



# PTC WORLD CONGRESS

Renaissance Orlando, SeaWorld, Florida

**April 15-17 2014**

**FREE TO ATTEND AND FOR RAILROAD AND GOVERNMENT REPRESENTATIVES**  
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## THE ONLY DEDICATED PTC EVENT FOR THE WHOLE VALUE CHAIN

### KEY SPEAKERS INCLUDE:



**Deborah Hersman**  
Chairman  
**National Transportation Safety Board**



**Ray LaHood**  
Former  
**US Secretary for Transportation**



**Henry McCreary**  
Director PTC  
Communications  
**CSX Transportation**



**Keith Holt**  
Deputy Chief  
Engineer  
Communications  
and Signals  
**Amtrak**



**Tim McKay**  
Executive Vice  
President, Rail  
Program  
Development  
**Dallas Area Rapid Transit**



**François Blouin**  
Director, Emerging  
Technologies &  
Operational  
Effectiveness  
**VIA Rail Canada**



**Eileen Reilly**  
Vice President,  
Projects, Engineering,  
Technology and  
Signals  
**Alaska Railroad**



**Paul Victor**  
President  
**New York and Atlantic Railway**

### Two streams for two audiences

#### Strategic implementation stream covering:

- Practical advice on implementation from **Amtrak**
- How to attain interoperability with **DART**
- How to effectively train your workforce for PTC with **Cory's Thunder**
- How to test systems and obtain certification with **Alaska Railroad**
- How **CSX** defined and acquired spectrum

#### Practical systems stream covering:

- How to effectively install onboard systems with **Sound Transit**
- How to update legacy wayside systems with **SFRTA**
- How to maintain the PTC network
- How to manage your PTC back office
- How **NCTD** ensure a highly reliable and successful PTC system

*"I've learnt a lot just listening to the other case studies, they were very useful. Invaluable."*

Rick Stones, AVP, Advanced Systems Planning, Kansas City Southern



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**\$13.2 BILLION**

estimated total cost to install and maintain PTC over next 20 years

**65 lives and 1,000+ injuries across 26 NTSB investigations could have been avoided with PTC**

**300**

attendees and 2 streams to provide value for your whole value chain



## KEY PRACTICAL TAKEAWAYS FOR YOUR WHOLE TEAM!

- Ensure cost and time effective deployment
- Achieve interoperability on the whole network
- Learn best practice deployment strategies from industry leaders
- Define system requirements with technical training
- Receive successful certification and testing of systems
- Acquire spectrum successfully and develop your communication networks
- Attract and train your workforce efficiently
- Develop business relationships with past and new customers, clients and colleagues



# MAKING FUTURE RAILWAYS SAFE AND EFFICIENT

## PTC Industry Review

The 2015 Government mandate for Positive Train Control is just over a year away, with uncertainty still surrounding any possible extension to this deadline. Railroads across the US continue to strive towards successful deployment, in order to improve the safety and interoperability of the rail network. Freight and commuter railroads face evolving challenges in their deployments, with unprecedented complexity in overcoming both the strategic implementation obstacles and in understanding the technicalities of the system. There are both short-term time and cost pressures, and long-term training and development issues that must be solved.



## New for PTC World Congress 2014

Having attracted over 270 senior level delegates in 2013, the only dedicated congress for the whole value chain involved positive train control is back and is completely free for Railroad and Government employees! With the support and collaboration of our industry leading Advisory Board including representatives from AAR and AREMA, the brand new innovative agenda is streamed to deliver greater value for all those working on PTC deployments. Bring your whole team and uncover best practice practical implementation advice in the strategic stream and detailed technical support on PTC technology in our innovative system stream.

**Join over 300 senior levels and over 50 expert speakers for 3 days of case studies, workshops, demos, training and roundtable sessions to drive the US rail network forward and successfully deliver PTC.**



*The centerpiece of discussions on Positive Train Control in the US.*  Steve Zwart, Customer Director, Alstom



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VIDEO CONTENT

## Innovative format covering your most important challenges



### Keynote and plenary sessions:

The keynote sessions and plenary's give a holistic view on overcoming deployment challenges from industry leaders, executives and government representatives such as **Ray LaHood (former Secretary of Transport), NTSB, Amtrak and CSX.**



### System stream:

Showcasing real live examples of innovative technology and technical classes on PTC systems

- Delivering onboard technology
- Upgrading wayside systems
- Effective MOW
- PTC backbone infrastructure
- Effective back office and train management



### Workshops, lunch and breakfast briefings:

These interactive, intimate and lively sessions offer the perfect platform for debate, discussion and developing consensus. Led by renowned technical experts key topics include training, staff development and PTC fundamentals.



### Implementation stream:

Focused on overcoming key strategic challenges impacting PTC deployment case studies and panel debates from class 1's. commuters and associations such as **DART, VIA Rail** deliver best practice across:

- Ensuring Interoperability
- Delivering network & radio upgrades
- Successful testing & certification
- Effective training benefits
- Uncovering future business benefits
- Developing standardization

**97%** of attendees rate the show as excellent to very good.



## OUR EXPERT ADVISORY BOARD

Our Advisory Board consists of the industry's leading experts and innovators. They meet once a year to discuss challenges in the industry and propose key topics that should be present on the agenda. The board is made up of railroads, associations, consultancies and suppliers to make sure every viewpoint is expressed. This ensures the event remains industry-led.

**Sebastian Oertel**  
Chief Operating Officer  
**TÜV Rheinland**

**Eric Cheng**  
Chief Railroad Engineer  
**Department of Transportation, Utah**

**Steve Zwart**  
Customer Director  
**Alstom**

**Suzanne Kasai**  
Business Development Manager,  
Government and Enterprise Markets  
**RFS (Radio Frequency Systems)**

**George Olague**  
Product Manager  
**PCTEL**

**Barry Einsig**  
Global Transportation Executive  
**Cisco Systems**

**Scott McKelvie**  
Director of Sales  
**TPSC Rail**

**Bill Everett**  
Business Development – PTC,  
Narrowbanding, Security  
**ARINC**

**Richard Bennett**  
Sales Leader, Intelligent Control  
Systems, North America  
**GE Transportation**

**Roberto Consigli**  
Head of Transportation Solution  
Proposal Engineering & Product  
Management  
**Selex Elsag**

**Alex Fata**  
Sales Engineer  
**Davanac Inc.**

**Senior Representative**  
**Red Hat**

**Sami Kibria**  
Canada – Transit Segment Leader  
**GE Transportation**

**Jon Adams**  
Vice President, Strategy and Marketing  
**Lilee Systems**

**John Danyluk**  
Business Development – Rail  
**CalAmp**

**Sid Bakker**  
Committee 39 Positive Train Control  
**AREMA**

**Dave Gove**  
AVP Business Development  
**TPSC Rail**

**Dan Yerina**  
Sales and Business  
Development Manager North  
America, Rail Control Solutions  
Division  
**Bombardier Transportation**

**Sandeep Khajuria**  
Vice President  
**Mahindra Satyam**

**Tom Ceunen**  
Sales Director North America  
**OTN Systems**

**Timothy DePaepe**  
Railroad Accident Investigator  
**National Transportation Safety Board**

## KEY SPEAKERS INCLUDE

[VIEW THE LIVE AND UP-TO-DATE CONFIRMED SPEAKERS HERE](#)

**Deborah Hersman**  
Chairman  
**National Transportation Safety Board**

**Ray LaHood**  
former US Secretary for  
Transportation

**Henry McCreary**  
Director PTC Communications  
**CSX Transportation**

**Keith Holt**  
Deputy Chief Engineer  
Communications and Signals  
**Amtrak**

**Gerhard Thelen**  
Independent Transportation  
Consultant  
former Norfolk Southern

**François Blouin**  
Director, Emerging Technologies &  
Operational Effectiveness  
**VIA Rail Canada**

**Eileen Reilly**  
Vice President, Projects, Engineering,  
Technology and Signals  
**Alaska Railroad**

**Norma De La Garza Navarro**  
VP Commuter Rail & Director of TRE  
**Dallas Area Rapid Transit**

**Tim McKay**  
EVP – Rail Program Development  
**Dallas Area Rapid Transit**

**Mike Lundell**  
VP Compliance & Safety  
**Genesee & Wyoming Railroad**

**Eric Beckman**  
Rail Program Manager  
**Sound Transit**

**Paul Victor**  
President  
**New York and Atlantic Railway**

**Steve Hooper**  
Director of Operations  
**Panama Canal Railway**

**Eric Cheng**  
Chief Railroad Engineer  
**Utah Department of Transportation**

**Brad Barkman**  
Director of Operations  
**South Florida Regional  
Transportation Authority**

**Michael Harris-Gifford**  
Executive Officer- Wayside Systems  
**Los Angeles County Metropolitan  
Transportation Authority**

**Wilson Milian**  
Design Manager, Signals & Train  
Control, Capital Program Management  
**MTA - New York City Transit**

**Jared Withers**  
General Engineer- Signals  
Train Control and Communications,  
**FRA**

**Sid Bakker**  
Committee 39 on PTC  
**AREMA**

**Lou Sanders**  
Director of Technical Services  
**American Public Transportation  
Association**

**Barry Einsig**  
Global Transportation Executive  
**Joint Council on Transit Wireless  
Communications**

**Michael L. Higgs**  
Attorney & Chairman  
Telecommunications Department  
**Shulman Rogers**

**Antonio Muñoz**  
Product Owner CITYFLO 650 CBTC  
**Bombardier Transportation**

**Alan Tilles**  
Narrowbanding Task Force Chair  
**Joint Council on Transit Wireless  
Communications**

**Paul Feldman**  
Partner  
**Fletcher Heald & Hildreth PLC**

**Karl Witbeck**  
Principle, Transportation  
**Stantec**

**Jon Adams**  
Chair, IEEE 802.15.4p Positive Train  
Control Group  
**IEEE**

**Dave Schanoes**  
Owner  
**Ten90 Solutions LLC**

**Ron Lindsey**  
Consultant  
**Communication Architecture**

**Warren Havens**  
President  
**Skybridge Spectrum Foundation**

**Sharon Silas**  
Assistant Director  
**U.S. Government Accountability  
Office**

**John Paul Zanaska**  
Director, Northstar Commuter Rail  
**Metro Transit**

**Robert Paladino**  
Rail Systems Engineer  
**NCTD**

**Jared Withers**  
General Engineer- Signals, Train  
Control and Communications  
**FRA**

**Emily Larson**  
Senior Analyst  
**U.S. Government Accountability  
Office**

**Jack Buckingham**  
Project Manger  
**Caltrain**

**Karen Antion**  
PTC Program Manager  
**San Mateo County Transit District**

**Dave Elliot**  
PTC Project Operations Liason  
**Caltrain**

## PAST ATTENDEES INCLUDE

Aberdeen Carolina & Western Railway • ACA • ADL USA • AECOM • Aeroflex Test Solutions • AGENCE MÉTROPOLITAINE DE TRANSPORT • Alaska Railroad Corp • Alcatel-Lucent/Amerires • Aldridge Electric • Alexander Transportation Consultants • Alstom Transport • América Latina Logística • Amsted Rail Company, Inc • Amtrak • Ansaldo STS • AREMA • ARINC • Ayer Electronic Systems • Bartlett & West • Battelle • Belden • Belden, Inc. • Belt Railways Company of Chicago • Bombardier • Bombardier Transportation • Booz Allen Hamilton Inc. • Brotherhood of Locomotive Engineers and Trainmen • Brotherhood of Railroad Signalmen • Cad Railway Industries Ltd • CalAmp • Caltrain • Cambridge Communications & Signal Systems • Canadian National Railway • Canadian Pacific Railway • Capital Metropolitan Transportation Authority • Capital Tower & Comm., Inc. / DTSI • Cenral Japan Railway • Central Florida Commuter Rail- SunRail • CH2MHILL • CIT Group – Transportation Finance • CIT Rail • Clifton, Weiss & Associates, Inc. • ComSource Inc • Convergent Communication Inc





**PRACTICAL & EFFECTIVE PERSONNEL TRAINING**

We are proud to announce that this year's PTC World Congress 2014 will be supported by our official Training Partner **Corys Thunder Inc.** and their Class 1 railroad customers, who are hosting our pre-congress Workshop. You will be able to learn from and network with the experts at Cory's and their Class 1 railroad customers in an intimate learning and networking workshop. You will even be able to take part in practical demonstrations of rail simulation. Over 75% of railroad employees will need some training in order to effectively operate PTC; making this workshop essential for North American freight, passenger and transit railroads implementing PTC.

**WORKSHOP AGENDA**

13:00	<b>Workshop Introduction</b>	15:30	<b>Networking Coffee Break</b>
13:10	<b>Presentation of available training technologies, PPT, CBT, Simulation</b>	16:15	<b>Presentation and Demonstration of technology for the final three Engineer training components</b>
13:30	<b>Open debate and discussion</b>		(4) PTC specific operating rules
14:00	<b>Presentation and demonstration of technology for three Engineer PTC training components</b>		(5) Detecting Deviations from proper system function and response
	(1) Equipment familiarization		(6) Prevention of unintentional interference with proper system function
	(2) System initialization and data entry	17:00	<b>Open Debate and discussion</b>
	(3) System Interventions	17:15	<b>Concluding summary and closing remarks</b>
15:00	<b>Open debate and discussion</b>		

**Wednesday 16th April: Congress Day One**

07:45 Congress Registration and Networking Coffee in the Exhibition Room  

08:00 **Breakfast Briefing:**  
Fundamentals of PTC

**KEYNOTE SESSION**

09:00 **Official congress opening:**  
Ray LaHood, former **US Secretary for Transportation**

09:20 **Report GAO-13-720: An examination of the status of PTC implementation**  
Sharon Silas, Assistant Director, **U.S. Government Accountability Office**

09:40 **Keynote Session: Reaffirming the purpose of PTC**  
Deborah Hersman, Chairman, **National Transportation Safety Board**

10:00 **KEYNOTE Q&A**

10:30 Networking Coffee Break  



**PLENARY SESSION**

11:00 **Case study: The practicalities of developing and implementing PTC for Amtrak**  
Keith Holt, Deputy Chief Engineer Communications and Signals, **Amtrak**

11:20 **Case study: A Class 1 railroad perspective on the implementation of PTC**  
Gerhard Thelen, Independent Transportation Consultant, former **Norfolk Southern**

11:40 **Case study: A cost effective path toward PTC**  
François Blouin, Director, Emerging Technologies & Operational Effectiveness, **VIA Rail Canada**

12:00 **Panel: The practicalities of enforcement, the long term operation with PTC, and evolution of PTC to maximize ROI**  
Henry McCreary, Director PTC Communications, **CSX Transportation**  
Gerhard Thelen, Independent Transportation Consultant, former **Norfolk Southern**  
François Blouin, Director, Emerging Technologies & Operational Effectiveness, **VIA Rail Canada**  
Steve Hooper, Director of Operations, **Panama Canal Railway**  
Paul Victor, President **New York and Atlantic Railway Company**  
Keith Holt, Deputy Chief Engineer Communications and Signals, **Amtrak**  
Eileen Reilly, VP Projects, Engineering, Technology and Signals, **Alaska Railroad**

12:30 Networking Lunch in the Exhibition Room  

**Lunchtime Briefing: Future Research Requirements**  
Jared Withers, General Engineer - Signals, Train Control and Communications, Train Control and Communications, **FRA**

**IMPLEMENTATION STREAM**

13:45 **INTEROPERABILITY**

13:50 **Case Study: Key lessons learned from working with Class 1 railroads in PTC implementation**  
Eileen Reilly, VP Projects, Engineering, Technology and Signals, **Alaska Railroad**

14:10 **Case study: Effectively defining your onboard requirements with PTC**  
Eric Beckman, Rail Program Manager, **Sound Transit**

14:30 **Case study: Key lessons learned when implementing new technology**  
Wilson Milian, Design Manager, Signals & Train Control, Capital Program Management, **MTA - New York City Transit**

14:50 **Case study: Planning and compatibility across a regional rail network**  
Norma De La Garza Navarro, VP Commuter Rail & Director of TRE, **Dallas Area Rapid Transit**  
Tim McKay, EVP of Rail Program Development, **Dallas Area Rapid Transit**

15:10 **Panel: Working with all key stakeholders to define requirements and ensure an interoperable network**  
Brad Barkman, Director of Operations, **SFRTA**  
Wilson Milian, Design Manager, Signals & Train Control, Capital Program Management, **MTA - New York City Transit**  
Norma De La Garza Navarro, VP Commuter Rail & Director of TRE, **Dallas Area Rapid Transit**  
Tim McKay, EVP of Rail Program Development, **Dallas Area Rapid Transit**  
Eileen Reilly, VP Projects, Engineering, Technology and Signals, **Alaska Railroad**

15:50 Networking Coffee Break  

**COMMUNICATIONS: NETWORK AND RADIO SOLUTIONS**

16:20 **Session Moderator:**  
Alan Tilles, Narrowbanding Task Force Chair, **Joint Council on Transit Wireless Communications**

16:45 **Case study: Defining requirements for spectrum planning and how to acquire it**  
Henry McCreary, Director PTC Communications, **CSX Transportation**

17:05 **Case study: Defining requirements for spectrum planning and how to acquire it**  
Warren Havens, President, **Skybridge Spectrum Foundation**

17:25 **Case study: Overcoming obstacles with antenna deployments to accelerate PTC deployment**  
Michael L. Higgs Jr., Attorney & Chairman Telecommunications Department, **Shulman Rogers Representative, FCC**

17:45 **Panel: Effective spectrum and design planning and technology selection to ensure reliable communications**  
Ron Lindsay, Owner, **Communications Architecture**  
Warren Havens, President, **Skybridge Spectrum Foundation**  
Karl Witbeck, Principle, Transportation, **Stantec Consulting Services**  
Michael L. Higgs Jr., Attorney & Chairman Telecommunications Department, **Shulman Rogers**  
Henry McCreary, Director PTC Communications, **CSX Transportation Representative, FCC**

18:15 PTC World Congress Cocktail reception 

19:30 **End of Day One**

**SYSTEM STREAM**

13:45 **EFFICIENT ONBOARD SYSTEMS: THE PTC LOCOMOTIVE**

**INTERACTIVE WORKSHOP**

With the 2015 deadline approaching, it is estimated that 22,000 locomotives need to be shopped + outfitted with interoperable hardware. This session will help you understand how to:

- Define onboard needs for PTC to ensure reliable and futureproof communications
- Effectively define your onboard requirements with PTC
- Develop a simple, cost effective onboard system
- Work together to ensure an efficient and futureproof onboard system

15:50 Networking Coffee Break  

16:20 **UPGRADING WAYSIDE SYSTEMS**

16:45 **Case study: Working towards upgrading wayside systems cost effectively**  
Brad Barkman, Director of Operations, **SFRTA**

17:05 **Case study: Updating legacy wayside signal locations without disrupting ongoing service**  
Antonio Muñoz, Product Owner **CITYFLO 650 CBTC, Bombardier Transportation**

17:25 **Case study: Ensuring effective wayside to train communications**  
Michael Harris-Gifford, Executive Officer - Rail Wayside Systems, **Los Angeles County Metropolitan Transportation Authority**

17:45 **Panel: Upgrading wayside systems without disruption to ongoing service.**  
Michael Harris-Gifford, Executive Officer - Rail Wayside Systems, **Los Angeles County Metropolitan Transportation Authority**  
Brad Barkman, Director of Operations, **SFRTA**  
Antonio Muñoz, Product Owner **CITYFLO 650 CBTC, Bombardier Transportation**

18:15 PTC World Congress Cocktail reception 

19:30 **End Of Day One**



**NETWORK & JOIN THE DEBATE 24/7**



For the other 362 days of the year when you are not attending PTC World Congress, you can join almost 1,000 fellow rail professionals in the latest Positive Train Control news stories and debate.

Featuring breaking news, expert opinion, and exclusive interviews with our speakers and attendees – join the group by clicking on the LinkedIn logo now!



08:00 Congress Registration and Networking Coffee in the Exhibition Room  

### IMPLEMENTATION STREAM



#### 09:00 FIELD TESTING AND ATTAINING CERTIFICATION

09:05 **Case study: Planning effective field testing for PTC without disrupting ongoing service**  
John Paul Zanaska, *Director, Northstar Commuter Rail, Metro Transit*

09:25 **Case study: Receiving certification for new PTC systems cost effectively**  
Eileen Reilly, *VP Projects, Engineering, Technology and Signals, Alaska Railroad*

09:45 **Case study: Integrating systems successfully without interrupting service**  
Robert Paladino, *Rail Systems Engineer, NCTD*

10:05 **Panel: Optimizing delivery and enhancing operations with successful testing strategies**  
Eileen Reilly, *VP Projects, Engineering, Technology and Signals, Alaska Railroad*  
Robert Paladino, *Rail Systems Engineer, NCTD*  
John Paul Zanaska, *Director, Northstar Commuter Rail, Metro Transit*  
Jared Withers, *General Engineer- Signals, Train Control and Communications, FRA*

10:35 Networking Coffee Break and Product Demo  

#### 11:15 TRAINING A WORKFORCE EFFECTIVELY

*Session Moderator: Sid Bakker, Committee 39 Positive Train Control, AREMA*

11:20 **Case study: Developing a committed culture and creating training programmes**  
Sid Bakker, *Committee 39 Positive Train Control, AREMA*

11:40 **Case study: How PTC deployment can positively affect the human aspects and culture of your railroad operation**  
Steve Hooper, *Director of Operations, Panama Canal Railway*

12:00 **Case study: Building workforce expertise and overcoming availability issues**  
Mike Lundell, *VP Compliance & Safety, Genesee & Wyoming Railroad*

12:20 **Case Study: Ensuring an efficient PTC operation with highly efficient training methods for your operating personnel**  
Representatives from a **Class 1 Railroad** and **Cory's Thunder**

12:20 **Panel: The importance of workforce training to ensure successful operation of PTC systems**  
Mike Lundell, *VP Compliance & Safety, Genesee & Wyoming Railroad*  
Michael S. Baldwin, *Director of Research, Brotherhood of Railroad Signalmen*  
Steve Hooper, *Director of Operations, Panama Canal Railway*

13:00 Networking Lunch in the Exhibition Room  

#### 13:15 PTC WORLD CONGRESS PRIZE GIVEAWAY



14:00 **PTC: UNLOCKING THE BUSINESS BENEFITS**  
*Session Moderator: Barry Einsig, Global Transportation Executive, Joint Council on Transit Wireless Communications*

14:05 **Case study: The PTC cost:benefit ratio and opportunities to leverage PTC for business benefit**  
Emily Larson, *Senior Analyst, U.S. Government Accountability Office*

14:25 **Case study: Increasing the additional functionality of the network to improve service**  
Ron Lindsay, *Owner, Communications Architecture*

14:45 **Case study: Developing intelligent rail networks to maximize ROI**  
Paul Victor, *President, New York and Atlantic Railway Company*

15:05 **Panel: Creating a strategy to fully exploit potential long term reduction in operational costs**  
Emily Larson, *Senior Analyst, U.S. Government Accountability Office*  
Ron Lindsay, *Owner, Communications Architecture*  
Barry Einsig, *Global Transportation Executive, Joint Council on Transit Wireless Communications*  
Paul Victor, *President, New York and Atlantic Railway Company*

15:35 Networking Coffee Break and Product Demo  



### SYSTEM STREAM

#### INTERACTIVE WORKSHOP

##### 09:00 MOW: MAINTENANCE OF WAY

The total cost of PTC for railroads is estimated to rise to over \$13 billion by 2020, which includes maintenance of the technology. This session will help you:

- Successfully maintain the PTC network
- Make MOW a part of long term PTC planning
- Reduce OPEX with effective MOW
- Reduce long term maintenance costs with effective MOW

10:35 Networking Coffee Break and Product Demo  

#### INTERACTIVE WORKSHOP

##### 11:15 TRAFFIC MANAGEMENT:

##### THE COMMUNICATION INFRASTRUCTURE



**Session Moderator: Eric Cheng** *Chief Railroad Engineer Utah Department of Transport*

This session will improve your understanding of the new train management infrastructure available to you with PTC. The session will help you:

- Ensuring highly integrated, intelligent PTC systems
- Ensuring interoperability
- Developing an effective communications network
- Optimizing operations with an effective communication network

Featuring:



12:50 Networking Lunch in the Exhibition Room  

#### 13:15 PTC WORLD CONGRESS PRIZE GIVEAWAY

#### INTERACTIVE WORKSHOP



##### 14:00 UTILIZING SOFTWARE: THE BACK OFFICE ENVIRONMENT

In order to enhance the back office environment for PTC, this session is designed to help you:

- Create flexible base stations for communication networks
- Guarantee the reliable flow of safety critical communication
- Coordinate dispatch, routing and critical information with successful back office operations

Featuring:



15:35 Networking Coffee Break and Product Demo  

### CLOSING PLENARY SESSION

#### INTEGRATING SYSTEMS AND ACCELERATING STANDARDIZATION

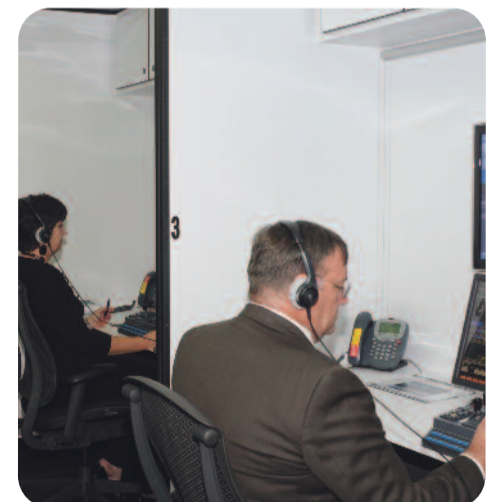
16:15 **Session Moderator**  
Jon Adams, *Chair, IEEE 802.15.4p Positive Train Control Group, IEEE*

16:20 **Case study: Developing an industry-wide culture to work towards system interoperability and integration**  
Eileen Reilly, *VP Projects, Engineering, Technology and Signals, Alaska Railroad*

16:40 **Case study: The future of PTC: How will the system evolve?**  
Lou Sanders *Director of Technical Services, American Public Transportation Association*

17:10 **Panel: Developing a long term plan to ensure technological interoperability and open standards for PTC**  
Jon Adams, *Chair, IEEE 802.15.4p Positive Train Control Group, IEEE*  
Lou Sanders *Director of Technical Services, American Public Transportation Association*  
Tim McKay, *EVP of Rail Program Development, Dallas Area Rapid Transit*  
Eileen Reilly, *VP Projects, Engineering, Technology and Signals, Alaska Railroad*  
Steve Hooper, *Director of Operations, Panama Canal Railway*

17:40 **End of Congress**





## LEAD SPONSORS

# BOMBARDIER

the evolution of mobility

**Bombardier Transportation** offers the broadest portfolio in the rail industry and delivers innovative products and services that set new standards in sustainable mobility. Our division, Rail Control Solutions is a global leader in delivering state-of-the-art, safe rail control solutions. From high density mass transit systems to intercity, or long distance passenger and freight operations, from cross-border solutions to regional and low density industrial lines, Bombardier's highly proven signalling solutions have been installed in over 50 countries and are adaptable to suit all needs.

## PowerTrunk

**PowerTrunk Inc.** is the subsidiary of Teltronic® S.A.U. responsible for business development, distribution and customer support for Teltronic land mobile radio projects in North America. The company is headquartered in New York City. With over 35 years' experience designing, manufacturing, implementing and supporting digital and analog land mobile radio turnkey projects, Teltronic S.A.U. has more than 300 systems installed in 50 countries. Teltronic's LMR solutions are widely deployed in the public safety, oil and gas, transportation, and utilities industries. We own 100% of our LMR technology which includes conventional and trunked infrastructure systems, mobiles, hand portables and dispatching consoles. The company manufactures TETRA, P25 and LTE solutions. Headquartered in Spain, Teltronic S.A.U. is one of the fastest-growing TETRA solutions providers today, with a direct commercial presence in over 25 countries throughout Europe, Asia, the Pacific Rim, the Middle East, Latin America and the United States.

## TRAINING PARTNER

# CORYS

The Power of Simulation

**Corys Thunder Inc.** is the leading global supplier of train driving simulators, with more than 550 simulators operational worldwide. Corys Thunder, Inc. based out of Jacksonville, Florida, provides full-scope, hybrid, and portable simulators for North American freight, passenger and transit railroads. In addition to its work in the transportation sector, Corys is the leading provider of nuclear reactor simulators in North America, surpassing the industry's rigorous fidelity standards. Corys combines the expertise of engineers, trainers, software developers, graphic designers, and modeling specialists to create high-performance training and engineering tools to deliver reliable, customer validated simulation solutions. This experienced team optimizes customer training and engineering investments while enhancing operational safety and efficiency.

Corys proven expertise in rail simulation, cab construction, software modeling (including PTC integration), high fidelity CGI, motion and sound interfaces, and comprehensive performance reporting define the state of the art in the simulation industry. Dedicated to the safety and training of its customers, all Corys simulators meet or exceed railroad industry requirements.



## ASSOCIATE SPONSOR

# DEUTA-WERKE

With our new subsidiary **DEUTA America Corporation [BOLD]** based in Long Island, NY our U.S. customers have a strong partner directly on-the-spot. DEUTA produces, assembles, qualifies and provides worldwide approved product for the rail industry with appropriate support. From tailor-made to complete safety systems – DEUTA is a leading provider of state-of-the-art solutions based on innovation, safety and customer orientation.

Our product line includes a. o.:

- speed sensors (contact/contactless)
- indicators
- multifunctional terminals
- multifunctional event recorders. (FRA/IEEE compliant)

DEUTA is committed to support U.S. freight and passenger operators with technically advanced PTC solutions. E.g. REDBOXstar event recorders with flexible configuration and compact dimensions, compliant to FRA and IEEE standards with a play back Tool based on modern software architecture allowing flexible configuration and analysis. REDBOXstar event recorders are compatible with the crash hardened memory modules PMU23 and PMU24 (FRA/IEEE compliant).



## SUPPORTERS



**American Railway Engineering and Maintenance-of-Way Association (AREMA)** is the international professional association for railway and transit engineering personnel.



**Joint Council on Transit Wireless Communications** is a non-profit, volunteer organization that was formed in 2009 to meet the growing wireless communication needs of the transit industry. The Joint Council provides a critical link between transportation providers, manufacturers, regulators, public safety and support industries through its mission to assure that transit industry wireless communications needs are continuously met through information sharing.



**American Public Transportation Association (APTA)** is a non-profit organization which serves as an advocate for the advancement of public transportation programs and initiatives in the United States. Since its founding in 1882 (as the American Street Railway Association), APTA has educated the public about the benefits of public transportation through organized bus, paratransit, light rail, commuter rail, subways, waterborne services, high-speed rail, and intercity and passenger rail programs. It lobbies the U.S. Congress and local government bodies in favor of public transportation improvements and new developments



**SmartRail World** is your guide to our changing industry giving you the very latest news, views and media from the world of rail and metro Signalling, Telecommunications, Passenger Information Systems (PIS), IT & WiFi and Fare Collection.

## EXHIBITORS



**CalAmp** provides the range of equipment and the expertise to deliver wireless communications solutions that fit the specific needs and opportunities facing today's transportation and rail systems. Specializing in ruggedized wireless solutions from narrowband to broadband, using licensed, spread spectrum and cellular technology, our products support fixed and mobile connectivity for mission critical applications. We also offer world-class pre and post-sales support to make planning, implementation, and maintenance of your wireless network easier with long-lasting results.



**Icomera** launched the world's first high-speed Internet solution for trains in September 2002 and is today the world's leading provider of open Internet connectivity and application platforms for passenger transport and public safety. Our award-winning products are deployed on rail, road and sea, serving more than 1 million Wi-Fi users every week in over 26 countries and providing high-speed access for fleet tracking and mission-critical on-board systems. Transport solutions of the future will require more than connectivity – passengers need to be entertained, the vehicles need to be monitored and the staff need to be kept informed. Together with our application partners Icomera is already meeting these and other needs through the deployment of complete transportation communication solutions.



**Leidos** is a science and technology solutions leader working to address some of the world's toughest challenges in national security, health, and engineering. The Company's 23,000 employees support vital missions for our government and the commercial sector, develop innovative solutions to drive better outcomes, and defend our Nation's digital and physical infrastructure from 'new world' threats. Leidos is headquartered in Reston, Va. and had approximately \$6 billion in revenues for fiscal year 2013, on a pro forma basis, following the spin-off of the company's technical, engineering and enterprise IT business on Sept. 27, 2013.



**PCTEL, Inc.** simplifies wireless. PCTEL RF Solutions develops network test equipment and provides engineering services for today's wireless communication networks. Our specialized scanning receivers and expert network engineers facilitate rapid deployment and optimization of the latest wireless technologies for outdoor, small cell, and in-building networks. PCTEL Connected Solutions™ specializes in antennas and engineered site solutions for private and public voice and data wireless networks. Our products support technologies including WiFi, GPS, land mobile radio, metro cells, and pico cells. PCTEL antennas and site solutions are used in applications including industrial wireless, fleet management, defense, public safety, mobile data offloading, and broadband access.



**Phoenix Contact** Tailored to different markets and their needs, at the heart of the company lies an extensive product portfolio: device and PCB connection technology, industrial components for electrical engineering and electronics, as well as industry-specific automation solutions. You are sure to be impressed by our innovative components, systems, and complete solutions.



**STI-CO** designs and manufactures antenna and filtering systems for on-board PTC and two-way mobile radio applications for heavy rail, commuter rail and the transit industry. STI-CO integrates a comprehensive solution by optimizing the antenna placement to mitigate intermodulation and provide superior performance. We are a certified DBE and manufacture our products in the USA.



**Transportation Products Sales Company (TPSC)** is a leading supplier to railroads, rail transit companies and industry contractors, offering products and services from manufacturers of top quality, rugged products. The company serves customers across North America, providing solutions for PTC, locomotives, signals, and telecommunications. Founded in 1986, the business today has offices in 11 locations, including their headquarters near St. Louis, Missouri.

# WHY SPONSOR OR EXHIBIT?

With an intimate setting and over 300 senior leaders from freight railroads, commuters, transit agencies, associations and Government, the PTC World Congress is the ultimate business development opportunity for credible and innovative suppliers.

If you are looking to increase market presence and build your brand, announce and demo new products and meet and do business with buyers across the whole value chain, you need to exhibit at the 4th Annual PTC World Congress.



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**Ben Green**, Sponsorship & Exhibition Director:  
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## Sponsor and Exhibitor packages at PTC World Congress 2014 allow you to

- Raise your Profile and Highlight Innovation**  
By leading a focused innovation seminar alongside leaders from across the entire value chain
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- Increase Market Presence and Build your Brand**  
Through our year round community events, content and targeted mail, email and social media campaigns
- Network With Senior Decision Makers And Budget Holders**  
Via facilitated meeting and networking opportunities

## TOP 10 REASONS TO EXHIBIT

- 1 Cut costs and meet all your current and potential customers in one place, at one time
- 2 Maximise the growth of your business by building relationships with colleagues, customers and competitors
- 3 Prove your thought leadership by showcasing your latest innovations
- 4 Raise your profile and show that you are a major industry player
- 5 Maximise interaction to understand what your customers are looking for
- 6 Influence key decision makers and ensure your message reaches key industry figures
- 7 Ensure you are at the cutting edge and keep up with industry trends
- 8 Highlight to all your customers how your solution can help achieve their goals
- 9 Protect your market position and secure crucial growth
- 10 Your competitors will be there. Don't let them win business at your expense

## INDUSTRY STATS

**\$\$**

**\$13.2 billion**  
Estimated total cost to install and maintain PTC over next 20 years



**70,000**  
Miles of track to be mapped



**75%+**  
of 150,000 employees need some training for PTC



**22,000**  
Locomotives need to be shopped + outfitted with interoperable hardware



**65 Lives**  
and 1,000+ injuries across 26 NTSB investigations could have been avoided with PTC



**300**  
Senior, technically-minded and decision-making attendees



**50 Case Studies**  
clarifying and explaining current freight and commuter railroad challenges and successes



**30 Exhibitors**  
showcasing innovative brands, products and solutions



**2 Streams**  
so your whole team can benefit

## CONGRESS STATS





*"PTC World Congress is a great opportunity. This event is really important to the industry."*

Jon Adams, VP, Strategic Development, Lilee Systems



April 15-17 2014, Renaissance Orlando, SeaWorld, Florida

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FULL CONFERENCE EXPERIENCE	\$1595	\$2095	\$2195	\$2195
2 DAYS ONLY	\$1295	\$1695	\$1795	\$1795

\*\* Unpaid or unprocessed registration by the time of the event will be charged at this rate plus \$200 onsite booking fee

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**OPTION 1:** I would like to pay by card. Paying by credit card is the best way to guarantee your place, and the only option after January 31st 2014. To pay by card, call us at +44(0)20 7045 0900 or book over the phone or online. Registration is open NOW!

**OPTION 2:** I ENCLOSE A CHEQUE PAYMENT  
 Cheques should be drawn on a UK bank and made payable to: Global Transport Forum Ltd.

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 This option is not available after January 31st 2014. Registration fees are net of bank charges. If paying by international bank transfer, ensure that your company pays both the sender's and receiver's bank charges. IMPORTANT: In order for us to track your payment and confirm you, please reference the bank transfer with PTC14 and the last name of delegate 1.  
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*"The conference was informative, passionate and contained industry experts with various positions. The challenges that everyone faces are dynamic but this conference presented many solutions to these issues."*

**Patrick Brouard,**  
 Director of Start-Up, Testing & Program Integration of Capital Programs, MTA Harris County

*"Global Transport Forum are the most professional people in our PTC World. Both panel and roundtable discussion sessions are very helpful and timely for our work."*

**Alan L. Rao,**  
 Director of Start-Up, Testing & Program Integration of Capital Programs, U.S. Department of Transportation

*"Global Transport Forum's PTC World Congress is the only event concentrated on the FRA initiative. The focus of the event, and the quality of the attendees, makes it the industry's only must attend PTC event."*

**Alan Tilles,**  
 Narrowbanding Task Force Chair, Joint Council on Transit Communications

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