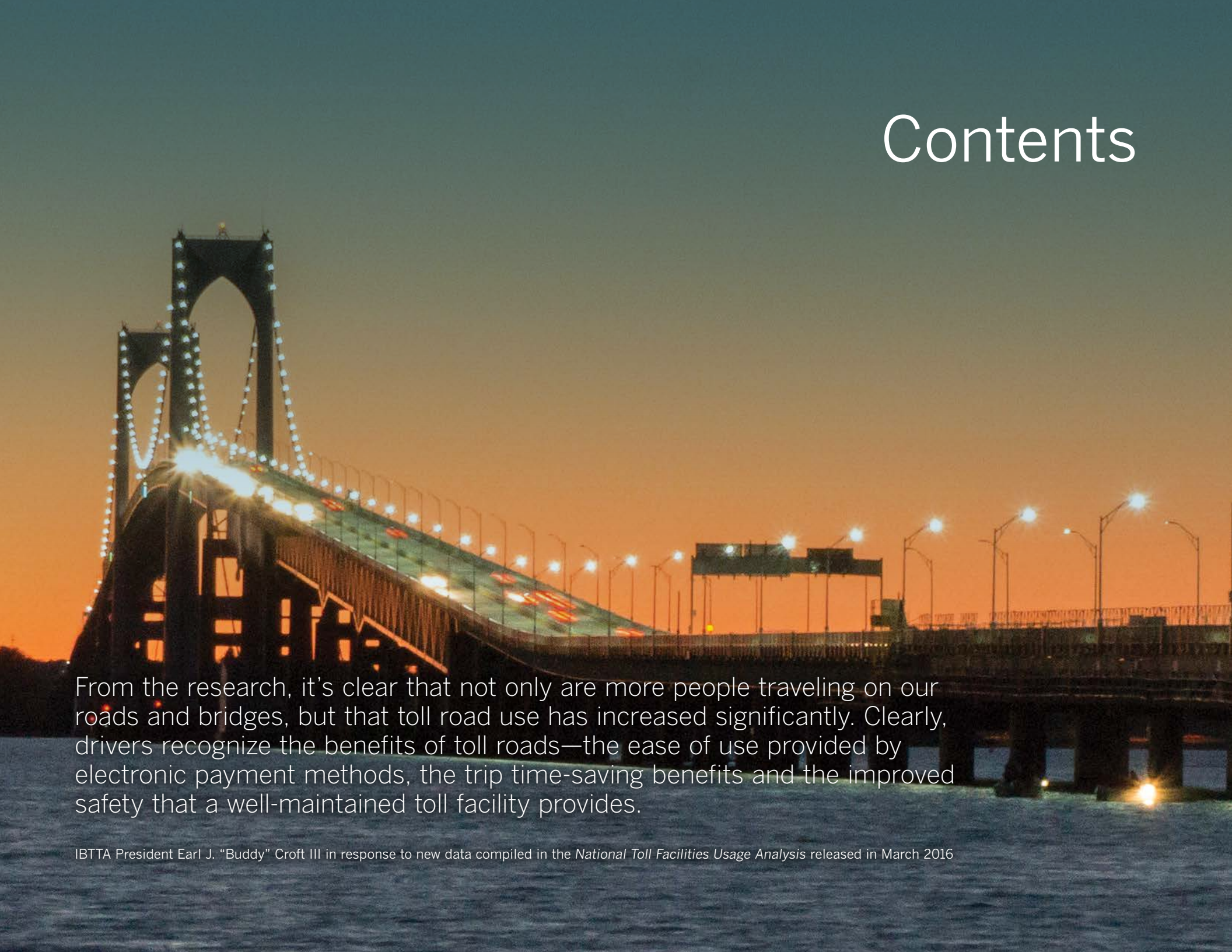


2016 REPORT TO MEMBERS

people partnerships & progress

IBTTA
TOLLING. MOVING SMARTER.

Contents



From the research, it's clear that not only are more people traveling on our roads and bridges, but that toll road use has increased significantly. Clearly, drivers recognize the benefits of toll roads—the ease of use provided by electronic payment methods, the trip time-saving benefits and the improved safety that a well-maintained toll facility provides.

IBTTA President Earl J. “Buddy” Croft III in response to new data compiled in the *National Toll Facilities Usage Analysis* released in March 2016

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Reflections from the President

Earl "Buddy" Croft, who served as IBTTA President in 2016, is the Executive Director of the Rhode Island Turnpike and Bridge Authority (RITBA). In this role, he oversees the finances, operations and maintenance of the state's four largest bridges, including the Newport Pell Bridge, the largest suspension bridge in New England. With a \$32 million operating budget, Buddy also coordinates transportation activities with partner agencies, municipalities, and tourism entities, including the Rhode Island Department of Transportation (RIDOT) and the City of Newport.

Since becoming Executive Director, Buddy has modernized the agency's tolling operations to include the introduction of the E-ZPass system and Open Road Tolling. He has also moved to create important safety initiatives, including installing a permanent median barrier on the Newport Pell Bridge to prevent crossover accidents, a \$6 million-dollar initiative that will protect many lives. Under his tenure RITBA has spent approximately \$180 million in construction and maintenance repairs to its bridges since 2006.

As a member of IBTTA's Board of Directors, Buddy actively served the association as a member of several committees including as Chairman of the IBTTA Audit Committee, on the Association's Finance Committee, and as a member of the Government Affairs Committee. Buddy also serves on the Executive Board of the E-ZPass Group made up of 16 states and 38 agencies from the New England, Mid-Atlantic and Midwest regions of the United States.

During his tenure as IBTTA President, Buddy is most proud of the new connections he helped to cultivate. Among the many highlights this year, include:

- Positioning IBTTA as a thought leader within the transportation community through November's Visioning Summit, which convened leaders from 18 national transportation associations.

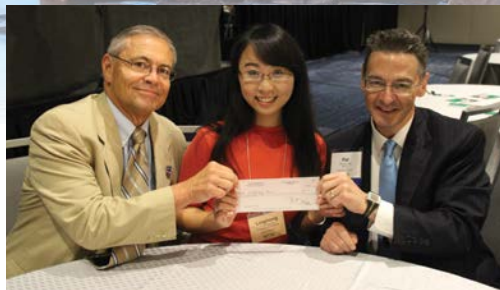
- Completing the Fort Adams Community Service Project, which generated enormous good will throughout the Newport community and among IBTTA members.
- Expanding the size and reach of the IBTTA Foundation, to include new research funding and scholarship opportunities for college students with an interest in transportation and related fields.
- Hosting several blockbuster summits this year, including IBTTA's Annual Meeting in Denver and the Summit of the Americas in Mexico City.
- Convening the association's past presidents and the Platinum Sponsors Advisory Council to help engage these important stakeholders in more meaningful ways.
- Moving the U.S. closer to nationwide interoperability.

Buddy credits this success to "terrific teamwork" among IBTTA members, staff, fellow Board officers, past presidents, platinum sponsors and his colleagues at RITBA. In his own words, Buddy sees "teamwork as the center of who I am. It's truly been the highlight of my professional career to have had the opportunity to lead the IBTTA forward on many fronts this year."



“Much of IBTTA’s success this year has been rooted in teamwork, collaboration and new connections. When we all work together, we will see results.”

Buddy Craft





Moving the Industry Forward

MOVING TOWARD NATIONWIDE INTEROPERABILITY

In January 2016, the Federal Highway Administration (FHWA) issued a Notice of Funding Opportunity (NOFO), to provide up to \$1.5 million to support the National Interoperability (NIOP) testing process in which the tolling industry and IBTTA have been engaged. IBTTA has been working since 2010 to advance an industry-wide process to establish a nationally interoperable toll payment system. IBTTA has made a commitment to Congress to identify a protocol and

set of business rules that every agency in the U.S. can adopt over a period of time to bring value to their customers.

In September 2016, the FHWA approved a cooperative agreement with IBTTA for funding in support of NIOP testing. Conformance testing of three candidate protocols has been completed and with the contributions of both industry members and the FHWA, lab and physical testing of the protocols are proceeding. IBTTA will continue to work closely with all stakeholders as this ground-breaking work moves forward.

BRINGING INDUSTRY LEADERS TOGETHER

On November 30, 2016, IBTTA hosted a Transportation Visioning Summit in Washington, DC that brought together CEOs from 18 of the nation's leading transportation organizations and associations. This inaugural summit grew out of numerous individual meetings that IBTTA President Buddy Croft and CEO Pat Jones held with transportation leaders throughout 2016. The goal of this Summit was to develop a vision for a federal transportation program that addresses current and future challenges.

This conversation focused on the future of transportation and the good that can be accomplished by working together. The rich discussion touched on several hot topics, including autonomous vehicles and other innovations in technology; the role of government in technology and standard setting; climate, energy, sustainability, smart cities, and smart design; congestion; moving freight; safety; access and equity; data needs; funding; and making the case for infrastructure investment.



Though some differences emerged when considering priorities, most participants did express the need for coherent political leadership on transportation investment—from Congress and the President. Attendees agreed that this summit was extremely useful and that future meetings should be convened at regular intervals.



GIVING BACK TO THE COMMUNITY: RESTORING FORT ADAMS



On May 15, more than 200 volunteers—including 65 IBTTA members—participated in the association's annual service project, which took place at Fort Adams, a historic Revolutionary War coastal fortification located in Newport, Rhode Island. Hosted in connection with IBTTA's Maintenance & Roadway Operations Workshop, volunteers spent the day painting, clearing trees, raking leaves and pruning bushes in an effort to reopen this neglected landmark. Fittingly, the project involved building a new footbridge across the outer moat to make the Castle Redoubt accessible. IBTTA volunteers

were joined in this work by the local Boys and Girls Clubs in Newport County and the James L. Maher Center, a group that integrates individuals with developmental challenges into the workforce.

Many thanks go to IBTTA's volunteers and sponsors who raised \$50,000 to support this one-of-a-kind community service project. In recognition of those that made this restoration possible, Fort Adams has made a commitment to employing individuals from the Maher Center once this historic landmark is fully restored and open to the public.



EXPANDING RESEARCH AND SCHOLARSHIP SUPPORT

This year, the IBTTA Foundation moved ahead with new initiatives to better position the association to play a larger role in advancing strategic research and encouraging careers in the tolling industry. Foundation board member Mike Heiligenstein is leading this new research effort by mobilizing a group of universities specializing in transportation research to assist the industry in tackling emerging issues. The Foundation is moving to create a research fund to support this initiative.

The Foundation is also working on plans to roll out a new scholarship program. Through a competitive selection process, the IBTTA Foundation will award scholarships to undergraduate students who are working towards a transportation related degree at an accredited university. While there is no academic program geared specifically toward “tolling,” it is our hope that with a scholarship from IBTTA and exposure to this highly specialized field, these recipients will gravitate toward our industry upon graduation and carry on IBTTA's goals and vision.

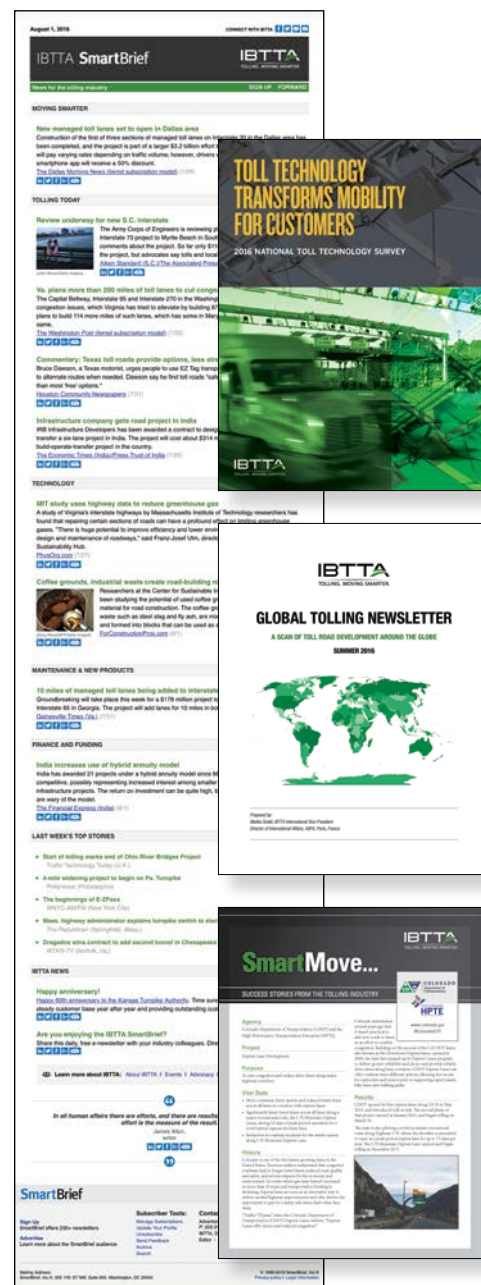
SHARING NEWS AND INFORMATION

IBTTA serves a primary source of news and information for tolling professionals looking to stay abreast of the latest industry developments. The association's website—www.IBTTA.org—is the gateway to publications, data and social media engagement opportunities, including the following:

- IBTTA released two state of the industry reports this year, including the **National Toll Facilities Usage Analysis**, which detailed the record-breaking growth in the use of toll roads, bridges, and tunnels from 2014 and 2015, and the **Toll Technology Transforms Mobility for Customers** survey, which showcased the latest data on how advancements in electronic tolling are rapidly transforming transportation and tolling by providing greater mobility, flow of traffic and safety to drivers. Both reports garnered widespread coverage in the national media including stories in *USA Today*, the *Atlanta Journal Constitution* and ABC News.
- Introduced this year, the **IBTTA SmartBrief** e-newsletter features timely news stories about the tolling and transportation industries from around the world as well as information about upcoming industry events and opportunities.

- **International Tolling Newsletter:** Published up to three times a year, this publication serves as the authoritative source for the latest news and developments on tolling operations around the world.
- **Tolling Points Blog:** This year, almost 90 posts were made on the IBTTA blog covering a wide variety of industry hot topics and emerging issues. The discussions stimulated by the blog postings touched on a range of national and international concerns.
- **SmartMove Success Stories:** This series highlights innovative and proven solutions to funding and maintaining transportation infrastructure. Currently more than a dozen success stories are featured from agencies across the US and international submissions from Dubai, Italy and Japan.
- **Social Media:** IBTTA provides a variety of social media platforms to engage members and the public on issues important to the tolling industry. These platforms include Facebook, Twitter, LinkedIn, YouTube and Instagram.

In addition to these resources, members can access thematic reports from IBTTA meetings and conferences, an archive of special reports, fact sheets and other valuable information.



Collaborating on Public Policy

IBTTA leads advocacy efforts on Capitol Hill and with federal agencies to promote a favorable policy environment for tolling. The association took several actions to promote its policy agenda this year, in addition to supporting state level initiatives, which are helping to advance the industry at the local and regional levels.

CBO REPORT ON THE ECONOMIC BENEFITS OF TOLLING

In February 2016, IBTTA applauded a new Congressional Budget Office (CBO) report, titled **Approaches to Making Federal Spending More Productive**, which examined the economic advantages of tolling as a means of funding the nation's highway system. The nonpartisan agency's study was initiated to identify new ways to make federal highway spending more productive since gasoline tax revenues that support the Highway Trust Fund have fallen critically short of needs, requiring lawmakers to shift billions of dollars into the fund from other sources. Tolling emerged as one of the primary alternative funding approaches examined in the report.

In a press statement, IBTTA Executive Director and CEO Patrick D. Jones stated that "it is encouraging to see the economic benefits of tolling explored in such a clear-eyed manner. The CBO's

objective, impartial analysis of tolling as one funding method provides valuable insights in today's world where every highway dollar counts. We hope members of Congress will use the information from this report to ease the current restrictions that limit the economic and mobility benefits of toll roads."

MOVING AMERICA FORWARD

IBTTA's *Moving America Forward* public awareness campaign entered its fourth year in 2016, continuing with the original goal of helping to elevate and promote the benefits of tolling. IBTTA moved into a more mature phase of the campaign by undertaking efforts to release industry-wide reports to successfully position the tolling industry's role in our nation's transportation system. With the release of the **National Toll Facilities Usage Analysis**, a national audience was made aware of the record-breaking rate of growth happening on toll roads which put usage on pace to double in less than 10 years. Also released, the industry's first-ever national toll technology survey, **Toll Technology Transforms Mobility for Customers**, underscoring the industry's technological advancements revolutionizing transportation by increasing mobility, reducing congestion, improving safety and reliability while boosting economic growth.



Learning, Connecting, Thriving



84TH ANNUAL MEETING & EXHIBITION: PEOPLE, PARTNERSHIPS & PROGRESS

September 11-14, 2016

Denver, Colorado

Hosted by E-470 Public Highway
Authority

CHIEF MEETING ORGANIZERS:

Frank McCartney, WSP | Parsons
Brinckerhoff; Jason Myers,
E-470 Public Highway Authority;
Kathryn O'Connor, Rhode Island
Turnpike and Bridge Authority

More than 700 industry leaders convened in Denver for IBTTA's annual meeting and exhibition, which attracted participants and speakers from 22 countries. This highly anticipated, international event featured presentations from Colorado Lieutenant Governor Donna Lynne, state transportation officials, award-winning photographer, writer and filmmaker Pete McBride of Colorado as well as transportation leaders from the U.S. and around the world. Reflecting the theme *People, Partnerships & Progress*, this year's program focused on the evolution of tolling, managing threats to customer data, preparing for technological advances and identifying the changes that lie ahead.

The People portion of the program included sessions on putting big data to work, exploring content marketing and new media in the digital age, and ensuring privacy, security and data protection. The sessions under the Partnerships theme focused on funding and financing, telling Colorado's tolling story of collaboration and partnership and partnering to improve customer service. The Progress portion concentrated on identifying what's next after the FAST Act, reviewing interoperability progress across the globe and driving sustainability through technology.





TRANSPORTATION POLICY AND FINANCE SUMMIT

March 13–15, 2016

Washington, DC

CHIEF MEETING ORGANIZER:

Nick Grieshaber, Pennsylvania Turnpike
Commission

This popular Washington, DC based event welcomed colleagues across the transportation industry to discuss key policy issues and finance challenges

confronting toll agencies, concessionaires, and state departments of transportation. During this Summit, experts from the public and private sectors explored an array of solutions to the transportation funding crisis, including the move toward Road Usage Charging, which is currently being explored in 29 states. Featured topics included greater reliance on tolling and policies that promote investment in the types of roads that will yield the biggest improvements in mobility and economic growth.

MAINTENANCE & ROADWAY OPERATIONS WORKSHOP

May 15–17, 2016

Newport, Rhode Island

CHIEF MEETING ORGANIZER:

Peter Merfeld, Maine Turnpike Authority

At this popular annual event, maintenance and operations professionals from across the tolling industry came together to share ideas and best practices to help them better serve and provide value to their customers. Industry leaders

recognize that collaboration with the entities and agencies that surround tolling facilities is key as most customers do not know where one jurisdiction ends and another takes over. Sessions focused on maintaining mobility while making improvements, the use of drones in conducting bridge inspections, and roadside safety innovations, tools and policies. For more details on the annual service project held in conjunction with this event, see page 5.



SUMMIT ON ALL-ELECTRONIC TOLLING, MANAGED LANES & INTEROPERABILITY

July 24-26, 2016

Boston, Massachusetts

CO-CHIEF MEETING ORGANIZERS:

Tom Delaney, Atkins N.A., and
Mary Jane O'Meara, HNTB Corporation

More than 650 individuals from 17 countries gathered for IBTTA's annual Summit on All-Electronic Tolling, Managed Lanes & Interoperability to explore how the latest advances in technology, communications and business processes can help move the tolling industry forward. For the first time, this Summit included a series of innovative "Tech Talks," which featured a rapid-fire series of 15-minute presentations given by thought leaders and problem solvers seeking robust dialogue and dynamic solutions to shared challenges. The Summit concluded with a battle of ideas featuring Northeastern University Engineering Students

seeking the most innovative ideas to combine user-financing and intelligent mobility solutions.

SUMMIT OF THE AMERICAS IN MEXICO CITY

October 16-18, 2016

Mexico City, Mexico

CO-CHIEF MEETING ORGANIZERS:

Rick Nelson, Texas Department
of Transportation, and Dan Toohey,
Kapsch TrafficCom

The first IBTTA meeting hosted in Mexico, this Summit focused on a wide range of industry concerns, including border crossing, international trade, freight tracking, truck tolling, security, mobile enforcement, interoperability and the Mexican concession model. General sessions allowed participants to take a deeper look at tolling in Central and South America, safety and security concerns, innovation and technology shaping the future, approaches to conducting business in Mexico and heavy traffic

vehicle tolling in the Americas. The Summit's diverse content was designed specifically for professionals engaged in toll road operations, customer service, public relations and financial operations.

WEBINAR SERIES

IBTTA's popular webinar series provides an important source of professional development and information sharing for members worldwide. This year's offerings focused on topics of concern to a wide cross-section of association members. In 2016, the following new and archived Webinars were available for member access:

- Violators and Violations – The Eternal Tolling Challenge
- Express Lane Implementations – The Good, The Bad and The Ugly
- Getting Positive News Coverage: Media Training 201
- Interagency Emergency Operations Support

- The Importance of an Effective Investor Relations Program
- Website & Social Media Strategies and Analytics
- Internal & External Crisis Communications
- Autonomous & Connected Vehicle

All webinars and supporting materials are archived on IBTTA's website and may be viewed on demand.

Thematic reports and presentations are available for IBTTA members at www.IBTTA.org/presentations.



Leading the Way

IBTTA LEADERSHIP ACADEMY



Funded in part by contributions to the IBTTA Foundation, the Leadership Academy is the premiere executive development program for senior-level managers aspiring to top leadership positions in the tolling industry. Selected through a competitive application process, participants are immersed in an intense, week-long course taught by internationally recognized toll industry leaders, business partners, consultants and educators. The curriculum is designed to include all facets of toll agency operations including administration, finance, customer service, communications, business development and board relations.

This year, 36 IBTTA members attended the Leadership Academy's Executive Development Program held February 7–12 in Washington, DC. Members of the Leadership Academy Class of 2016 are:

Steven Abendschein, Stantec Consulting Services, Inc.

Pedro Amado Bento, Q-Free

Joseph Averkamp, Xerox State Government Solutions

Benjamin Baker, Kentucky Transportation Cabinet

Christopher Burke, Parsons

Jennifer Charlebois, Washington State Department of Transportation

Mike Chesney, Transportation Corridor Agencies

Jack Damrill, Oklahoma Turnpike Authority

Willy Dommen, Accenture

Joe Fischetti, MTA Bridges and Tunnels

Tim Garrett, HNTB Corporation

Chris Hall, TransCore, LP

Rebekah Hammond, Kyra Solutions, Inc.

Jessica Handcock, Traffic Technologies, Inc.

Jeff Hurt, SWC Group

Kristen Johnson, Transurban

Auden Kaehler, WSP | Parsons Brinckerhoff

Anthony Kimmey, Burns & McDonnell Engineering Company, Inc.

Donald Klingensmith, Pennsylvania Turnpike Commission

Cheryl Lewis-Orr, Maryland Transportation Authority

Stephen Lockhart, Star Systems International, Ltd.

Ram Maddali, CDM Smith

Bridget Malinowski, AECOM

Chris Matta, Ohio Turnpike and Infrastructure Commission

David May, Tampa-Hillsborough Expressway Authority

Mahmood Mohammed, HAKS Engineers, Architects and Land Surveyors, P.C.

Armindo Monteiro, MTA Bridges and Tunnels

Christina Palestine, E-470 Public Highway Authority

David Raines, RS&H

Frank Robinson, Halifax Harbour Bridges

Stuart Rogers, Kapsch TrafficCom

Linda Sexton, Texas Department of Transportation

Jennifer Sherblom, Perceptics, LLC

Scott Sorensen, Faneuil, Inc.

Timothy Sturick, Thousand Islands Bridge Authority

Tracey Trexel, Cubic Transportation Systems



Front row seated (left to right): Bridget Malinowski, Jennifer Sherblom, Christina Palestine, Jennifer Charlebois, Tracey Trexel, Kristen Johnson, Rebekah Hammond, Jessica Handcock, Linda Sexton, Cheryl Lewis-Orr. *Middle row standing (left to right):* Chris Hall, David May, Chris Matta, Tim Garrett, Joseph Averkamp, Willy Dommen, Armindo Monteiro, Jeff Hurt, Donald Klingensmith, Joe Fischetti, Steven Abendschein. *Back row standing (left to right):* Scott Sorensen, Christopher Burke, David Raines, Stuart Rogers, Auden Kaehler, Mike Chesney, Frank Robinson, Pedro Amado Bento, Jack Damrill, Timothy Sturick, Mahmood Mohammed, Anthony Kimmey, Ram Maddali, Stephen Lockhart, Benjamin Baker.

2016 TOLL EXCELLENCE AWARDS



IBTTA's Toll Excellence Awards recognize the very best the international tolling industry has to offer. Each year, IBTTA honors member organizations whose creative, innovative, and positive programs set a new standard of excellence. By providing wide recognition for a job well done, the Toll Excellence Awards also speed up the transmission of new ideas and emerging practices throughout the industry. With winners in six categories, the industry's highest recognition, the President's Award, is bestowed on one outstanding honoree each year. Selected by the Awards Committee following a competitive application process, the 2016 winners include:





PRESIDENT'S AWARD WINNER

CUSTOMER SERVICE & MARKETING OUTREACH

North Carolina Turnpike Authority

PROJECT: Multi-Agency Interoperability



After the North Carolina Turnpike Authority (NCTA) achieved toll interoperability with Florida's SunPass® and Georgia's Peach Pass®, its next step was to promote NC Quick Pass® transponder ownership as an opportunity for customers to pay lower toll rates across the U.S. East Coast. NCTA's outreach campaign offered users a more convenient customer experience, with quicker, more reliable mobility than they would achieve without a transponder. In April 2015, the Authority formed a promotional partnership with the Durham Bulls—the most popular sports franchise in the North Carolina Triangle—to build customer and brand awareness. The campaign focused on reaching Bill by Mail customers through a table presence at 11 Bulls games between April and August, combined with print advertising and email marketing, in an effort to promote transponder use. In June, NCTA and NC Quick Pass® began distributing 200,000 promotional inserts with paper invoices to North Carolina residents offering savings up to 35 percent, plus the ability to pay tolls effortlessly in North Carolina, Florida, Georgia and all states within the E-ZPass® Group. IBTTA's President Buddy Croft presented NCTA the 2016 President's Award.

ADMINISTRATION & FINANCE

Florida's Turnpike Enterprise

PROJECT: I-4 Connector



When Florida's Turnpike Enterprise opened the I-4 Connector in Tampa Bay on January 6, 2014, it marked a milestone in the effort to reduce local congestion in the face of surging economic growth and increased truck traffic from the region's busy port. The limited-access, all-electronic toll road links Interstate 4 and State Road 618

by providing direct access to the port with one-of-a-kind truck-only lanes. Over the next two years, traffic along the I-4 Connector has more than doubled from 22,000 to 48,000 vehicles per day, demonstrating how effectively the project has eased congestion. The diversion has reduced accidents on two key city streets by nearly 60 percent, and the availability of a free-flow, high-speed route means trucks travelling from I-4 to I-75 will not see a red light until they get to Canada. The project was funded by federal, state and county governments, with essential support from \$80 million in Turnpike revenue bonds. In FY 2015, project revenue of \$8.8 million greatly exceeded the initial forecast of \$6.1 million.

SOCIAL RESPONSIBILITY

The Foothill/Eastern Transportation Corridor

PROJECT: State Route 241 Wildlife Safety Fence Improvement Project



Transportation Corridor Agencies

The Foothill/Eastern Transportation Corridor Agency (F/ETCA) is looking forward to a 90 to 95 percent reduction in vehicle-animal collisions along a six-mile stretch of the State Route 241 Toll Road in Orange County, California, after installing safety fencing and new wildlife undercrossings for cougars, coyotes,



bobcats and deer. The safety fence ranges from 10 to 12 feet in height and features an 18-inch "outrigger" to prevent wildlife from climbing over. It is buried 24 inches to prevent animals from digging under, and is placed in close proximity to the roadway shoulder to minimize native habitat loss. Working with experts at the University of California-Davis, F/ECTA conducted a two-year field evaluation of undercrossings, then identified enhancements that would improve wildlife connectivity throughout the area. The assessment involved GPS tracking of cougar movements throughout the Santa Ana Mountain Range, use of cameras to track wildlife use of existing undercrossings and consultations with the U.S. Fish and Wildlife Service and the California Department of Transportation, among other stakeholders.

TECHNOLOGY

Harris County Toll Road Authority

PROJECT: Prohibited Vehicle Rapid Alert System (RAS)



The Harris County Toll Road Authority introduced its Prohibited Vehicle/Rapid Alert System (RAS) as a spin-off project after replacing its legacy toll enforcement infrastructure. The original system upgrade included development and/or augmentation of software applications that generate an alert directly to law enforcement whenever a vehicle from a list of top 500 prohibited vehicles passes through a tolling gantry. For years, HCTRA knew the standard toll enforcement strategy of having deputies





watch out for violators was becoming less effective. The authority had introduced video tolling for large corporate accounts, and allows customers to temporarily add vehicles to existing accounts without obtaining a transponder. The system also accommodates non-revenue accounts for disabled veterans and access for unmarked emergency vehicles. The added feature makes it feasible for a deputy to locate and stop a habitual violator to issue a citation. It also targets violators who try to avoid paying their outstanding HCTRA tolls and continue using the tollway by obtaining a valid toll transponder from another regional tolling agency.

TOLL OPERATIONS, MAINTENANCE & ENGINEERING

Central Florida Expressway Authority
PROJECT: Wrong-Way Pilot Driving Program

**CENTRAL
 FLORIDA
 EXPRESSWAY
 AUTHORITY**

Wrong-way driving (WWD) is an immediate, urgent hazard on any roadway, whenever and wherever it occurs. To address this concern, the Central Florida Expressway Authority (CFX) became the first agency to pilot Rapid Rectangular Flashing Beacons (RRFBs) as a WWD

countermeasure. CFX initially set out to develop a better understanding of issues related to wrong-way driving as a first step in deploying systems to minimize or mitigate the problem. Its research focused on equipping Wrong Way signs with RRFBs, radar or laser detection and cameras to detect, deter and prevent wrong-way drivers from using exit ramps to enter the toll road mainline. Its evaluation of RRFBs involved testing on five ramps along the roadway network, one on State Road 528 and four on State Road 408.



PRIVATE SECTOR INNOVATION

CDM Smith

PROJECT: National Interstate Tolling Analysis Tool

**CDM
 Smith**
 cdmsmith.com

CDM Smith developed its National Interstate Tolling Analysis Tool (NITAT) for the U.S. Federal Highway Administration (FHWA) as part of a wider interstate tolling study. This computer traffic model, the only one of its kind, is a sketch-level planning resource for modelling potential traffic and revenue impacts of tolling segments of the interstate system that are currently toll-free. NITAT allows users with no modelling background to run scenarios for the entire interstate system, for 48 individual states and for most other major highways and tolled facilities. It disaggregates more than 3,000 counties and urban areas across the United States into nearly 7,500 traffic zones and incorporates National Bridge Inventory data for major bridges on the interstate system. The model can compare different options for toll rates, deliver separate analyses for car and truck impacts, estimate capital and operating costs associated with toll collection and assess impacts on network performance, safety and fuel consumption.



NEW HONORARY MEMBERS

Honorary membership is the highest honor that IBTTA can bestow on any individual for “outstanding contribution in the furtherance of the purpose and objectives of the association.” Recognized at the Annual Meeting in September, this year IBTTA welcomed the following new Honorary Members:

ALAIN ESTIOT

Alain Estiot is the founder and CEO of AETC, a boutique consulting firm focused on mobility issues. Until August 2015, Alain was Managing Director, Chief Quality Officer and Compliance-Officer of Toll Collect GmbH in Berlin, Germany. Since January 2005, Toll Collect developed, financed and has been operating the first GPS/GNSS toll system in the world. Alain previously served as COO of Cofiroute Corporation, the US-affiliate of Cofiroute, and Deputy Managing Director of CPTC in Los Angeles. CPTC had the franchise for the 91-Express Lanes, the first worldwide highway with an automatic multilane toll system and the pioneer in 1995 of the Value Pricing concept. Alain served as an IBTTA Chief Meeting Organizer for meetings held in São Paulo, Brazil and Berlin, Germany.

MIKE HEILIGENSTEIN

Mike Heiligenstein is the Executive Director of the Central Texas Regional Mobility Authority, an independent government agency tasked in 2002 with designing a modern, regional transportation network for Central Texas. Based in Austin, the Mobility Authority is developing a multi-modal transportation system designed to meet the diverse, long-term mobility needs of this fast-growing region while protecting and strengthening the quality of life its residents enjoy. He is the Past President (2014) of IBTTA and serves on the advisory Board of the Texas A&M Transportation Institute as well as several other committees and working groups dealing with transportation issues. Before taking the helm at the Mobility Authority, Mike served the citizens of Williamson County for 23 years as a public official. During his years of public service, he initiated \$1.5 billion in capital improvement projects.

JOHN McCUSKEY

John McCuskey is the former Executive Director of the E-470 Public Highway Authority in Colorado. Prior to this appointment in 2010, he was the Director of Finance and Deputy Executive Director for E-470. His background includes project finance as an investment banker as well as toll road operations. Before E-470, he was an independent consultant. His work included toll road financial analysis, and he also prepared toll operations studies and management plans and advised on operations both nationally and internationally. John previously served on the IBTTA Board of Directors.



HONORARY MEMBERS

Michael C. Ascher
 Anthony J. Barber
 José Manuel Basañez
 Stanley J. Britton
 James Brookshire
 Paul Burnette
 Susan A. Buse
 Lisa C. Callahan
 Carney J. Champion
 Jose Luis Ceron
 Oliver K. Compton, Jr.
 Santiago Corral
 James A. Crawford
 Ronald Cunningham
 Henri Cyna
 Robert L. Davis
 Ronald J. Delaney
 Antonio Diez de Rivera
 John T. Driscoll
 James L. Ely

Alain Estiot
 Robert J. Farrell
 Luis Ferreiro
 Jack Finn
 William J. Flanagan
 R. D. Fogo
 E. R. Foley
 Daniel W. Greenbaum
 Roger Ginocchi
 Jordi Graells
 James Griffin
 John J. Hassett
 Mike Heiligenstein
 Robert G. Horr III
 Frank A. Howe
 Allan V. Johnson
 Roy G. Lancaster
 Vince Leonetti
 Lawrence J. Lewis
 Dale W. Luehring

Burt H. Marshall
 Jorge Masiá Mas-Bagá
 Stephen F. Mayer
 Frank G. McCartney
 John McCuskey
 William J. Miller, Jr.
 Jean Millier
 Kodo Ogata
 Mary Jane O'Meara
 K. C. Pearson
 Ken Philmus
 D. Rafael del Pino y Moreno
 Jean-François Poupinel
 Howard M. Reily
 Edward Regan
 Vito Rocco
 Lawrence A. Rubin
 W. A. Rusch
 Franco Schepis
 Neil Schuster

Gordon Slaney
 Steven Snider
 Charles H. Taylor
 Mary E. Turkington
 Paul E. Violette
 Russell I. Wilcox
 Kary H. Witt
 John R. Woodruff
 Harold W. Worrall
 Norman H. Wuestefeld
 George P. Zilocchi
 Bruce Zimmerman

Advancing IBTTA's Mission

IBTTA 2016 BOARD OF DIRECTORS*

The Board of Directors sets the strategic direction of the association. The Board of Directors is comprised of five officers and 20 directors. Officers serve a one-year term and directors serve staggered four-year terms.

(*This is the board as constituted in 2016.)



Executive Committee



Earl J. "Buddy" Croft III
President

Executive Director
Rhode Island Turnpike
and Bridge Authority
Jamestown, RI



Tim Stewart
Second Vice President

Executive Director
E-470 Public Highway Authority
Aurora, CO



Javier Rodriguez, P.E.
Immediate Past President

Executive Director
Miami-Dade Expressway Authority
Miami, FL



Emanuela Stocchi
First Vice President

Director of International Affairs
AISCAT (Associazione Italiana
Società Concessionarie
Autostrade e Trafori)
Rome, Italy



Malika Seddi
International Vice President

Director of International Affairs
ASFA (Association
Professionnelle Autoroutes
et Ouvrages à Péage)
Paris, France



Patrick D. Jones
Executive Director & CEO

IBTTA
Washington, DC

Directors

Nic Barr

Transurban
Alexandria, VA

Gerald Carrigan

North Texas Tollway Authority
Plano, TX

Mark Compton

Pennsylvania Turnpike Commission
Middletown, PA

Andrew Fremier

Bay Area Toll Authority, Metropolitan
Transportation Commission
San Francisco, CA

Cedrick Fulton

The Port Authority of New York
& New Jersey
New York, NY

Diane Gutierrez-Scaccetti

Florida's Turnpike Enterprise
Ocoee, FL

Samuel Johnson

Transportation Corridor Agencies
Irvine, CA

John Lawson

Virginia Department of Transportation
Richmond, VA

Peter Merfeld

Maine Turnpike Authority
Portland, ME

Jean Mesqui

ASFA (Association Professionnelle
Autoroutes et Ouvrages à Péage)
Paris, France

Joseph Mrozek

New Jersey Turnpike Authority
Woodbridge, NJ

Katie Nees

Texas Department of Transportation
Austin, TX

Julián Nuñez

SEOPAN
Madrid, Spain

Klaus Schierhackl

ASFINAG
Vienna, Austria

Benton Tempas

Northwest Parkway LLC
Broomfield, CO

Christopher Tomlinson

State Road & Tollway Authority
Atlanta, GA

Gary Trietsch

Harris County Toll Road Authority
Houston, TX

Cynthia Ward

Metropolitan Washington Airports
Authority
Fairfax, VA

Anthony Yacobucci

Ohio Turnpike and Infrastructure
Commission
Berea, OH



Past Presidents

Javier Rodriguez, 2015*

Miami-Dade Expressway Authority

Mike Heiligenstein, 2014*

Central Texas Regional Mobility Authority

Robert G. Horr III, 2013*

Thousand Islands Bridge Authority

Jordi Graells, 2012*

Abertis USA Corporation

Frank G. McCartney, 2011*

Delaware River Joint Toll Bridge Commission

Edward J. DeLozier, 2010-2011

Honorary President
E-470 Public Highway Authority

Steven Snider, 2010*

Halifax Harbour Bridges

Kary H. Witt, 2009*

Golden Gate Bridge, Highway and Transportation District

Susan A. Buse, 2008*

North Texas Tollway Authority

James L. Ely, 2007*

Florida's Turnpike Enterprise

Santiago Corral, 2006*

Autopista Vasco-Aragonesa, C.E.S.A

Stephen F. Mayer, 2005*

Buffalo & Fort Erie Bridge Authority

Jean-François Poupinel, 2004*

COFIROUTE

Vincent L. Leonetti, 2003*

South Jersey Transportation Authority

Harold W. Worrall, P.E., 2002*

Orlando-Orange County Expressway Authority

Paul E. Violette, 2001*

Maine Turnpike Authority

Luis Ferreira, 2000*

AUMAR

Mary Jane O'Meara, 1999*

Massachusetts Port Authority

James K. Brookshire, Jr., 1998*

Chesapeake Bay Bridge & Tunnel Commission

Lisa C. Callahan, 1997*

Kansas Turnpike Authority

Carney J. Campion, 1996*

Golden Gate Bridge, Highway and Transportation District

Franco Schepis, 1995*

Autostrade Concessioni e Costuzioni Autostrade, S.P.A.

Russel I. Wilcox, 1994*

Thousand Islands Bridge Authority

Anthony J. Barber, 1993*

The Port Authority of New York and New Jersey

Ronald J. Delaney, 1992*

Detroit & Canada Tunnel Corporation

George P. Zilocchi, 1991*

New Jersey Highway Authority

Henri Cyna, 1990*

COFIROUTE

Allan V. Johnson, 1989*

Ohio Turnpike Authority

Robert J. Farrell, 1988*

New York State Thruway Authority

John R. Woodruff, 1987*

Delaware River Port Authority

Jose Luis Ceron, 1986*

Autopistas Del Mare Nostrum, C.E.S.A.

R.D. Fogo, 1985*

Kansas Turnpike Authority

Roger Ginocchio, 1984*

New Jersey Turnpike Authority

Dale W. Luehring, 1983*

Golden Gate Bridge, Highway and Transportation District

K.C. Pearson, 1982*

Massachusetts Port Authority

Vito Rocco, 1981*

AISCAT

Stanley J. Britton, 1980*

Massachusetts Turnpike Authority

Roy G. Lancaster, 1979*

Detroit International Bridge Company

Jorge Masiá Mas-Bagá, 1978*

Autopista Concesionaria Española SA

Howard M. Reily, 1977*

Texas Turnpike Authority

Lawrence J. Lewis, 1976*

The Port Authority of New York and New Jersey

Phillip B. Lee, 1975

New York State Thruway Authority

William J. Flanagan, 1974*

New Jersey Turnpike Authority

E.R. Foley, 1973*

California Toll Bridge Authority

John T. Driscoll, 1972*

Massachusetts Turnpike Authority

William J. Miller, Jr., 1971*

Delaware River & Bay Authority

Franklin V. Summers, 1970

Pennsylvania Turnpike Commission

Robert A. Tillett, 1969

Indiana Toll Road Commission

W. Grant Mitchell, 1968
Thousand Islands Bridge Authority

W.D. Hoback, 1967
Oklahoma Turnpike Authority

L.W. Newcomer, 1966
Kansas Turnpike Authority

Charles H. Taylor, 1965*
Port of New York Authority

Lawrence A. Rubin, 1964*
Mackinac Bridge Authority

James Adam, 1963
Golden Gate Bridge, Highway and
Transportation District

John Pershing, 1962
Richmond-Petersburg Turnpike Authority

Frank J. Horthy, 1961
Delaware Memorial Bridge

Holden A. Evans, 1960
New York State Thruway Authority

E. Bery Collard, 1959
Leavenworth Centennial Bridge
Commission

D. Louis Tonti, 1958
New Jersey Highway Authority

Weldon H. Heyburn, 1957
Delaware River Port Authority

Albert J. Wedeking, 1956
Indiana Toll Road Commission

C. Ellison Kaumeyer, 1955
Niagara Falls Bridge Commission

Roy Clippinger, 1954
White County Bridge Commission

Harry Taylor, 1953
Triborough Bridge and Tunnel Authority

Charles M. McCamic, 1952
Interstate Bridge Company

James E. Ricketts, 1951
Golden Gate Bridge, Highway and
Transportation District

Billings Wilson, 1950
Port of New York Authority

Louis J. Groene, 1948-49
Covington & Cincinnati Bridge Co.

S.P. Price, 1943
Vicksburg Bridge Commission

J.K. Beretta, 1942
Laredo Bridge

T.R. Hanff, 1941
Ocean City Automobile Bridge

Ben E. Davis, 1940
Tampa-Clearwater Bridge Co.

John W. Beretta, 1938-39
Laredo Bridge

W. L. Ingerick, 1937
Huntington & Ohio Bridge Company

Arthur A. Niessen, 1936
Tacony-Palmyra Bridge Co.

A. Clifford Shinkle, 1934-1935
Covington & Cincinnati Bridge Co.

Dr. D.B. Steinman, 1933
Robinson & Steinman, Construction
Engineers

*also an honorary member

FUNCTIONAL COMMITTEE CHAIRS

In addition to its Board Committees, IBTTA maintains six functional committees to focus on specific areas of member interest and engagement. Functional committees have the flexibility of creating valuable enhancements (e.g. webinars, white papers, roundtables during conferences, etc.) for their members.

Communications and Marketing Committee

Mario Diaz (Chair)
Miami-Dade Expressway Authority

Cecile Thirion (Vice-Chair)
Xerox Transportation

Lisa Thompson (Vice-Chair)
HNTB Corporation

Public and Private Finance Committee

Nick Grieshaber
Pennsylvania Turnpike Commission

Interoperability Committee

Dave Kristick
E-470 Public Highway Authority

Maintenance Committee

Daniel Castrigano, P.E.
Greenman-Pedersen, Inc.

Toll Operations Committee

Jim Wilson
TransCore, Inc.

IBTTA FOUNDATION



The IBTTA Foundation is the research, educational and charitable arm of IBTTA. The Foundation supports and conducts research on transportation and tolling; conducts training and professional development programs including the IBTTA Leadership Academy; supports charitable good works and operates a scholarship program. Contributions to the IBTTA Foundation are tax deductible as charitable contributions under section 501(c)(3) of the U.S. Internal Revenue Code.

The Foundation expanded its activities this year to include a new emphasis on industry research and scholarship funding. The Annual Golf Tournament, which was held during IBTTA's Annual Meeting in September, was a huge success and raised more than \$45,000 for the Foundation.



Foundation Board of Directors

Christine Keville (Chair)

Keville Enterprises Inc.

Federico Di Gennaro

AISCAT

Mike Heiligenstein

Central Texas Regional Mobility

Priya Jain

Atkins

Marcelle Jones

Jacobs Engineering Group

John McCuskey

WSP | Parsons Brinckerhoff

Philip Miller

AECOM

René Moser

ASFINAG

Rosa Rountree

Egis

Lisa Thompson

HNTB Corporation

P.J. Wilkins

E-ZPass Group

Kary Witt

Golden Gate Bridge, Highway & Transportation District

Sustaining Our Success

NEW & RETURNING MEMBERS

Active Members

Cameron County Regional Mobility
Authority
Jefferson Parkway Public Highway
Authority
Massachusetts Department of
Transportation
Sydney Motorway Corporation Pty Ltd
Uganda National Roads Authority (UNRA)
United Bridge Partners

Associate Members

Advanced Solutions Road Systems Ltd
Bechtel Infrastructure Corporation
Brisa Inovação e Tecnologia, SA
C&M Associates, Inc.
China Highway & Transportation Society
Cognizant Technology Solutions
CP&Y, Inc.
eX2 Technology
GM2 Associates
HAKS
Keville Enterprises Inc.

Moving Forward Consulting
NXP Semiconductors Austria GmbH
Pannone Lopes Devereaux & West LLC
PayTollo
RapidToll Systems, Inc.
Shenandoah LP
Silicon Transportation Consultants
Tamer Partners Corporation (tpc)
Thales Transport & Security, Inc.
TRMI Systems Integration
Wells Fargo Securities

Sustaining Members

Mitsubishi Heavy Industries, Ltd
Telepass SpA

Find complete list of members at
www.IBTТА.org/member-directory.

2016 IBTTA PLATINUM SPONSORS

AECOM

ATKINS

 **CUBIC**

 **egis**

HNTB

PARSONS

perceptics™ HIGH
PERFORMANCE
IMAGING

RS&H


TOLLPLUS
Advanced Tolling Solutions...

TRANSCORE

tti 1996-2016
CONSULTING 20
YEARS

 **WSP** | **PARSONS
BRINCKERHOFF**

xerox 



37
MILLION
ELECTRONIC
TOLL ACCOUNTS

55
MILLION
ACTIVE TOLL
TRANSPONDERS

currently in use across the country today according to the
2016 National Toll Facilities Usage Analysis

2016 Financials

Consolidated Statement of Activities IBTTA and IBTTA Foundation Year Ended December 31, 2016

REVENUE

Operating Revenue	\$3,900,446
Meeting Revenue	\$2,139,945
Total Revenue	\$6,040,391

EXPENSES

Operating Expenses	\$4,244,098
Meeting Expenses	\$1,340,197
Total Expenses	\$5,584,295
Change in Net Assets, Before Investment Income (Loss)	\$456,096
Investment Income	\$105,549
Change in Net Assets	\$561,645
Net Assets, Beginning of Year	\$1,741,053
Net Assets, End of Year	\$2,302,698

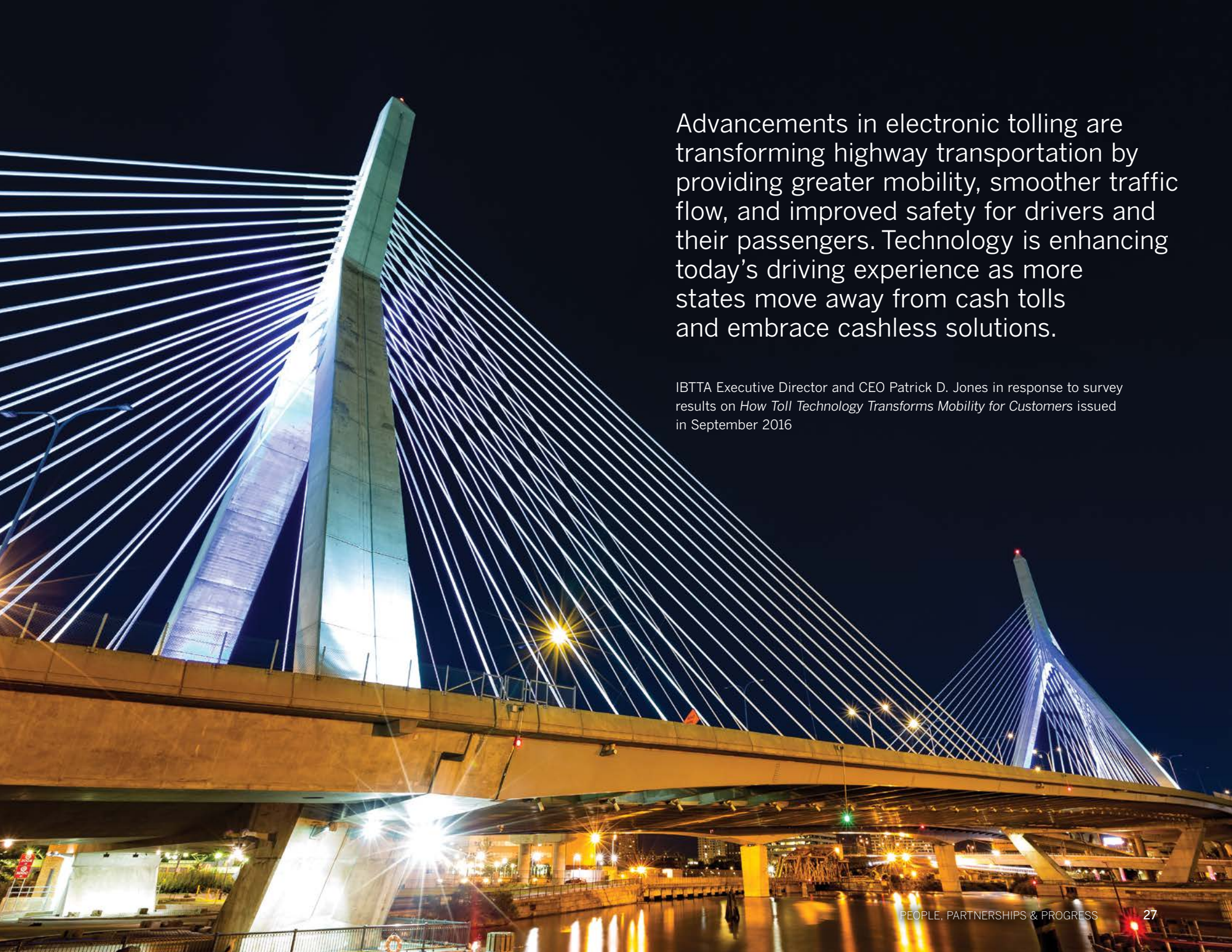
SOURCE OF FUNDS

Meeting Revenue	35%
Active Member Dues	26%
Associate and Sustaining Member Dues	15%
Other Income	24%

USE OF FUNDS

Personnel and Benefits	39%
Meeting Expenses	24%
Other (Programs, Advertising, Travel)	37%

All figures in U.S. dollars, consolidated to include IBTTA and IBTTA Foundation.
Includes industry contributions to support interoperability testing.



Advancements in electronic tolling are transforming highway transportation by providing greater mobility, smoother traffic flow, and improved safety for drivers and their passengers. Technology is enhancing today's driving experience as more states move away from cash tolls and embrace cashless solutions.

IBTTA Executive Director and CEO Patrick D. Jones in response to survey results on *How Toll Technology Transforms Mobility for Customers* issued in September 2016

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 tolling. Founded in 1932, IBTTA has members in more than 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.

Follow us on Twitter: @IBTTA | #IBTTA | #TollRoads

2016 IBTTA STAFF

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Chief Executive Officer
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Anna Sohriakoff

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asohriakoff@ibtta.org



Tolling is not the only tool in the transportation funding toolbox. But it is a powerful and effective tool that has been used successfully since the very first highways were built in America. A highway funding mechanism that was effective centuries ago is popular and effective again today because it's convenient and gets the job done.



IBTTA Executive Committee (left to right)
Javier Rodríguez, Tim Stewart, Emanuela
Stocchi, Buddy Croft III, Malika Seddi,
and Patrick Jones



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Washington, DC 20036
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#IBTTA