleeves every day to get the work done. So, it's also the perfect place to host the IBTTA Foundation's Annual Service Project.

This year, we're headed to the Boys & Girls Clubs of Northeast Ohio, where our team will build a new full-sized basketball court for the kids who use the facility on a daily basis. This project is important, first, because it provides a tangible way for us to give something back to the communities in which we meet. Secondly, it gives you, our member volunteers – people with an array of different skills – the chance to work on something together and experience community and camaraderie at the most basic level.

Through service to our customers, our workforce, and the communities in which we meet, we are building a brighter future.

On behalf of the IBTTA family, I thank all of our volunteers for their time and their energy this week, and I wish you all a very exciting, educational, and inspiring workshop here in Cleveland.

Diane Gutierrez-Scaccetti

Commissioner
New Jersey Department of Transportation
IBTTA President

CHIEF MEETING ORGANIZER



 **Chris Matta, P.E.**
Chief Engineer
Ohio Turnpike and
Infrastructure Commission
Berea, OH

ABOUT OUR HOST



Ohio Turnpike and Infrastructure Commission

The Ohio Turnpike is a 241-mile toll road that offers one of the safest, best and most convenient routes for motorists to reach east/west destinations along the northern corridor of Ohio. Built from 1949 to 1955, construction for the roadway was completed a year prior to the Interstate Highway System. The modern Ohio Turnpike is signed as three Interstate numbers: I-76, I-80, and I-90. Learn more at www.ohioturnpike.org.

Left photo: Cleveland is home to four pairs of statues known as the Guardians of Traffic—each one symbolizing progress in transportation.

MEETING FAQs

HOTEL INFORMATION

Hilton Cleveland Downtown
100 Lakeside Avenue East
Cleveland, OH 44114
Phone: (216) 413-5000

EVENT FAQs

BADGES: Badges are required to gain entry into all sessions. In consideration of other attendees, please wear your name badge to all scheduled functions.

CERTIFICATION/PROFESSIONAL DEVELOPMENT HOURS: IBTTA recognizes the need for professional engineers and planning professionals to demonstrate continuing professional competency in their respective fields and earn certification maintenance (CM) credit or professional development units (PDU). IBTTA will provide interested attendees with a certificate of attendance following the workshop.

COMPETING EVENTS: It is against IBTTA policy for other organizations to schedule events or meetings during the program.

CONSIDERATIONS: During the meeting, please take side conversations outside of the room.

DRESS: Business or business casual is encouraged for all sessions.

LEADERSHIP ACADEMY ALUMNI:  This designation reflects an alumnus of IBTTA's Leadership Academy. You'll see this designation throughout the program.

MEDIA: Members of the media are permitted to attend sessions only.

MEETING APP:



GET THE IBTTA MEETINGS APP

Scan this QR code with your smartphone to download the IBTTA Meetings app



MEMBER PUBLICATIONS AND COLLATERAL: All members of IBTTA are welcome to place their publications in the registration area.

PRESENTATIONS AND VIDEO RECORDINGS: Presentations authorized for distribution will be available to IBTTA members within a week after the conclusion of the workshop. Visit www.ibtta.org/past-events on IBTTA's website following the meeting.

REGISTRATION FEES AND EVENT TICKETS: Delegate and Speaker fees include all meals, functions and sessions. Tickets may be available for evening and other events.

SATISFACTION SURVEY: Please help IBTTA improve future meetings by completing the survey that will be emailed to you following the conference.

SPECIAL ACCOMMODATIONS: If you need special accommodations to fully participate in IBTTA events, please notify the staff at the IBTTA registration desk.

SPONSOR/EXHIBITOR INFORMATION: Please support our generous sponsors and exhibitors by reviewing the Sponsor and Exhibitor section of this program and spending time in the Exhibit Hall.



HEALTH & SAFETY

Please follow the CDC's quarantine guidelines in case you have or have been exposed to COVID-19. Thank you for keeping the IBTTA community safe and healthy.



WI-FI

Network Name: **Hilton_Meeting**
Password: **ibtta2022**

ABOUT IBTTA

The International Bridge, Tunnel and Turnpike Association (IBTTA) is the worldwide association for the owners and operators of toll facilities and the businesses that serve them. Founded in 1932, IBTTA has members in 20 countries on six continents. Through advocacy, thought leadership and education, members are implementing state-of-the-art, innovative user-based transportation financing solutions to address the critical infrastructure challenges of the 21st Century.

EVENTS

SERVICE PROJECT - BOYS & GIRLS CLUBS OF NORTHEAST OHIO

Sunday, June 26, 2022 | 8:00am - 4:00pm

Volunteer Fee: \$40.00 (fee covers all project supplies for the day, transportation, project t-shirt, and food and drink.)



The Boys & Girls Clubs of Northeast Ohio serves more than 200 kids, age 6-15 and their families. This Club is located in the Slavic Village neighborhood on the East side of Cleveland. Our projects include:

- building a new full-sized multi-purpose basketball court;
- fixing, repairing and cleaning the baseball field and dugout;
- cleaning and repairing the greenhouse(s);
- planting and landscaping the property;
- organizing the library, art room, other highly used areas inside the facility.

Join us for a great day at this very special Club! www.bgcneo.org.



SPONSORS



TECHNICAL TOUR - VETERANS MEMORIAL BRIDGE LOWER-LEVEL SUBWAY ACCESS

Monday, June 27, 2022 | 5:30pm - 6:30pm

Fee: \$15.00

The Veterans Memorial Bridge is crossed by thousands of Clevelanders on daily basis. It's also where streetcars used to take commuters to and from their destinations in the early to mid-twentieth century. Once the largest double-deck concrete bridge at the time of completion in 1918, the Veteran's Memorial Bridge continues to stand front and center among Cleveland's architectural wonders. Streetcars, tunnels and the four original tracks still stand as they were in 1917 when it opened to the public on Christmas Day. The subway contained six stations, four restrooms and pedestrian tunnels—serving as a major hub for commuter transportation until the discontinuation of streetcar service on January 24, 1954. This private and very special semi-guided tour will give IBTTA attendees a chance to step back in time when the original streetcar station was a part of everyday life. We'll get views of Lake Erie, the Flats and downtown Cleveland that are only available from the bridge.

Tour participants will be dropped off at the evening event following the end of tour.



EVENING EVENT - COLLISION BEND BREWING COMPANY

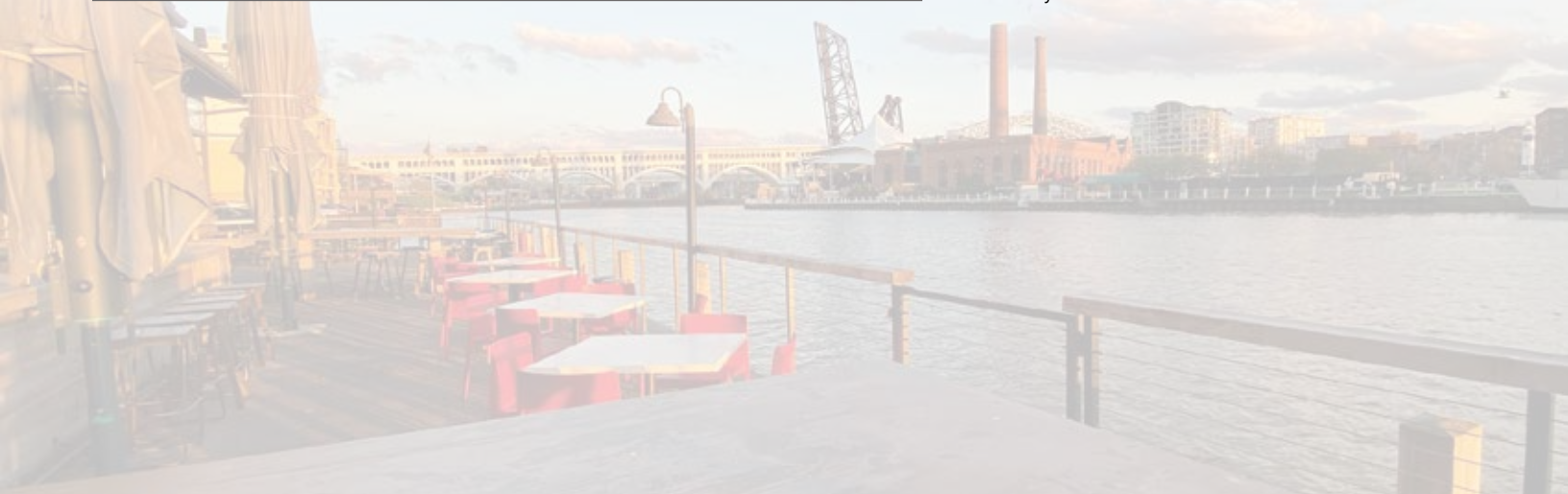
Monday, June 27, 2022 | 6:30pm - 9:30pm

Event is included for all registered attendees.



Collision Bend Brewing Company, named for the narrow and crooked passages along the Cuyahoga River navigated by large commercial ships, is comprised of crafted artisanal beers and a menu inspired by Cleveland's melting pot for a unique dining and social experience. Join your peers for a night of networking with a view of the Cuyahoga River!

Technical Tour participants will be dropped off at Collision Bend following the end of tour. If you're not going on the technical tour, Collision Bend is an easy walk from the hotel. See you there!



AGENDA

SATURDAY, JUNE 25, 2022

10:00am - 2:30pm 2023 CONFERENCE PLANNING MEETING

(Hope Ballroom/Center Street Ballrooms)

Open to all IBTTA Members

FACILITATOR: Andrew B. Fremier, P.E., Deputy Executive Director, Operations, Bay Area Toll Authority and First Vice President, IBTTA, San Francisco, CA

Includes lunch.

3:00pm - 6:00pm EXHIBITOR SET UP

(Hope Ballroom E)

This set-up is for exhibitors who plan to participate in the Foundation Service Project on Sunday.



SUNDAY, JUNE 26, 2022

4:00pm - 7:00pm REGISTRATION

(Lakeside Foyer, 3rd Floor)

8:00am - 4:00pm ANNUAL SERVICE PROJECT

BOYS & GIRLS CLUBS OF NORTHEAST OHIO

See page 5 for details.

8:00am - 3:00pm EXHIBITOR SET UP

(Hope Ballroom E)

5:30pm - 7:00pm WELCOME RECEPTION WITH EXHIBITORS

(Hope Ballroom E)



MONDAY, JUNE 27, 2022

7:00am – 5:30pm

REGISTRATION

(Lakeside Foyer, 3rd Floor)

7:00am – 8:30am

BREAKFAST WITH EXHIBITORS

(Hope Ballroom E)

8:30am – 10:30am

GENERAL SESSION

8:30am – 9:00am

(Hope Ballroom D)

WELCOME REMARKS

Patrick Jones, Executive Director & CEO, IBTTA, Washington, DC

Diane Gutierrez-Scaccetti, Commissioner, State of New Jersey Department of Transportation and President, IBTTA, Trenton, NJ

Ferzan Ahmed, P.E., Executive Director, Ohio Turnpike and Infrastructure Commission, Berea, OH

 **Chris Matta, P.E.**, Chief Engineer and Chief Meeting Organizer, Ohio Turnpike and Infrastructure Commission, Berea, OH

Joseph Greathouse II, Club Director, Boys & Girls Clubs of Northeast Ohio, Cleveland, OH

9:00am – 10:30am


(Hope Ballroom D)

THE IMPACT OF EXTREME (AND NORMAL) WEATHER ON MAINTENANCE, ENGINEERING & ROADWAY OPERATIONS

We're all familiar with the devastating, immediate, and lasting effects of recurring hurricanes, wildfires, and major winter storms. With each response to every new incident/challenge, however, the collective understanding of how to be well prepared and how to effectively respond to these challenges grows. Managing winter weather on an annual basis revolves around proper staffing, material procurement, equipment readiness, training, and best management practices. Managing these facets is what one might typically feel to be an appropriate approach to a successful winter season. Toll operators must also manage several "what if" scenarios, or black swan events to better safeguard the operation and allow for a preplanned response to ensure employee and customer safety.

MODERATOR: Craig Shuey, Chief Operating Officer, Pennsylvania Turnpike Commission, Harrisburg, PA

Roberto Treviño, Executive Director, Harris County Toll Road Authority, Houston, TX

 **Chris Matta, P.E.**, Chief Engineer, Ohio Turnpike and Infrastructure Commission, Berea, OH

Rick Fedder, Chief Operating Officer, ITR Concession Company, Elkhart, IN

Tim Scanlon, P.E., Director of Traffic Engineering & Operations, The PTC's Planning Process for Extreme Weather Events, Pennsylvania Turnpike Commission, Harrisburg, PA

10:30am – 11:00am

REFRESHMENT BREAK WITH EXHIBITORS

(Hope Ballroom E)

11:00am – 12:30pm

BREAKOUT SESSIONS

(Hope Ballroom D)

ATTRACTING, TRAINING & RETAINING TALENT: NAVIGATING THE RESOURCE DROUGHT

Hiring, retaining, and developing a workforce with the 'right' skills for the 'right' time has always been a challenge. However, current workforce trends are deepening that impact. How do toll agencies and private partners shift their workforce policies and practices to turn trends into opportunities? How are you identifying and anticipating the necessary technology skills and integrating them in all positions of a modern workforce? What are you doing to attract, train, and retain a diverse workforce? How do you balance work flexibility (such as work from home) with the desire to build a team, a culture, and integrate new hires? In this session, we'll hear from panelists who will share their real-life experiences.

MODERATOR: Diane Gutierrez-Scaccetti, Commissioner, State of New Jersey Department of Transportation and President, IBTTA, Trenton, NJ

Ferzan Ahmed, P.E., Executive Director, Ohio Turnpike Commission, Berea, OH

Jeffrey Miller, Executive Director, West Virginia Parkways Authority, Charleston, WV


(Hope Ballroom A-B)

ROADWAY OPERATIONS & ENGINEERING: ELECTRIC VEHICLE INFRASTRUCTURE AND THE FUTURE OF ROADWAY ENGINEERING

In the very near future, electric vehicles (EVs) will outnumber gas-powered vehicles. The widespread adoption of EVs—which are cleaner, but also markedly heavier than their gas-powered counterparts—will fundamentally change how roadways are designed, engineered, built, operated, and maintained. Planning for new EV infrastructure—like high-speed charging stations, EV-ready rest stops, and electrified roads will become the norm for road design, planning, construction, and management. This session will explore EV-centric roadways of the future, how existing assets can be repurposed to meet the needs of the EV future and what the tolling industry can do to, quite literally, not get left by the side of the road as EVs become the dominant force in road transportation.

MODERATOR: Jeff Kupko, P.E., PTOE, Associate Vice President, National Advanced Mobility & Vehicle Electrification Director, Michael Baker International, Columbus, OH

The Future Impacts of EVs on our Roadway Systems

 **Richard Young, P.E.**, Vice President, Project Management, US West Transportation, Streamwood, IL

Regional Deployment of Charging Stations in Northeast Ohio

Randy Lane, Director of Programming, Northeast Ohio Areawide Coordinating Agency, Cleveland, OH

12:30pm – 1:30pm

LUNCH WITH EXHIBITORS

(Hope Ballroom E)

AGENDA


1:30pm – 3:00pm

BREAKOUT SESSIONS

(Hope Ballroom D)

A CONVERSATION WITH TODAY'S TOP ENGINEERS

Engineers from leading toll agencies will discuss current challenges they are facing and present innovative solutions on a variety of topics including alternative approaches to asset maintenance; dealing with labor shortages; mitigating decreased revenues with rising construction costs; and incorporating green initiatives into today's projects.

CO-MODERATOR:  **John Keller, P.E.**, Executive Director, New Jersey Turnpike Authority, Woodbridge, NJ

CO-MODERATOR: **Kary Witt, P.E.**, Vice President, National Toll Market Practice Leader, HNTB Corporation, San Francisco, CA

Theresa Simmons, P.E., Director of Operations, Richmond Metropolitan Transportation Authority, Richmond, VA

Eric Seabury, P.E., Director of Engineering, Rhode Island Turnpike and Bridge Authority, Jamestown, RI

Frank Flowers, Manager of Maintenance, Rhode Island Turnpike and Bridge Authority, Jamestown, RI

Bradley Heigel, P.E., Chief Engineer, Pennsylvania Turnpike Commission, Middletown, PA

 **Chris Matta, P.E.**, Chief Engineer, Ohio Turnpike and Infrastructure Commission, Berea, OH

Steve Tartre, P.E., Director of Engineering, Maine Turnpike Authority, Portland, ME

(Hope Ballroom A-B)

ROADWAY OPERATIONS: BELOW, ON & ABOVE THE ROAD – MANAGING AND REUSING ASSETS

The future of tolling will depend on the industry's ability to properly manage and reuse the assets it already has to keep pace with the ever-evolving intersection of transportation, tolling and technology in the 21st Century. On the road, tolling organizations must be looking at new opportunities to leverage solar power, expand electric vehicle (EV) infrastructure, harness 5G communications technology and prepare for autonomous, connected vehicles. Below the road, tolling organizations must focus on more effectively using fiberoptic networks, Hyperloop technology and third-party lease agreements. Above the road, tolling organizations must consider how to manage unmanned air systems that will soon take flight transporting both people and goods. This session will explore the opportunities tolling organizations have to manage new assets and reuse existing ones to ensure growth and success on the toll roads of today and tomorrow.

MODERATOR:  **Brian Kelley**, Chief Technology Officer, Ohio Turnpike and Infrastructure Commission, Berea, OH


The Roadside is Dead; Long Live the Roadside

Mary Agnolin, Solution Architect, ETC, Richardson, TX

All Roads Lead to Fiber

Brian Johnson, Consulting Systems Engineer, Ciena, Aberdeen, SD

Using Part-Time Shoulder Lanes as Managed Lanes

 **Chadi Chazbek, P.E.**, Regional Vice President, Kimley-Horn and Associates, Inc., Reston, VA

Cellular Vehicle-To-Everything (C-V2X)

Dennis Ong, Ph.D., Senior Manager, Next-Gen Automotive, Device Technology, Verizon, Columbus, OH

3:00pm – 3:30pm

REFRESHMENT BREAK WITH EXHIBITORS

(Hope Ballroom E)

3:30pm – 5:00pm

BREAKOUT SESSIONS

(Hope Ballroom D)

MAINTENANCE: WEATHERING THE NEXT STORM – PREPARING FOR EXTREME EVENTS

The best time to repair a hole in the roof is when the sun is shining. Instead of waiting for the inevitable extreme weather event to happen, toll agencies must take steps now to ensure user and responder safety while protecting their infrastructure during a crisis. In this session, the planners are looking for examples of best practices and lessons learned in disaster planning, and how organizations can take steps to minimize the impact of extreme weather events well before they happen.

MODERATOR: **Greg Le Frois, P.E.**, Senior Vice President, HNTB Corporation, Parsippany, NJ

Amitis Meshkani, P.E., Director of Maintenance, North Texas Tollway Authority, Plano, TX

 **Jason Weber**, Roadway Operations Manager, Kansas Turnpike Authority, Wichita, KS

Chris Ricks, Administrative Services Supervisor, E-470 Public Highway Authority, Aurora, CO

(Hope Ballroom A-B)

ASSET MANAGEMENT: DATA DRIVEN ASSET MANAGEMENT

As Toll Systems expand and money becomes tighter with inflation and increased material costs, data from numerous sources can be leveraged to build more effective solutions supporting just-in-time repairs and refurbishments. The effect is to control costs and maximize productivity while minimizing emergency repairs. Data-driven AI and model-based decisions apportion money to the appropriate effort while extending the longevity of the assets. Defining the adequate amount of "Data" from the proper sources and using data analytics to leverage the most effective use of funds is key to the future of Data-Driven Asset Management. These savings are realized by systematically maintaining the roadway assets before falling into a failed condition, resulting in high rehabilitation and reconstruction costs. Employing proactive maintenance practices, intelligent modeling, innovative tools, and GPS tracking of personnel and maintenance vehicles ensure that work is tracked and inspected effectively. An agency's implementation of creative data collection techniques for maintenance can also be leveraged to reduce maintenance budget outlays, assisting in future planning. This session will focus on how data-driven asset management can be a very effective tool in controlling lane management budgets.

MODERATOR: Wayne Reed, PMP, Project Manager, ITS/Tolling, Engineering Services, Atkins N.A., Charlotte, NC

Pavement Performance Prediction Models for the Illinois Tollway System-A Case Study

Laxmikanth Premkumar, P.E., Group Leader, ARA Inc., Camp Hill, PA

ARGO Structural Health Monitoring Platform for Road Assets

Gabriele Grasso, Account Executive, Movyon S.P.A., Milan, Italy

National Highway Current and Future Drone Use Cases

James Locke, Associate, Managed Services, IBI Group UK, Newark-on-Trent, Nottinghamshire, UK

5:30pm - 6:30pm

TECHNICAL TOUR

(Bus leaves from the Lobby at 5:15pm)

VETERANS MEMORIAL BRIDGE LOWER-LEVEL SUBWAY ACCESS

6:30pm - 9:30pm

EVENING EVENT

(1250 Old River Rd, Cleveland, OH)

COLLISION BEND BREWING COMPANY

Meet in Lobby at 6:15pm to walk together as a group. It will be a 15 minute walk.

TUESDAY, JUNE 28, 2022

7:00am - 1:30pm

REGISTRATION

(Lakeside Foyer, 3rd Floor)

7:00am - 8:30am

BREAKFAST WITH EXHIBITORS

(Hope Ballroom E)

8:30am - 10:00am

BREAKOUT SESSIONS

(Hope Ballroom D)


A CONVERSATION WITH MAINTENANCE AND ROADWAY OPERATIONS PROFESSIONALS

After a well-received session in 2021, this session is back and once again. We will be asking a panel of esteemed Maintenance and Roadway Operations Professionals wide-ranging questions about current practices, issues, and creative solutions. Prepare to walk away with at least one new idea, and potentially many more!

MODERATOR: Kristi Van Ooyen, P.E., Engineering Program Manager, Maine Turnpike Authority, Portland, ME

Bryan Emery, Maintenance Operations Engineer, Ohio Turnpike and Infrastructure Commission, Berea, OH

Steven Scanlan, P.E., Asset Maintenance Manager, Transurban, Alexandria, VA

 **Chris Warren, P.E.**, Vice President, Florida Director, Louis Berger/WSP USA, Ocoee, FL

Eric Dawley, Field Director Innovation, Oklahoma Turnpike Authority, Oklahoma City, OK

Rohan Gayle, General Manager of Roadway Maintenance, Illinois Tollway, Downers Grove, IL

James Go, P.E., Associate Project Engineer, Bay Area Toll Authority, Metropolitan Transportation Commission, San Francisco, CA

(Hope Ballroom A-B)

ASSET PRESERVATION: IT'S A MONEY SAVER

Everyone recognizes preserving our assets is a fiscally responsible way to manage our assets. However, the competing demands of the motoring public, the time to perform preservation actions, the constrained labor force of our maintenance staff, and the increasing size of our infrastructure all conspire to limit the preservation actions we undertake. Asset preservation actions can be attributed to three basic groups: Bridges, Pavements and Ancillary Roadside Elements. For each of these asset types, preservation actions can be either cyclical or condition driven. This session will showcase projects and techniques that have been effective at delaying or reducing the deterioration of infrastructure.

MODERATOR: Richard Dunne, P.E., National Director of Bridge Preservation, GPI, Lebanon, NJ

Bridge Deck Preservation Utilizing Sealers

Tim Woolery, Vice President of Sales, Advanced Chemical Technologies, Eufaula, OK

Preserving Bridge Deck with Thin Overlays

Casey Rafter, Northeast Regional Manager, Kwik Bond Polymers, Ashburn, VA

Accelerated Bridge Deck Preservation Using Hydrodemolition

Edward Liberati, P.E., Chief Engineer, Hydro Technologies Inc/Modified Concrete Suppliers, Columbus, OH and

Patrick Martens, P.E., Bridge Preservation Engineer, Bridge Preservation and Inspection Services, Jefferson City, MO

Concrete Slab Roadway Restoration

Dan Moellman, P.E., Senior Product Engineer, The Fort Miller Co, Inc., Schuylerville, NY

Drainage Pipe Rehabilitation

Keith Merl, P.E., Northeast Regional Manager, Hobas Pipe, West Grove, PA

10:00am - 10:30am

REFRESHMENT BREAK WITH EXHIBITORS

(Hope Ballroom E)

AGENDA

10:30am – 12:00pm

GENERAL SESSION

(Hope Ballroom D)

SAFETY PART 1: WORKER SAFETY STRATEGIES

Life on the road can be dangerous. While performing important, detailed tasks connected to the continued operation and improvement of the roadway, workers face safety risks at every turn, the most noteworthy being the many vehicles speeding down the road just feet away from where they're working. The goal of any tolling organization is to make sure that every one of its workers comes home safely after each day or night at work maintaining or upgrading their roadway. This session explores some of the best practices for protecting the safety of motorists and roadway workers under challenging conditions.

MODERATOR: Larry Bankert, Jr., P.E., PTOE, Associate, Kimley-Horn and Associates, Inc., Mechanicsburg, PA

The Road to Zero

Cory Skoczen, Safety Services Manager, Ohio Turnpike and Infrastructure Commission, Berea, OH

Reducing Risks in Work Zone Set Ups Through Drone Training Video and Positive Protection

Dale Mitchell, Senior Project Manager, HNTB Corporation, South Portland, ME

Highway Debris: The UNEXPECTED Danger

Fred Bergstresser, Marketing and Business Development Manager, J-Tech, Chester Springs, PA

Chesapeake Bay Bridge Crossover Automated Lane Closure System

Marie Seguin, Vice President, Versilis, Quebec, Canada

12:00pm – 1:30pm

LUNCH WITH EXHIBITORS

(Hope Ballroom E)

1:30pm – 3:00pm

GENERAL SESSION

(Hope Ballroom D)

SAFETY PART 2: FOCUS ON MOTORIST SAFETY


The goal of eliminating roadway fatalities sounds like a pipe dream, until you consider the fact that there are several ways that roadway design, effective maintenance and ongoing communications can be used to make truly drastic improvements in road-user safety. Experts in this session will share case studies and real-world experiences making radical shifts in engineering and technology, operations and management, policy, enforcement, and public relations that can have radical impacts on making roads safer.

MODERATOR: Larry Bankert, Jr., P.E., PTOE, Associate, Kimley-Horn and Associates, Inc., Mechanicsburg, PA

Smart Work Zone Usage – Kansas DOT Use Case

Slade Engstrom, P.E., PTOE, Principal/Senior Vice President, TranSystems, Wichita, KS

Improving Customer Safety Through Targeted Programs

 **Chris Norvell**, Director of Operations, ITR Concession Company, Elkhart, IN

Truckers Against Trafficking

Esther Goetsch, Interim Executive Director, Truckers Against Trafficking, Tulsa, OK

3:00pm

ADJOURN



IBTTA AUSTIN★2022

90TH ANNUAL MEETING & EXHIBITION

Check the preliminary schedule
and make your plans to be in Austin
September 17-20, 2022.

www.IBTTA.org/austin

MEETING HIGHLIGHTS:

- ★ **Keynote Speaker**
Steve Farber, International Business and Leadership Speaker and Founder of The Extreme Leadership Institute
- ★ **"Hot" Topic General Sessions PLUS Four Tracks**
 - Tech Talks
 - Transportation Equity
 - Environment & Climate Change
 - Safety
- ★ **Evening Events Each Night**
including a special Monday night event hosted by the Platinum Sponsors at Stubb's Austin
- ★ **Don't Miss Out** – programming begins on Saturday morning including sessions presented by the Young Professionals Council, the Women in Tolling and the IBTTA Platinum Sponsors.
- ★ **Recognition** for the 2022 Scholarship Winners, Toll Excellence Winners, DEI Program Award Winners and much more!



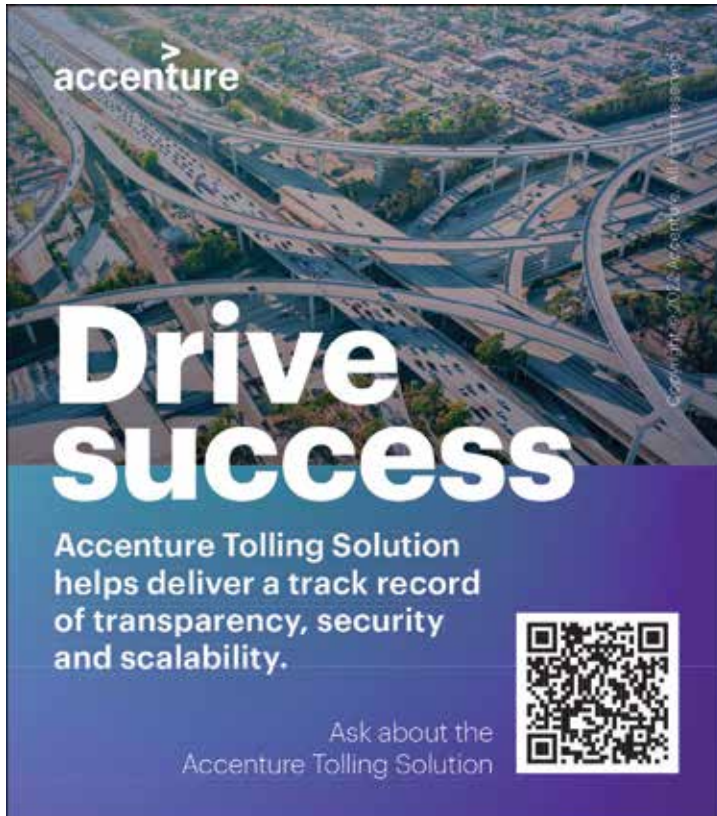
REGISTRATION OPENS JULY 11, 2022



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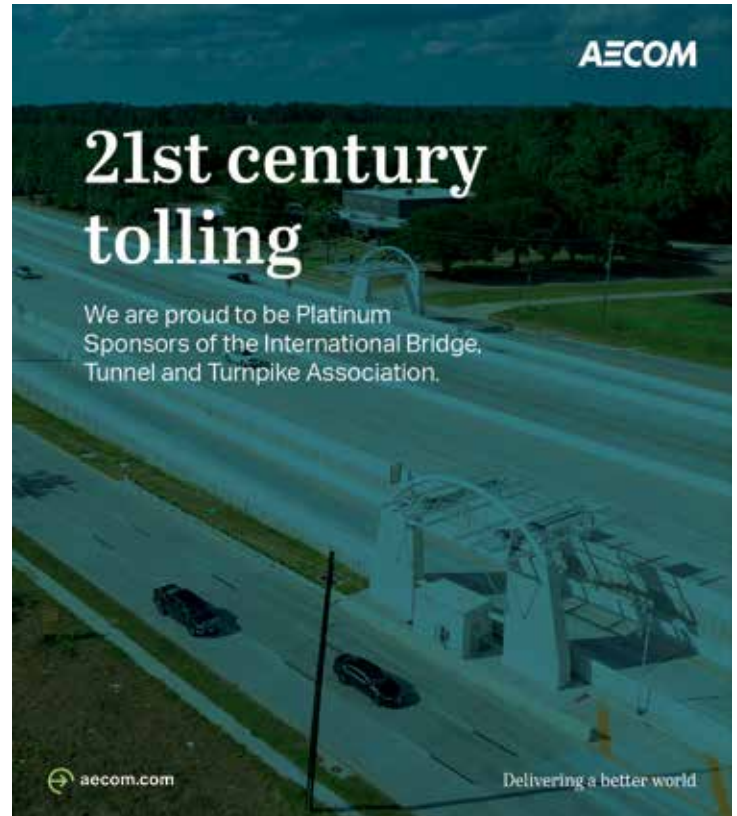
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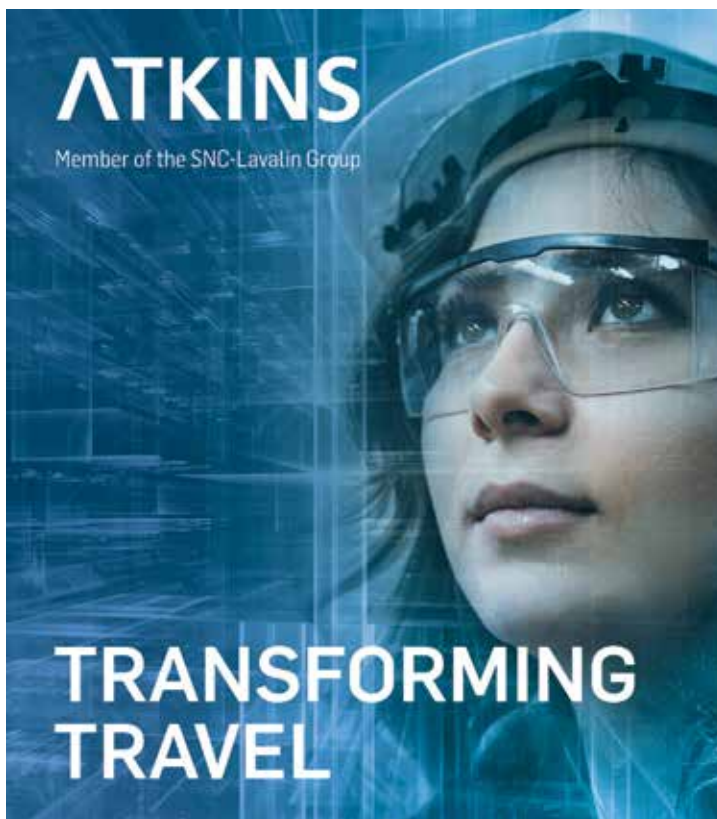
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BLISSWAY

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Ideas transform communities

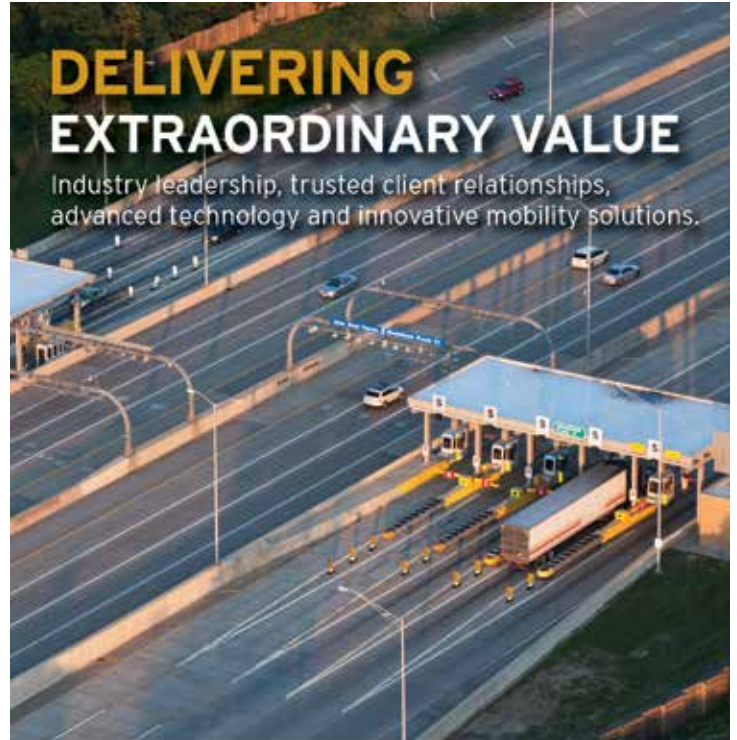
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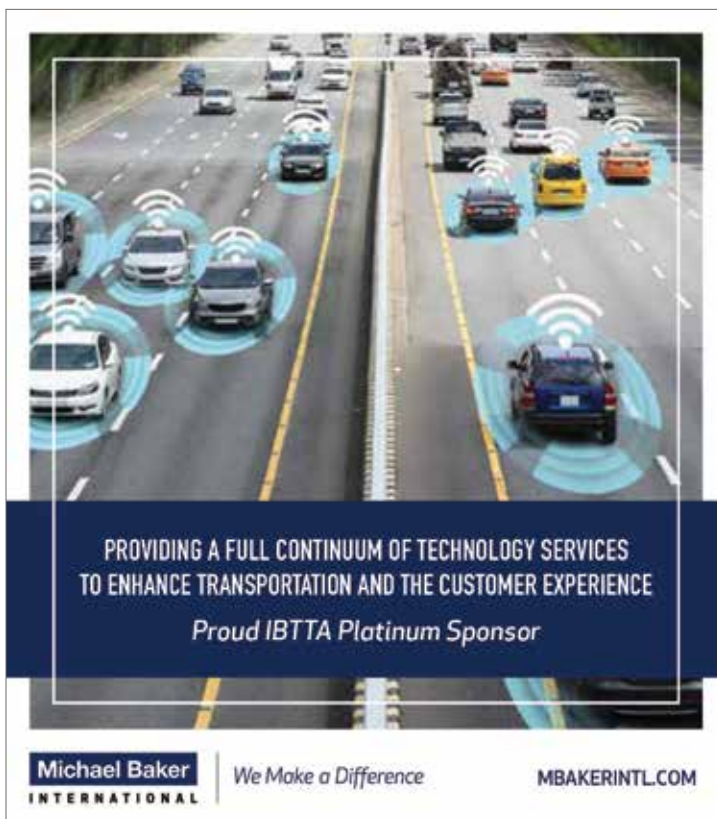
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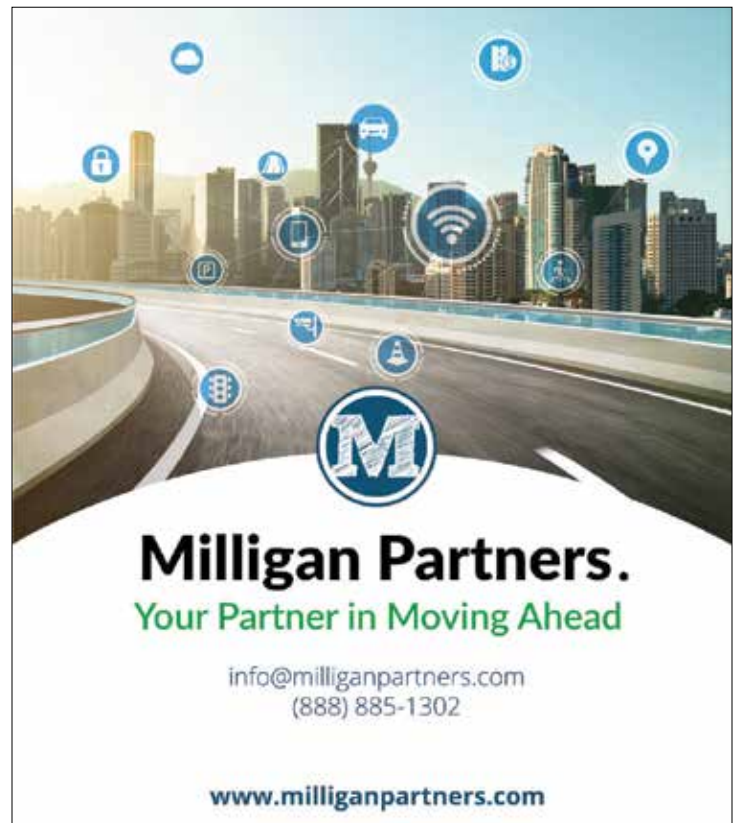
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Services we deliver include implementation; operations of back-office, CSCs, walk-in centers, and in-lane cash collections; as well as video billing and violation enforcement. We've also operated traffic management centers and roadway service patrols, maintained facilities, and managed transponder inventory, recalls, and retail programs.

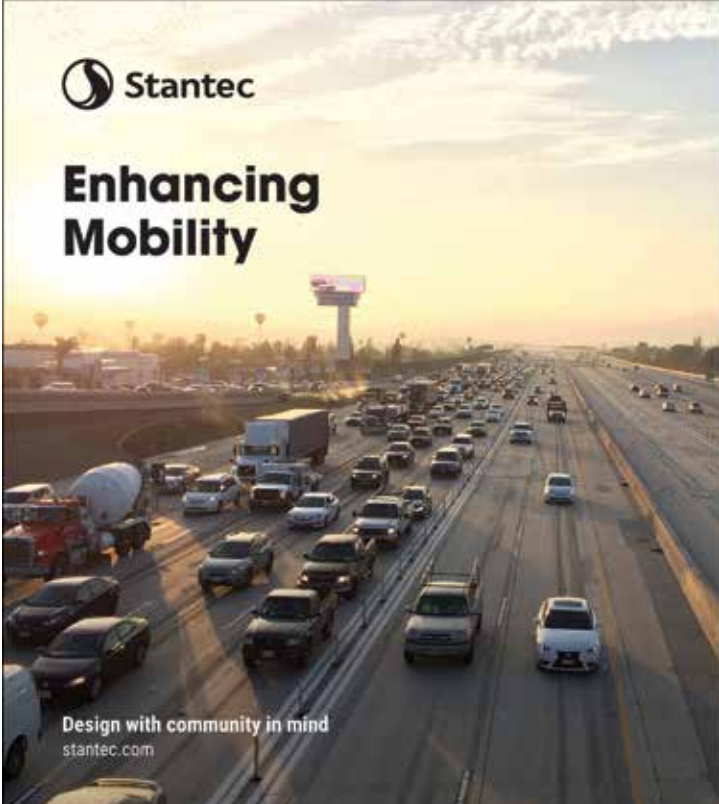
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From modernizing transportation systems by converting to all-electric tolling, to providing fully integrated maintenance and operations services to help clients manage the mobility of people and goods, WSP is committed to delivering sustainable, resilient and equitable solutions that improve the communities where we live and work.



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AECOM Delivering a better world

AECOM is the world's premier infrastructure firm, delivering professional services throughout the project lifecycle – from planning, design and engineering to consulting and construction management. We partner with our public and private sector clients to solve their most complex challenges and build legacies for generations to come. Ranked #1 in Transportation by Engineering-News Record, our tolling experts help develop and operate toll systems throughout the United States. From all-electronic tolling and interoperability, to congestion pricing and managed lane strategies, we are leading the charge to solve today's mobility challenges. Whether it's innovative customer service, advanced payment systems or evolving toll collection, we work with you to define, implement and operate your tolling and payment solutions. With national leadership, broad experience and an unmatched worldwide footprint, we have the talent and expertise to help you deliver cutting-edge systems that are tailored to meet your needs today and into the future. www.aecom.com

ATKINS

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Atkins toll specialists have helped public and private clients plan, develop, design, build, manage, operate, and maintain their tolls infrastructure. Our strategists, program managers, and project delivery specialists have worked in every aspect of tolling providing services to the world's leading user-financed organizations. Our clients benefit from the proven project development, innovative delivery, and cutting-edge toll technology consulting expertise the Atkins team brings.

www.snclavalin.com/en/markets-and-services/markets/transportation

A-to-Be

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A-to-Be is a technology provider responsible for the development and deployment of advanced tolling and mobility solutions across global transportation markets. Part of Brisa Group (the largest private road operator in Portugal) and with a U.S. subsidiary based in Illinois, A-to-Be is an international company with solutions deployed across multiple states, countries and continents. For over 40 years, A-to-Be has provided leading end-to-end tolling solutions, covering from roadside to backoffice and all the different tolling modes, including RUC. Today, we are enablers of integrated mobility experiences through a backoffice platform which supports a single mobility account. We also provide solutions to reduce congestion, such as Managed Lanes and Congestion Pricing. With billions of annual transactions and travelers using our systems internationally, we build innovative solutions, with exciting research lines. Our technologies drive mobility forward. www.a-to-be.com



Bestpass is a comprehensive payment platform provider and leader in toll management solutions for commercial fleets of all shapes and sizes. We ensure data accuracy, consolidate payments, and save users time and money. Founded in 2001 by truckers for truckers, we are a trusted partner on the road and in the back office for customers and tolling authorities.

www.bestpass.com



BLISSWAY provides next-generation roadside tolling infrastructure deployable in weeks and at zero upfront cost to agencies. www.blissway.com



CDM Smith provides lasting and integrated solutions in transportation, water, environment, energy and facilities to public and private clients worldwide. As a full-service engineering and construction firm, we deliver exceptional client service, quality results and enduring value across the entire project life cycle. CDM Smith provides expertise in toll finance, technology and operations, providing all levels of traffic and revenue studies, feasibility analyses, risk assessments and project management for public and private clients. We also help clients in their procurement processes for toll technology, operating contracts and P3 development agreements. With 65 years of commitment to the transportation industry, CDM Smith has the thought leadership and experience to assist clients in implementing new facilities and improving existing operations, whether converting to all-electronic toll collection, implementing HOT lanes, upgrading equipment or managing organizational change. www.cdmsmith.com



With nearly 30 years experience, Conduent Transportation has a proven record of leadership in the tolling industry, delivering innovative technology-agnostic business solutions. We partner with our agency clients to promote mobility, reduce congestion and pollution, modernize payment options, and enhance traveler journeys. Our innovative solutions improve quality and efficiency while reducing costs and generating sustainable funding opportunities for transportation and other initiatives. Our history supporting key tolling programs alongside our continuous innovation has put Conduent Transportation at the forefront of the industry making us one of the largest electronic toll collection and back-office solution (BOS) providers in the U.S. We have extensive experience designing, installing, operating, maintaining, and delivering integrated toll solutions, including roadside solutions, back-office systems, automated license plate recognition (ALPR), dynamic toll pricing, vehicle occupancy detection, all electronic tolling (AET) lanes, operations and maintenance, and customer service centers (CSCs).

www.conduenttransportation.com

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Cubic Transportation Systems, Inc. is a leading integrator of payment and information technology and services for intelligent travel solutions. We deliver integrated systems for transportation and traffic management, including a next-generation, tolling back office system. We're uniquely positioned between traditional tolling, road user charging suppliers and large payment processors. At Cubic, we believe our identity is intrinsically linked with our customers and the people our customers serve. How they get from one place to the next – how that impacts their lives, their fellow travelers and their cities – and how it feels along the way. That is why we are passionate about developing transportation solutions that improve the way we move throughout cities. Innovation is in our culture, and our 45-year history speaks for itself. We've delivered state-of-the-art public transit and traffic management system to over 450 operators in major cities and four continents. We are getting you there. Smarter. www.cubic.com/solutions/transportation/tolling



Emovis is the prime technology and operations service provider of the Abertis Group for toll-based mobility solutions. The company is currently operating some of the world's busiest cashless toll roads including Montreal's A25 Highway and Liverpool's Mersey Gateway bridge. In 2017, the company converted Puerto Rico's Metropistas Highway Network into an All Electronic Tolling (AET) highway network. Emovis is also pioneering new mobility pricing solutions for mileage-base user-fees (MBUF), low-emission zones, and congestion. The company is currently a Commercial Account Manager in Oregon's Road User Charge program (OreGo), which is the first ever MBUF program implemented in the United States. Emovis won the Washington RUC (WARUC) pilot in 2017 and the UDOT Road Usage Charge project in 2019 with the objective of providing a fair and efficient funding solution for transportation departments with declining fuel tax revenues. www.emovis.com



ETC is a leading U.S. intelligent transportation systems provider, developing and delivering best-in-class solutions for tolling, congestion management, urban mobility, and multimodal transportation needs. ETC's passionate and innovative team has been driving the future of mobility since 1999, with a number of industry firsts, including all-electronic tolling (AET), dynamic pricing, agency interoperability, hosted mobility solutions and machine learning. For over two decades, ETC has delivered sophisticated solutions to many of the largest toll authorities in the U.S., including statewide programs, county networks and tolling-specific authorities. ETC's solutions process over two billion transactions annually, totaling over \$3 billion in revenues for our customers, incorporating the latest in evergreen open-source and SaaS technologies and Big Data architecture through our innovative riteSuite™ products. www.etc.com



For over 100 years, Gannett Fleming has shaped transportation infrastructure, connecting people and communities around the world. We provide clients with extensive transportation advisory, planning, design, and construction management services. With an eye on innovative strategies to improve systems and financial sustainability, Gannett Fleming works with clients to address today's challenges and advance future mobility. With expertise in tolling and other pricing systems, we help define, deliver and test electronic,

open-road, variable and dynamic systems. Additionally, our concepts and solutions help reduce administrative burden, accelerate projects, provide a single point of responsibility, and, in some cases, achieve faster revenue collection for owners. Gannett Fleming's entire team works together to deliver excellence to every project, every day. www.gannettfleming.com



Our employees, working in 225 locations around the world, push open the doors to what's possible each and every day. Well known for providing innovative Intelligent Transportation System (ITS) components to transportation projects, HDR has invested and created an unparalleled group focusing on the next-generation of ITS, tolling and revenue replacement solutions. With our expert help, you can successfully navigate the transportation technology landscape — from concept to deployment and adoption. www.hdrinc.com/markets/transportation/highways-roads



HNTB Corporation provides more than 50 specialized services to the tolling industry, ranging from financial planning and analysis to operations and management and priced managed lanes, networks and corridors which are growing in popularity across the country. The firm has assembled a team of internationally recognized experts to help transportation agencies achieve a balance among design, technological, operational, budgetary, scheduling and aesthetic concerns — ensuring toll programs are safe, compatible and economical for the communities they serve. Services can be tailored to support all toll organizations — from start-ups to emerging and mature programs. HNTB, providing more than a century of infrastructure solutions, is proud to serve as the No. 1 consultant to toll authorities, agencies and their partners across the United States of America. www.hntb.com



IBI Group is an international leader in the application of technology in transportation. Working as a system integrator or as an owner's representative provides IBI Group with a unique perspective in the implementation of complex transportation technology projects. The firm was founded in 1974 and has grown steadily to its current international operations in Canada, the United States, Europe, the Middle East and Asia. www.ibigroup.com



IBM has been at the forefront of technology for over 100 years, leading industries across the world through major transitions, generation after generation. For tolling, IBM's work started with the opening of Pennsylvania Turnpike, and our technology enabled accurate revenue collection, establishing best practices for the industry that continue to this day. For over 20 years IBM has led congestion charging programs for London and Stockholm and implemented back-office systems that today are processing more than 1.7 billion transactions around the world. Moving forward, IBM is leading the way, with connected vehicle platforms, multi-modal trip planning, mobile tolling, blockchain, artificial intelligence, and more to help our clients stay at the forefront of technology. See how your agency can put smart to work with IBM! www.ibm.com



Kapsch TrafficCom is a globally renowned provider of transportation solutions for sustainable mobility. With over 130 years of experience, our proven, operational, and innovative solutions for Tolling, Traffic Management, Demand/Congestion Management, Mobile Tolling, Road User Charging and Connected Vehicle tolling enable us to deliver modern, market-focused technologies able to contribute to a healthier world without traffic congestion. Kapsch covers the entire value chain of our customers from Components, D&B and operations of their vital systems. Kapsch continually invests in the future of our industry by tackling the latest challenges posed by our customers, like launching the first US-based Truck-only Tolling system or providing more than 100 million tolling transponders all while launching a mobile tolling application with guaranteed revenue for tolling agencies. Kapsch is ready for the future of transportation revenue collection. Led from Atlanta Georgia, our team sets the standard for today's and tomorrow's tolling solutions. www.kapsch.net



We specialize in the art and science of digital transformation in government, with a focus on Transportation and Tolling programs. As a trusted partner with decades of award-winning service and delivery, we offer simple, innovative solutions to better connect government with its citizens and community partners. We understand the ever-increasing challenges facing transportation agencies and leverage our industry expertise to create targeted cloud, mobile, and enterprise business process solutions which reduce risk, increase ROI, and improve the quality of citizen engagement. Together, let's build an even better community. www.kyrasolutions.com

Michael Baker

INTERNATIONAL

Michael Baker International is a leading provider of engineering and consulting services, including design, planning, architectural, environmental, construction and program management. The company provides its comprehensive range of services and solutions to support U.S. federal, state and municipal governments, foreign allied governments, and a wide range of commercial clients. Michael Baker understands the time constraints of toll clients, with a proven track record of providing General Consulting Engineering and Managed Lane design services by consistently delivering high-end, professional engineering and integrated management solutions. Michael Baker's experience with tollway systems, including HOV and HOT, encompasses the planning, design, and construction of new and rehabilitated tollway systems and elements, including highways, bridges, Intelligent Transportation Systems (ITS), connected and autonomous vehicles, and communication systems. www.mbakertnl.com



Milligan Partners is a creative team of technologists and management consultants. We make a positive impact through teamwork and innovation. With integrity and a holistic approach to problem solving, we help our clients design solutions that improve their operations and allow them to better navigate the challenges of tomorrow. Our work focuses on the public sector and transportation services. www.milliganpartners.com



Since 1995, Shimmick's O&M team has provided operations and management excellence in supporting tolling systems, customer service centers, walk-in centers and manual cash collections. Our strategic approach has always been one of innovation and continued improvement with a focus on delivering an outstanding customer experience and taking a leadership role in delivering 21st-century technology. We develop processes and implement tools to create an efficient customer-centric operation which ensures our clients' tolling customers receive a positive and consistent customer experience through every service channel. Our commitment to quality is reflected in our use of Lean Six Sigma principles, as well as our history of successful project transitions whether we are taking over an existing CSC facility or standing up a new one. Our dedication to continued improvement drives operational efficiency and accountability through exciting new technologies which are designed to deliver the ultimate customer experience. www.shimmick.com



The Stantec community unites approximately 22,000 employees working in over 400 locations across 6 continents. We collaborate across disciplines and industries to bring buildings, energy and resources, and infrastructure projects to life. Our work—professional consulting in planning, engineering, architecture, interior design, landscape architecture, surveying, environmental sciences, project management, and project economics—begins at the intersection of community, creativity, and client relationships. Since 1954, our local strength, knowledge, and relationships, coupled with our world-class expertise, have allowed us to go anywhere to meet our clients' needs in more creative and personalized ways. With a long-term commitment to the people and places we serve, Stantec has the unique ability to connect to projects on a personal level and advance the quality of life in communities. Stantec has over 35 years of specialized traffic and revenue forecasting experience. We are a leader in preparing managed lanes feasibility and investment grade studies. www.stantec.com



Founded in 2013, STAR Systems International (SSI) is a world leader in Automatic Vehicle Identification Technologies. SSI focuses on providing best-in-class transponders, readers and professional consulting services for Smart City Initiatives, including Electronic Tolling (ETC), Congestion/Road Use Charging, Electronic Vehicle Registration (EVR), Express/HOT Lane, Fleet Management, Parking and Secure Access Control applications. SSI is guided by three principles: Outstanding People, Innovative Products and Service Excellence. The Company strives to ensure customer success by leveraging its technical expertise and implementation experience. www.star-int.net

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SWC brings proven experience in the highway toll, government, utility, telecommunications, cable, property management and education industries. Over the past 40 years, we have partnered with numerous clients to maximize the management of their accounts receivable, annually managing billions of dollars. From large Fortune 500 companies to small organizations, SWC has a proven history of connecting to understand the client's challenges, developing solutions that resolve receivables concerns, and delivering desired results. In addition to tradition accounts receivable management, SWC has also provided staff augmentation and 1st party customer service activities specifically in the tolling market. SWC also developed a guaranteed toll solution for video transactions, known as TollMaxx (tollmaxx.com). TollMaxx offers toll agencies the opportunity to leverage the capabilities and efficiencies of large volumes to reduce cost, eliminate collection risks and improve customer experience! www.swcgroup.com



TollPlus is an innovative and proven company providing a sophisticated end-to-end toll management solution that is scalable, lightweight, secure, and highly configurable to address the challenges of the electronic toll collection and mobility markets. Driven by passion to help our customers evolve and provide an enhanced customer experience, TollPlus' marquee product ToP-BOS™, provides Back Office Systems (BOS) focused on accuracy and accountability while processing extremely high transaction volumes. Our BOS platform handles a "One Account" concept to facilitate Mobility as a Service (MaaS) and support various multimodal solutions. In a rapidly-changing environment, TollPlus maintains a strong focus on technology and continuous R&D to offer world-class level products and services. These solutions are developed using trailblazing technologies that concentrate on significantly improving transportation agency efficiencies by reducing operating expenses and maximizing revenue – all while providing exceptional customer service to our global clients. TollPlus maintains offices in Texas, India, and Ireland. www.tollplus.com



TransCore provides fully-engineered transportation solutions for Tolling and Traffic Management systems. A pioneer in tolling, we provide full-scale operations and maintenance services for nearly half of all U.S. toll lanes and currently constructing the first Congestive Pricing Tolling System in the U.S. Our flagship Infinity Digital Lane System® is a complete roadside toll collection solution, and our Integrity Back Office system combines advanced financial management software with 30 years of proven customer service excellence. We design and deploy traffic management systems for agencies across North America, and currently manage more than 30,000 intersections worldwide. Our history of supporting the transportation industry dates back to the early 1930s with the country's first toll road in Pennsylvania, and in the 1980s with the development of RFID transportation applications at Los Alamos National Labs. Our RFID systems provide secure and interoperable access for airports, hospitals, parking garages, and the toll and rail industries. www.transcore.com



Verra Mobility is a global leader in smart transportation with a focus on smart cities, smart roadways and the connected systems that tie them seamlessly together. www.verramobility.com



WSP USA (formerly WSP | Parsons Brinckerhoff) provides a wide range of technical and management consulting services to owners, developers and operators of the toll industry. Services include strategic consulting, innovative financing, economic forecasting, analysis, planning, design, and operations & maintenance. WSP USA is the U.S. operating company of WSP, one of the world's leading engineering and professional services firms. Dedicated to serving local communities, we are engineers, planners, technical experts, strategic advisors and construction management professionals. With more than 7,000 people in 100 offices across the U.S., we partner with our clients to help communities prosper. www.wsp.com

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J-TECH's vision is "Helping You Make Roads Safer Workplaces" through innovation and production of quality safety equipment, and by being a solutions resource for our customers. J-Tech designs and manufactures crash trucks - attenuator trucks, pattern trucks and highway safety specialty equipment including the LaneBlade® and our innovative hitch-mounted safety baskets. Our equipment is used by highway maintenance contractors, government entities, utilities, Tollways, and traffic management companies all across the United States and Canada. J-TECH, "Helping you Make Roads Safer Workplaces" www.jtechusa.com



Kueper North America is the exclusive North American importer for Kueper Germany and their complete line of premium snowplow cutting edges. Kueper has manufactured flexible plow blades for almost 60 years and are now represented in over 45 states and 100 airports across North America. We sell our blades either directly or through our dealer network. Our blades are also available on both the NASPO and Sourcewell National contracts. www.kueperblades.com



Lindsay is moving the world forward by creating the most innovative products and fully integrated systems by reimagining safety and sustainability. Whether looking to reconfigure a roadway or install lifesaving additions, Lindsay infrastructure options strive to keep roads and the people

on them moving safely. The Road Zipper System manages congestion and traffic patterns with the industry's most unique and innovative solution. RoadConnect, a remote roadside asset monitoring platform, gives you the ability to remotely monitor key road and highway assets such as crash cushions, guardrails, end terminals, utility poles, bridge structures and more. RoadConnect allows for an increase in the speed and reliability of roadside maintenance, saves time and money while also improving road safety. Barrier Systems products protect motorists and work crews with a complete range of crash cushions, end terminals and TMAs. Snoline products improve lane navigation, visibility and safety by combining traffic signs with road marking tape and accessories. www.lindsay.com



Through relentless innovation, PSS manufacturers safety products that make work zones safer for drivers, pedestrians, bicyclists, and workers. RoadQuake® 2F Temporary Portable Rumble Strips (TPRS), are designed to reduce crashes and save lives by alerting drivers, especially distracted drivers, as they travel through work zones. RAPTOR® Rumble Strip Handling Machine transports, deploys, realigns, and retrieves RoadQuake TPRS in work zones. With RAPTOR, workers deploy and retrieve RoadQuake all from the safety of their work vehicle. The PSS product line also features the MASH-tested SafetyWall® ADA-Compliant Longitudinal Channelizer, LaneGard 3® Type III Barricade and CrashGard® Sand Barrel System. Through continuous innovation, and with consultation, education, and training, we work to save lives today, tomorrow, and for decades to come. www.pss-innovations.com



VALERANN

Valerann is an innovative cutting-edge Intelligent Transportation Systems (ITS) SaaS company that empowers control centres and road operators around the world by providing an intelligent traffic management platform, Lanternn by Valerann. Valerann leverages artificial intelligence (AI), big data technologies and data fusion techniques to enable network operators to extract maximum value from existing ITS infrastructure whilst leveraging new and connected vehicle and data sources. Established in 2016, Valerann has invested extensively in R&D to develop Lanternn by Valerann, an innovative, state of the art traffic management software platform. The system enhances traffic management through its proprietary Real-Time Fusion Engine that analyses real time and historical data. Valerann continues to work with road operators worldwide to empower them to become future ready data players in the world of mobility. www.valerann.com



VERSILIS INC

With more than 25 years of experience in highway safety, Versilis has developed various automated access control solutions that meet the highest industry standards. Road authorities across North America have adopted the solutions to increase their traffic operations' safety and efficiency. With motorist and operator safety in mind, Versilis traffic engineers bring experience and ingenuity to each project, from the planning stage, all the way to installation, testing and training. www.versilis.com

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EVENTS CALENDAR

SEPTEMBER

BOARD OF DIRECTORS & COMMITTEE MEETINGS

September 16, 2022 | Hilton Austin | Austin, TX

90TH ANNUAL MEETING & EXHIBITION

September 17-20, 2022 | Hilton Austin | Austin, TX

www.IBTTA.org/austin

OCTOBER

GLOBAL SUMMIT

October 23-25, 2022 | Clayton Hotel Burlington Road | Dublin, Ireland

www.IBTTA.org/dublin

2023

BOARD OF DIRECTORS & COMMITTEE MEETINGS

January 18-20, 2023 | Hotel Colonnade | Coral Gables, FL

LEADERSHIP ACADEMY

February 12-17, 2023 | Westin City Center | Washington, DC

www.IBTTA.org/leadershipacademy

2023 TECHNOLOGY SUMMIT

April 29-May 2, 2023 | JW Marriott | Indianapolis, IN

www.ibtta.org/indy

BOARD OF DIRECTORS & COMMITTEE MEETINGS

June 2-3, 2023 | Hyatt Regency | Salt Lake City, UT

www.ibtta.org/saltlake

ROAD USAGE CHARGING AND FINANCE CONFERENCE

June 4-6, 2023 | Hyatt Regency | Salt Lake City, UT

Additional meetings will be added as details are confirmed.
Please check our website for updates.

www.ibtta.org/events