

Expo

DAILY

+ Foxx on the
Floor | 34

Day 3

Wednesday, October 15, 2014

Published by **MASS TRANSIT**



4 **Born on a Bayou**
A new path is transforming neighborhoods across the city.



8 **View from the Floor**
Suppliers showcase their latest innovations.



24 **A Smart Solution for Portland**
TriMet is using new fare collection technology to enhance connections and rider experience.

MASS TRANSIT

Visit Mass Transit staff at **booth 5806**.

@MassTransitmag

#APTAE expo





Thinking Like a Passenger

MONDAY 6:25AM *I must get to the office on time. Meeting first thing, followed by more meetings. I hope I get home in time for Billy's baseball game tonight? I wonder what track we're arriving on? ...track 34, good. Near the stairs. I love knowing what track we're arriving on.*

As passengers go to and fro each day, we help transportation leaders all over the world have confidence in the service they provide.

Keolis

keolisnorthamerica.com
1 (844) RIDE-KEOLIS

Visit us at:
APTA's Annual Meeting & EXPO 2014
Booth # 4837 Hall D

A young child with light brown hair, wearing a bright blue winter jacket, is shown in profile, looking out of a window. The view outside the window is a snowy city street with buildings and trees covered in snow. The child's expression is one of curiosity and wonder. The background is slightly blurred, emphasizing the child and the view through the window.

SIEMENS

Bringing More Energy to the Heart of Your City

Siemens answers are helping America's downtowns flourish

Cities are evolving. Urban spaces are swelling as more people than ever look to live in these fast-paced environments. To stay ahead, forward-thinking leaders are turning to Siemens. Together we are optimizing city infrastructures that will attract both new residents, and new businesses.

Siemens complete solutions for mobility are helping change how cities grow and how their citizens move through them. Convenient transportation, reduced congestion, and faster commute times make downtown areas more accessible. By connecting communities, cities can thrive with new economic possibilities.

**Because mobility is more than just transportation,
it helps build sustainable cities.**

usa.siemens.com/mobility

Born on a Bayou



PHOTOS BY MASS TRANSIT/JOE PETRIE
MICHAEL SKELLY shows riders a green space that was sealed off with a guard rail after construction instead of installing an access path.

HOUSTON IS HISTORICALLY KNOWN AS a car town with its seemingly endless freeway system, but some residents are pushing changes to move people out of their cars and onto their feet.

The Greenway Bayou System is connecting neighborhoods across the city and transforming the community, but it's still a long ways from where



FREEWAYS RUN above the Greenway Bayou System.

supporters want to see it. "The reason this happened was some remarkable political grassroots," said Harris County Metropolitan Transportation Authority Board Member Christof Spieler.

Houston Parks Board Member Michael Skelly said the idea of a greenway along the city's bayous was first imagined by a local planner in 1910. The idea was to utilize low value land prone to flooding into a greenway.

The idea was kicked around for decades, but it wasn't until 2011 when the city first started taking strong steps to make the idea a reality.

Skelly began pitching the idea to residents by meeting in Market Square Park and taking residents for bicycle rides along the bayous regardless if there was a trail or not. Once riders saw the potential for what could be, it began to generate support.

Skelly said supporters then approached the city to put a bond measure to voters, which then passed with 68 percent support. The measure cleared \$100 million in bonding to build the project and the private sector pitched in another \$120 million.

Inside

4

Born on a Bayou

A new path is transforming neighborhoods across Houston.

6

Around Houston

While you're in town for APTA's Expo 2014, one thing is for sure: you won't go hungry.

8 & 29

Views from the Floor

Suppliers showcase their latest innovations.

13

Maximize Maintenance Efficiencies

Ensure you have the right parts, at the right time, in the right quantity and at the best cost.

16

Show Floor Map

Find what you're looking for on the show floor map for the 2014 APTA Expo.

24

A Smart Solution for Portland

TriMet is using new fare collection technology to enhance connections and rider experiences.

26

Expo Product Highlights

See what is on display at this year's Expo.





TWO BAYOUS converge in the area where the city of Houston was founded.

“We think we’ve done a pretty good job of capturing an idea and running with it,” Skelly said.

Once construction began on the path, it then started a whole new process of getting it built in a way to make sure residents got the most from the system. However, on a tour Spieler and Skelly helped lead Oct. 12 during the APTA Expo, they mentioned there are still plenty of gaps in connectivity along the lines.

“We as a city have had a lot of land to expand on over the years ... so we’re sort of a little too married to the single use of land,” Skelly said. “And when you come up with something like this idea, the trick is to get these different public agencies to come up with dual uses of land, so that requires a lot of coordination that can be unnatural at times.”

The gaps are being filled due to continued community support for the greenway. Spieler said they’ve worked to connect the poor areas of town like the near northside with jobs in the downtown area in order to make sure it’s not a system only for the affluent.

“This trail bypasses infrastructure that would be otherwise really difficult to cross on a bike,” he said.

Development is starting to sprout up in depressed areas of town along the greenway and at the elevated light rail station at Burnett Street, a new bus transfer point is planned along with a vision to cater more to bicycle parking than car parking.

It’s also cleaning up the bayous around Houston which have often been used by residents to dispose of trash because they now see the benefit of having healthy waterways.

“It all takes a while, but we’re going to get there,” Skelly said. 🚲



MICHAEL SKELLY explains the beginnings of the Bayou Greenways project.



CHRISTOF SPIELER spoke with riders along the Greenway Bayou System.



THE HOUSTON bayous have been neglected for years, but the greenway system is getting more people to care about the system.



HOUSTON'S B-CYCLE bicycle share system operates with private sector sponsorship.

HOUSTON Restaurant Guide

WHILE YOU'RE IN TOWN FOR APTA'S EXPO 2014, one thing is for sure: you won't go hungry. Houston has 8,000 restaurants representing cuisine from more than 35 countries and features options to fit any taste. Whatever it is you crave, there is an option to fit your desire.

Near McGowen Station

13 Celsius

3000 Caroline | (713) 529-8466 |
www.13celsius.com

Named for the optimal temperature for storing wine, this is a charming, European-inspired retreat. Set in a 1920s Mediterranean-style building, it features the extensive always-changing wine list and light bites.

Bar Munich

2616 Louisiana St. #103 | (713) 532-1008 |
www.barmunich.com

A neighborhood bar serving good German beers and simple food. They feature Houston's largest and freshest selection of Deutschland imports in draft and bottles.

Damian's Cucina Italiana

3011 Smith St. | (713) 522-0439 |
www.damians.com

For 30 years Damian's has served authentic Italian cuisine with an Old-World tradition. The extensive menu includes homemade pastas, fine meats and fresh seafood. Breads and pastries prepared daily in an upstairs bakery.

Gloria's

2616 Louisiana St. | (713) 360-1710 |
www.gloriascuisine.com

The first of 15 of their restaurants where Salvadorian meets Mexican. A modern yet elegant atmosphere includes award-winning margaritas and black bean dip.

Ibiza Food and Wine Bar

2450 Louisiana | (713) 524-0004 |
www.ibizafoodandwinebar.com

A party-like atmosphere with the "main show" being the open kitchen. The bold flavor profile comes from the blend of Spanish, Southern, Mediterranean and Southeast Asian influences.



Greater Houston Convention and Visitors Bureau

13 CELSIUS wine bar and retail shop stores its wine in an actual cellar, maintained at 13 degrees celsius.

Mongoose Versus Cobra

1011 McGowen St. | (713) 650-6972 |
www.mongooseversuscobra.com

A well-worn, slightly industrial yet homey feel, they strive to champion the most artfully and passionately made beer and spirits. Small bites of meats and cheeses are offered on the well-edited menu.

Nouveau Antique Art Bar

2913 Main St. | (713) 526-2220 |
www.art-bar.net

If you're looking for a drink in a unique setting, this bar displays one of the largest private collections of reproduction Tiffany lamps and features a variety of drink specials.

Pub Fiction

2030 Smith St. | (713) 400-8400 |
www.pubfiction.com

An urban tavern with a wide variety of drinks, food and roaring good times.

Reef Restaurant

2600 Travis | (713) 526-8282 |
www.reefhouston.com

Expertly prepared seafood with Gulf Coast, Mediterranean and Asian influences, it reflects culinary sophistication among Houston's high-profile restaurant scene.

FOLLOW US ON



Publisher John Hollenhorst
(800) 547-7377
Ext. 1650
john.hollenhorst@MassTransitmag.com

EDITORIAL

Editor Leah Harnack
(262) 391-8770
leah.harnack@MassTransitmag.com

Assistant Editor Joe Petrie
(800) 547-7377
Ext. 1399
joe.petrie@MassTransitmag.com

Contributing Editor Michelle
EauClaire-Kopier

Contributing Editor Erica
Schulz-Schueler

SALES

National Accounts Manager Sara-Emily Lange
(800) 547-7377
Ext. 1344
slange@MassTransitmag.com

List Rentals Elizabeth Jackson
(847) 492-1350
Ext. 18
ejackson@meritdirect.com

PRODUCTION

Production Director Steve Swick
Production Services Rep. Barb Evenson
Art Director Erin Brown
Art Director Kayla Burger

CIRCULATION

Circulation Manager Debbie Dumke

CYGNUS
BUSINESS MEDIA

CYGNUS BUSINESS MEDIA

CEO John French
CFO Paul Bonaiuto
VP Human Resources Ed Wood
VP, Audience Development Julie Nachtigal
VP Production Operations Curt Pordes
Executive Vice President Gloria Cosby
Vice President, Marketing Gerry Whitty
Group Publisher Larry Greenberger
Director of Digital Lester Craft
Business Development

Published by Cygnus Business Media,
1233 Janesville Ave., P.O. Box 803, Fort Atkinson,
WI 53538-0803, (920) 563-6388. For change
of address or subscription information: Toll
Free: 877-382-9187, Local: 847-559-7598,
Email: circ.masstranstit@omeda.com.

All rights reserved. No part of this publication can be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording or any information storage or retrieval system, without written permission from the publisher. Published and copyrighted 2014 by Cygnus Business Media.



Around HOUSTON

Pharmacy

Walgreens

1315 St. Joseph Pkwy #100
| (713) 658-0022

Maxor Pharmacies

1315 St. Joseph Pkwy |
(713) 759-9040

Park Drugs

1200 McKinney St. |
(713) 650-1610

CVS Pharmacy

1000 Elgin St. |
(713) 526-4478

CVS Pharmacy

917 Main St. |
(713) 982-5565

Coffee

Starbucks

2nd Floor of the
Convention Center |
(713) 853-8172

Ben's Beans

1302 Dallas St. |
(713) 654-8856

Amilles Coffee Bar

1301 McKinney St. |
(713) 739-0541

Visitors' Center

Explore Houston!

2nd Floor of the
Convention Center |
(713) 853-8258

Office Supplies

Houston Business
Products Co.

777 Walker St. |
(713) 225-8582

FedEx Office Print &
Ship Center

2nd Floor of the Convention
Center | (713) 658-1899



Scan the QR code to set
up a print order for flyers,
signs, posters and more.

STUCK BETWEEN A STOP AND A HARD PLACE.

This bus is running late.

Using AVL and GPS technology, you can track it, and you can inform drivers and riders of its lateness. But you can't get it back on schedule... or can you?

Opticom™ Transit Solutions have the power to put you back on track and keep you there. Opticom™ reduces transit delays and operating costs and minimizes general traffic congestion in your city.

Where do you want to go?

Opticom™ can help you get there.

Visit: www.gtt.com

Call: 800.258.4610

APTA Expo | Booth #4500

October 13-15th, 2014
George R. Brown Convention Center in Houston, TX

GLOBAL TRAFFIC TECHNOLOGIES



Cubic displays number of customer ticketing solutions

Cubic Transportation Systems | Booth 1845

CUBIC TRANSPORTATION
Systems had a number of new products on display at booth 1845 during APTA Expo, including the Urban Insights data analytics service and NextAgent Video Ticket Office.

Urban Insights data analytics service delivers data tools and predictive analytics to the transportation industry to improve operations, reduce costs and better service travelers.

“Urban Insights provides ticketing and scheduling data on how people travel, how and why they transfer at certain locations, and assists in planning decisions,” said Boris Karsch, vice president, Strategy and Business Development. “The system turns the data into information agencies can use.”

NextAgent Video Ticket Office provides customers personal ticket purchasing capabilities with an actual person from a remote location, who can interact with a connected customer.

The passenger speaks with the clerk throughout the ticketing process just as they would at a regular ticketing



THE CUBIC NextAgent Video Ticket Office can provide out-of-hours ticketing and pool specialists skills such as foreign languages or unusual ticketing requirements, allowing customers to interact with a real ticketing agent remotely.

window. The only difference being that the interaction takes place over a high-speed video link.

“[NextAgent] uses video confer-

ence technology to restore a personal touch to the customer experience. It’s designed to be used in stations, passenger change areas and shopping centers,”



SMART DEVICES, such as the newly introduced iPhone 6, can now be used together with the latest Cubic technology to streamline the process of utilizing one device, instead of a reloadable card, for customers to pay for fares, check transit account balances and more.



THE CUBIC booth featured a number of new and emerging customer ticketing solutions.



BOOTH #4923

LUMINATOR TECHNOLOGY GROUP

SAFETY & SECURITY CAMERA INTEGRATION




**INFOtransit System
with CAMERA**



**ODK4+
BACKUP CAMERA**

said Karsch. “It allows a real-life person to handle your inquiries, transactions and deal with advice on the best type of ticket. It does everything a ticket window can do, but creates more options.”

With the launch of the iPhone 6, smartphone users will now have the ability to utilize their iPhone as an NFC (near field communication) device. This technology provides users the ability to streamline the ticketing process, by using their device to transmit payment and add funds to a transit account, versus using a separate reloadable card.

On the horizon, Cubic has an “innovation corner” set up at the booth to display developing technologies, such as a gate that can automatically open with the use of Google glasses. “We’re exploring a lot of different ways to improve the customer experience,” said Karsh. “We still need to make sure that every person that travels can travel. That’s really our job, to give you options that match your everyday use.”

Ultracapacitors Save Energy, Reduce GHG Emissions

Maxwell Technologies
Booth 3906

AROUND THE WORLD, ON-BOARD

Energy storage systems are being implemented to collect unused energy usually lost during braking events for reuse during higher power demands during vehicle propulsion. The U.S. is behind in policy in relation to other parts of the world however, lacking a concrete energy plan to guide the development of future technology.

In the transportation industry, the world's largest energy consumer, ultracapacitors improve a vehicle's energy efficiency through regenerative braking systems. In stop-and-go transit applications, the savings for energy and fuel can be significant, as well as the emissions reduction for cleaner air.



CHUCK COOK, sales application engineer, Maxwell Technologies, in front of several of their ultracapacitor technologies on display at Expo 2014.


"There are a number of applications of that in the world today that use ultracapacitors for energy recuperation, primarily diesel-electric hybrid buses," said Chuck Cook, sales application engineer, Maxwell Technologies.

Braking energy recuperation systems in electric and hybrid vehicles save fuel and electrical energy by using resistance from the electric motor to stop the vehicle, thereby converting kinetic energy that would be wasted in a conventional friction-based braking system into stored electrical energy. Ultracapacitors' rapid charge/discharge characteristics uniquely enable them to capture and store more energy during each braking event than battery-based systems, which have limited ability to absorb energy in the few seconds required to stop a vehicle.

Maxwell partner — co-exhibiting at APTA 2014 with Maxwell Technologies — Crosspoint Kinetics makes bolt-on systems for trucks and light buses (Class 3-7). The bolt-on system,

The Kinetics Hybrid, puts the torque motor in line with the driveshaft to collect the energy during braking events

and give the energy back to the vehicle when needed while reducing greenhouse gas emissions. When applied

and driven correctly vehicles can see up to 30% greater fuel efficiency, and corresponding emissions reductions. 

Proven Technology.

Unmatched Support.

Every™ Engine.

On the road or on the rails, Cummins engines deliver the performance, reliability and efficiency that the public transportation industry demands. Our full range of diesel power starts with the proven ISB6.7 at 200 hp (149 kW) and goes up to 4400 hp (3281 kW) with the QSK95. We also offer natural gas and hybrid engines for urban transit buses — all backed by the largest, most capable service and support network in North America. For details, see us in Booth 4547, call 1-800-DIESELS™ (1-800-343-7357) or visit cumminsengines.com.



YouTube

©2014 Cummins Inc., Box 3005, Columbus, IN 47202-3005 U.S.A.

CradlePoint introduces rugged 4G LTE in-vehicle networking solution

CradlePoint | Booth 7520

CRADLEPOINT DEMONSTRATED the COR IBR1100 cloud-managed, in-vehicle networking solution at APTA Expo.

CradlePoint COR IBR1100 allows individual buses to process credit cards, power bus driver tablets, manage interior and exterior digital signage, power security cameras as well as deliver passenger and driver Wi-Fi.

"This product is powering that connected experience in buses and vehicles — everything from Wi-Fi to digital signage to GPS all on the vehicle — anything that needs to be connected to the Internet," said David Murray, senior marketing manager for CradlePoint.

The CradlePoint COR IBR1100 provides reliable and trusted wireless connectivity packaged in a compact and ruggedized case that endures extreme temperatures, high vibration, and wiring and electrical issues often found in vehicle deployments.

The COR IBR1100 series, like all CradlePoint networking solutions, can be managed via Enterprise Cloud Manager — a cloud-based, real-time monitoring, management and application solution for the entirety of the mobile data fleet.

Developed to withstand the challenges of the mass transit and in-vehicle networking markets, the CradlePoint COR IBR1100's features




THE CRADLEPOINT booth has a number of cloud-managed networking solutions for vehicles on display.



THE CRADLEPOINT COR IBR1100 is fully ruggedized to military specs and features 4G LTE capabilities.

high bandwidth and support of dual SIM card connectivity; full ruggedness to military specs to maintain operation during vibration and improved video streaming capability for transit security.

With the updated 4G LTE capabilities of the COR IBR1100, "Video can be stored locally on the bus," said Murray. "When it pulls into the dock at the end of the day the video is off-loaded via a Wi-Fi connection, so there's no manual process involved. Or it could stream over that 4G connection, which is also a possibility, but is a little more data-intensive."

The IBR1100 also features a more streamlined process for vehicle battery connectivity, with a built-in fuse box and simplified plug-and-go access to avoid worry with voltage drops or surges from the vehicle battery. 

Developing the Best Ride and Performance Package

ZF North America | Booth 3412

ZF NORTH AMERICA INC.'S JACK SKARREN, BUSINESS unit manager CV Transmission Systems North America, said ZF is in the business of producing products for mobility. "We have the expertise to match components to applications. When the vehicles hit the road, they perform reliably and efficiently."

ZF's North American market generates 18 percent of its sales — a result of its investment in the region. Andreas Moser, executive vice president Commercial Vehicle Technology Axle & Transmission Systems for Buses & Coaches with ZF, said they have ramped up business with MCI. Earlier this year they started series



ZF NORTH America Inc. highlights its mobility offerings for the North American bus and rail markets.

production on the steer axle, drive axle and tag axle on the MCI J coaches.

With agencies being forced to look at ways to cut dollars out of their budgets, Skarren said there is a lot of discussion on fuel economy. "It's the driving force of decisions being made," he stated. "We have transmissions that can improve fuel consumption." 

FLOOR CHATTER



Be social

Use [#APTAXpo](#) to join the conversation on Twitter! [@MassTransitmag](#)

Featured Tweets

COMTO NATIONAL

[@COMTO_National](#) @APTAXpo info COMTO is here in Houston at the #APTAXpo. Visit us at booth 7505 and booth 7604 on the top floor.

JOYCE TSE

[@joycetse](#) Day 2 of #APTAXpo - don't forget to stop by to check out the life size lite brite wall. #FeelLikeAKidAgain

ANGELA MILLER

[@ecologyIT](#) #APTAXpo #sustainability meeting. One of the most successful APTA teams in last 5 years, but time to move past #energy to the #social pillar

PARSONS BRINCKERHOFF

[@ExpoLive4Trans](#) "technology is big and will be bigger" in what we do for customers, Mike Allegra, [@RideUTA](#) #APTAXpo: This video at booth #3023.

ZACH SWANSON

[@swanson_design](#) Great faces and great products @ #APTAXpo in Houston, TX.

CHRISTOPHER ANDREWS

[@chrisandrewsCDA](#) Learning more about Complete Streets from [@SmartGrowthUSA](#) here at #APTAXpo.

JUDE KIAH

[@JudeKiah](#) So much to learn - even after six times! #APTAXpo

DASH BUS

[@DASHBus](#) DASH is on display at the APTA Expo this week! #APTAXpo #APTAXpo2014 #DASHBUS

Our name has changed, but our superior performance continues.



We continue to lead the industry with innovative, customer-focused solutions to strengthen transit, paratransit and rail operations in more than 200 cities and communities in the U.S. and Canada.



Veolia Transportation has changed its name to Transdev

Visit us in **Hall E, booth 5237** on the APTA EXPO Convention Floor

transdevna.com



Designed for the Highway: Safe and Comfortable for Commuter Service

Motor Coach Industries
Booth 2837

MOTORCOACH INDUSTRIES (MCI) brought its latest generation of commuter to Expo, showing transit agencies the greenest, safest and most reliable coach model on the market.

Only MCI currently manufactures a commuter coach which is Buy America-compliant, Altoona-tested and available in clean-diesel, hybrid



THE MCI buses for Metro include a Sportswork bike rack where the luggage compartment is on a coach, protecting the bikes on highway driving.



HOUSTON METRO recently ordered 95 coaches from MCI.



THE NEW MCI coaches for Metro include features for additional passenger comfort, including Kiel North America Avance 2010 seating for 55 passengers.

and CNG options. Designed for the highway, the MCI Commuter Coach offers a high-floor design and rugged semi-monocoque structure that elevates passengers and drivers well above traffic. Forward-facing seating and advanced safety features such as electronic stability control provide comfortable, secure trips. As cities, suburbs and exurbs plan commuter service expansions, the MCI Commuter Coach offers an optimal package, combining the low total cost of operation with maximum seating capacity, reliability and safety.

"MCI is leading the evolution in high-speed commuter express as metro areas expand," said Patrick Scully, MCI executive vice president of Sales and Marketing. "Each year, commuters grow more sophisticated about the safety, comfort and environmental stan-

dards they'll need to give up their passenger cars. We think our lineup of MCI Commuter Coaches will convert drivers to coach as never before."

At the MCI booth, attendees had the chance to inspect one of Houston Metro's clean-diesel coaches, part of a recent 95-coach order for MCI. Metro has ordered an impressive set of features, including Kiel North America Avance 2010 seating for 55 passengers, a Transmark Mobile View nine-camera color surveillance system, 110-volt power outlets with USB plugs at every seat, and Sportworks bike rack. **MT**



New High Capacity
Dual Turbo-2000
air dryer from SKF

doubles your air flow output

Like the original Dual Turbo-2000 for extreme compressor duty cycles, SKF's newest model keeps air systems clean and capacity high with two desiccant cartridges and an intricate oil removal system that removes even the finest oil residue. But the new H.C. Dual Turbo-2000 is designed for even greater compressor size to meet the air flow output needs of high output compressors required on 2010 transit bus engines, (80 scfm and up to 40% compressor duty cycle). So now you have more ways than ever to meet your fleet needs. Easy to install and service; reduces fleet downtime.

YouTube www.skfpartsinfo.tv @skfpartsinfo

www.vsm.skf.com

© Copyright 2014 SKF Group

SKF



Donny Lehnhardt
National Sales Manager
Telco Sensors Inc.
Charlotte, N.C.

“We’re new to the industry in North America, so we’re looking for opportunities and contacts with manufacturers and transit authorities. We’re fighting a mentality in the U.S. of ‘don’t fix it unless it’s broken.’ We do sensors for door obstruction detection ... but in the U.S. it doesn’t seem to be a priority, so we’re fighting a cultural slant. We’re looking to show people the advantages and drive specifications from transit authorities to start requesting sensors on doors.”



Maximize Maintenance Efficiencies

By Jim H. Davis

Ensure you have the right parts, at the right time, in the right quantity and at the best cost.

PERFORMING SCHEDULED PREVENTIVE MAINTENANCE (PM) AND predictive maintenance (PdM) activities on incoming equipment to a centralized repair facility, such as rail transportation equipment, surface transportation vehicles, or assigned fleet vehicles, is one of the most important, if not the most important, set of activities that an organization can apply as part of an overall asset care and reliability program.

THE BENEFITS ARE MANY, SUCH AS:

- Repair/replacement of worn items/parts due to usage, time in service, normal wear and tear and/or abuse. (Typically, these are predetermined patterns and conditions easily corrected by scheduled PM's). This could/should also include scheduled cleaning and sanitation activities as well.
- The identity of possible or impending failures not normally found or covered in scheduled time-based or calendar-based PM's can either be repaired while the unit is already in the repair facility or put on a watch list for further monitoring, in-the-field checks and inspections for addressing at a later time. (Typically, predetermined patterns and conditions can easily be found by performing non-invasive and timely PdMs).

Unit Event	Activity	Responsibility	Results
In-field checks and inspections.	Identifies key conditions or operating characteristics that require attention, investigation or remedy.	Operations, security, janitorial or other personnel.	Possible safety, security or mechanical (operational) issues are found and reported to the CRF well ahead of the next scheduled visit.
Pre-determined PM and PdM tasks are pulled from the CMMS/EAM system in advance of the next scheduled visit.	The maintenance planning function extracts the next round of PMs/PdMs due for a given unit(s) along with any additional maintenance work requests that have been triggered for resolution in Step No. 1.	Maintenance planning and scheduling personnel and operations scheduling personnel.	All work needed to be done on the incoming unit(s) is verified, pre-planned for time and materials (if not already existent in the computer files) for the required timeframes, personnel requirements and for MRO spare parts and materials. After proper planning of these upcoming tasks, the requirements for personnel, tooling and equipment and MRO spare parts is communicated to the appropriate supervision and/or affected departments.
Required maintenance staffing, tooling and equipment are scheduled for the appropriate work week, day and shift.	Maintenance supervision and planning coordinates their efforts to fully prepare for the next round of scheduled work triggered from the above activities.	Maintenance planning and scheduling personnel.	A published plan is put in place to ensure that all required work tasks are distributed and properly communicated to those who need to know.
Material (spare parts) reservations are activated in the CMMS/EAM to trigger the formal requests for parts and supplies.	This sends advance notice to the MRO procurement chain department for the upcoming materials requirements for the next round of scheduled repairs. Typically, pick tickets would be used to schedule the materials needed for the proper time, and eventually convert the CMMS/EAM reservations into actual allocations assigned to specific maintenance work order numbers. This is where good bills of materials files can improve accuracy and save a lot of valuable time.	Maintenance planning and scheduling. Very long lead time parts will have to be acknowledged and communicated much earlier in the process.	The storeroom and the procurement department can begin verifying the need for parts and materials to ensure that they are available at the time needed and in the correct quantity. This requires timely conversion of purchase orders, appropriate expediting — where needed — and efficient receiving and put-away. Very long lead time parts will have to be acknowledged and communicated much earlier in the process. Or, consideration given to normal stocked status for these hard-to-get, long-lead parts and materials.
Material requests for MRO spare parts and supplies are forwarded to the storeroom and/or procurement department for resolution.	This would include the above activity, plus the pre-preparation of needed purchase requisitions for parts not normally stocked or stocked in the current needed quantity.	Maintenance planning and scheduling. Very long lead time parts will have to be acknowledged and communicated much earlier in the process.	The storeroom and procurement department can begin verifying the need for parts and materials to ensure that they are available at the time needed and in the correct quantity. This requires timely conversion of purchase requisitions to purchase orders, appropriate expediting — where needed — and efficient receiving and put-away. Very long lead time parts will have to be acknowledged and communicated much earlier in the process. Or, consideration given to normal stocked status for these hard-to-get, long-lead parts and materials.
The next weekly or bi-weekly schedule for all maintenance work is finalized, released and published the week or two prior to the next scheduled work week.	This then becomes the official schedule for the next work week and thus puts into play all pre-plans and associated schedules for labor and material requirements.	Maintenance planning and scheduling.	At this point the storeroom can begin parts picking, kitting, staging and delivery activities in time with the work efforts to be accomplished.
Emergency or last-minute work needs are identified.	Changes to the schedule and all labor and material requirements are adjusted as need be. These last-minute changes are duly noted and eventually addressed by the maintenance and MRO improvement team to mitigate future occurrences as much as possible.	Maintenance planning and scheduling, MRO improvement team and management.	This will probably trigger the need for some emergency expedited orders, additional unit costing and associated freight charges.
All informational data is entered into the CMMS/EAM system for future reference.	This may also trigger the opportunity to add/change/delete various work elements or activities, or how they are processed and handled.	Maintenance planning and scheduling, MRO improvement team and management.	Hopefully, a better, more efficient and effective process next time around.

- Pre-scheduled and pre-planned work allows for faster and more efficient turn-around times to get needed equipment back into service.
- Improved performance and utilization of the units, until the next scheduled repair center visit.
- Increased overall safety of operations due to resolving

operational or other issues before they occur in service and effect other units.

- Pre-scheduled and pre-planned repair center visits provide windows for equipment upgrades.
- A sound asset care and reliability program extends the service life of the equipment to maximize ROI.

TO ACCOMPLISH AND FULLY REALIZE THE MANY BENEFITS NOTED ABOVE REQUIRES:


- Attention to detail
 - Standardized policies/procedures
 - Management and staff support and involvement
 - Data and equipment history files
 - An optimized CMMS/EAM software system
 - Effective and efficient work requirements, tasks and activities
 - On-hand MRO parts and supplies
 - Proper tools and repair equipment
 - Training for all personnel involved
- The key to efficiency and effectiveness of required checks, inspections, calibrations, repairs, upgrades and modifications is good planning and scheduling.

THIS PROVIDES THREE MAJOR ADVANTAGES:

- Knowing when a unit is due for a scheduled centralized repair facility (CRF) visit so that it can be appropriately routed in the general direction of the destined facility and the provisioning of a replacement unit to provide uninterrupted service while the scheduled unit is offline for due service.
- Maintenance and other needed personnel, along with needed support tooling and equipment, can be appropriately staffed and scheduled.
- MRO spare parts, supplies and materials can be acquired in advance (utilizing the appropriate JIT approach for that given operation) to further ensure that the parts and supplies needed are on hand, in the quantities needed and ready for issue to the appropriate job work order.
- A sample scenario of how this could all come about for the best effectiveness and efficiency: see chart on page 13.

If you can't get the right parts, at the right time, in the right quantity at the best overall costs, it will result in:

- Excessive downtime
- Lost revenue
- Expedited/excessive purchasing and freight costs
- Overtime
- Rework

Have documented policies, practices and procedures, standardized methodologies; accurate job descriptions; defined roles and responsibilities; accountability; good data; and well-trained personnel. 

Jim Davis is VP sales/business development for Performance Consulting Associates Inc.



Find out how Continental is making traveling by bus more efficient, comfortable and safer.

When traveling by bus, everyone wants to arrive safe and sound. A vehicle that's equipped with the right components is the first step to ensuring safe travel.

Continental supports you with innovative and sustainable solutions for busses and motor coaches. We take the needs of bus companies and motor coach operators as seriously as those of drivers and passengers.

That's why we develop products that make traveling by bus safer, more efficient and more comfortable. Our ground-breaking Driver's Workplace, ProViu 360 degree camera systems, innovative instrumentation and control systems are all examples of what Continental has to offer.

Learn more about how Continental helps you drive towards a safe and successful future.

Visit us at our APTA booth #4813

For additional information, contact:
salessupport-us@continental-corporation.com
or call: 800-564-5066

www.continental-corporation.com
www.vdo.com/usa

VDO - Trademark of the Continental Corporation

WELCOME

Exhibiting at
APTA: **Booth 4813**

VDO



SERIES-E: THE SMART ELECTRIC

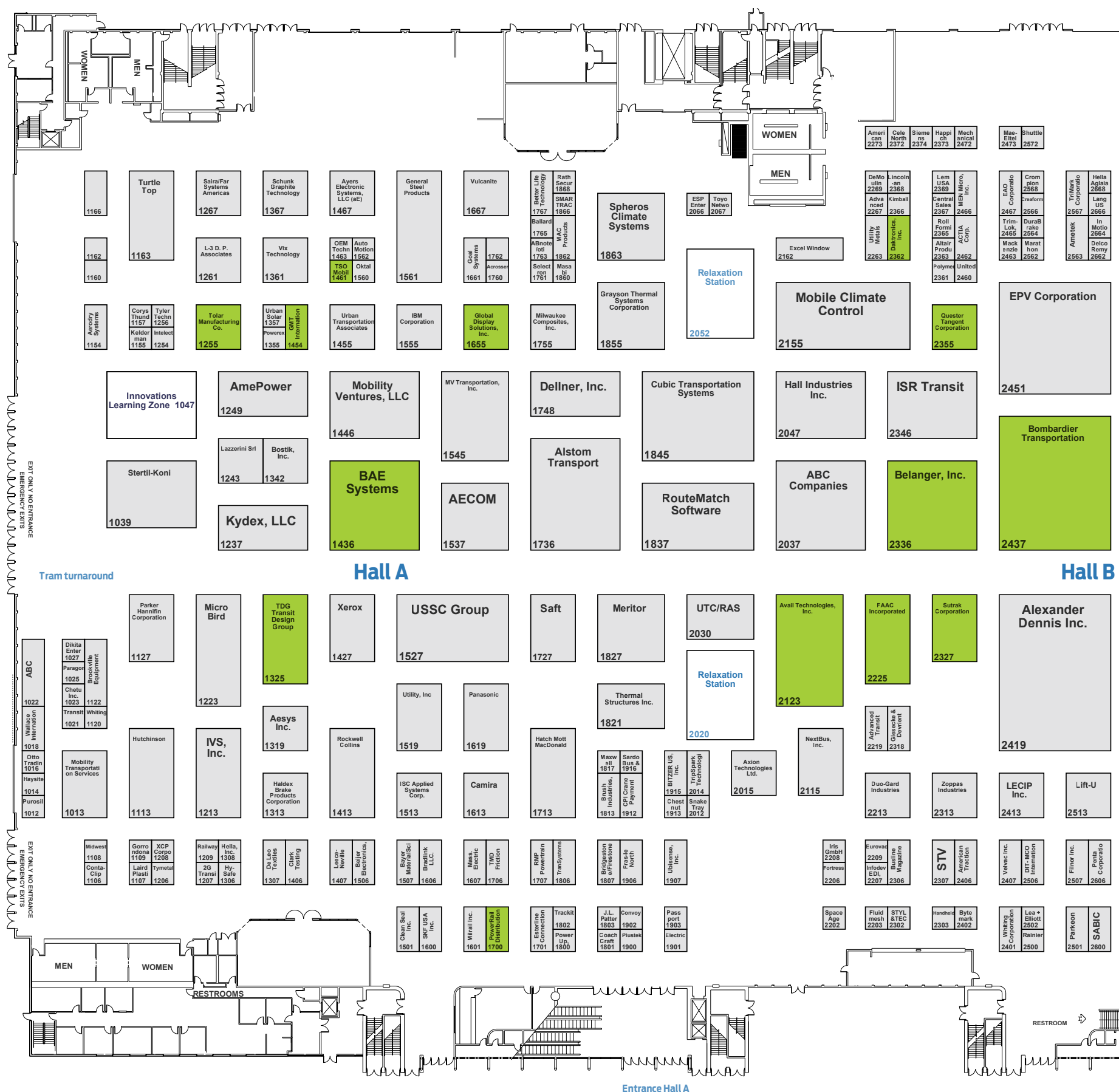
Series-E is transit's smart electric, delivering:

- Zero-emission travel where and when you need it
- GPS enabled engine-off technology
- An electric bus at a fraction of the cost

Get smart at www.hybridrive.com



Hall A / B / C



APOLLO
Apollo Video Technology
www.apollovideo.com

Booth 2829
www.apollovideo.com
888-AVT-USA1 (888-288-8721)



avail
TECHNOLOGIES, INC.

Booth 2123

www.availtec.com

814-234-3394

BAE SYSTEMS

HybridDrive
PROPULSION SYSTEMS

Booth 1436

www.hybriddrive.com

607-770-2083



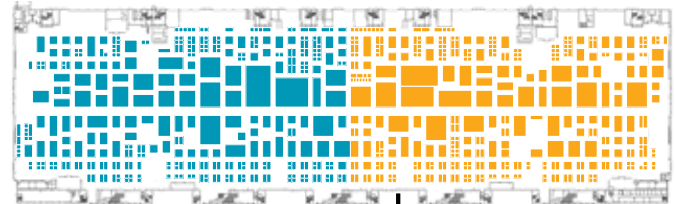
Booth 2336
www.belangerinc.com
248-349-7010



Overview of Halls A / B / C / D / E

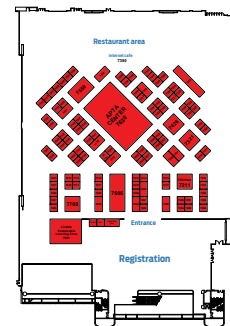
Page 16 & 17

Page 18 & 19



To Plaza 3

Overview of Plaza 3



Page 20

Company	Booth Number
2G Transit Solutions, Inc.	1207
3M IATD	7421
4D Security Solutions, Inc.	5149
4ONE Seating	1527

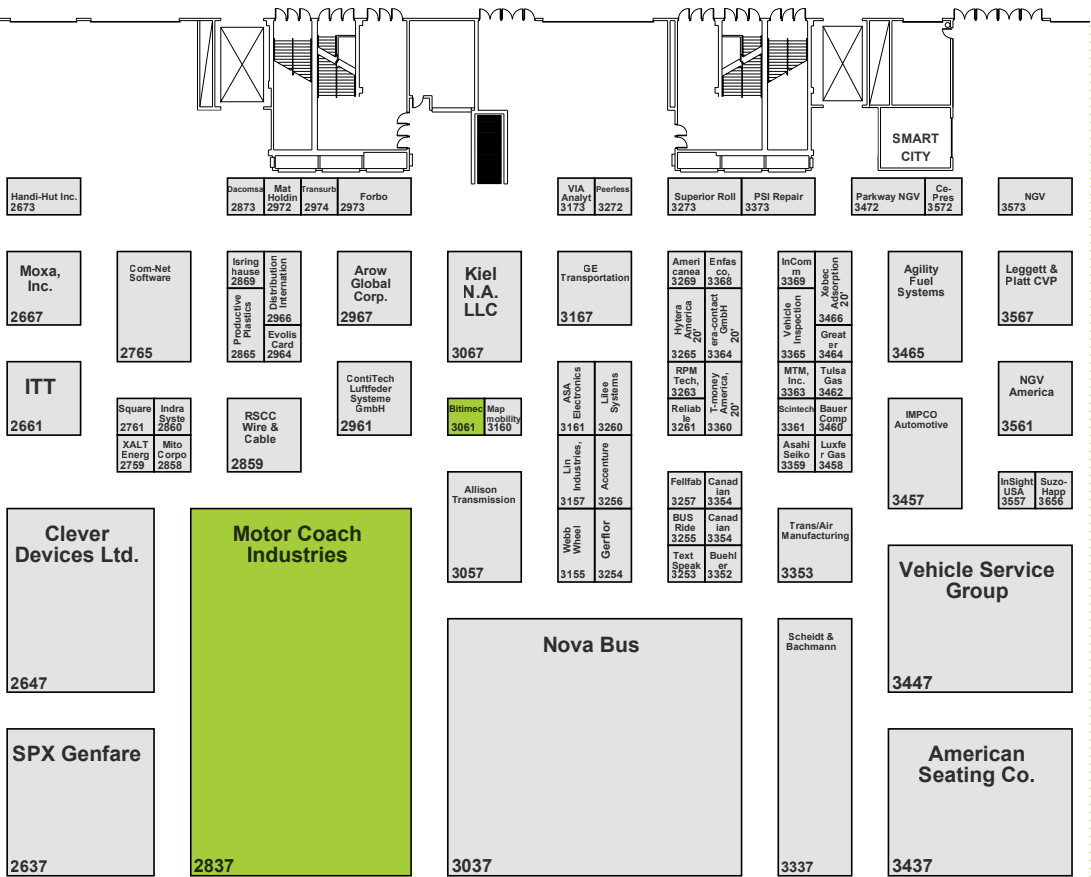
A	
A1 Alternative Fuel Systems	3669
ABB Inc.	5513
ABC Companies	1022, 2037
ABnote/oti	1763
ACAF Systems	4474
Acapela Group	3748
ACC Climate Control Inc	4107
Accenture	3256
Access Products Inc.	2807
Acentech, Inc.	4503

ACKSYS Communications & Systems	3651
Acoustical Surfaces, Inc.	4951
Acro Industries Incorporated	4273
Acrosser USA	1760
ACT Traffic Solutions Inc.	6067
ACTIA Corp.	2462
ADA Solutions, Inc.	4601
Adams & Westlake, Ltd.	5523
Ades Technologies	3750
Advanced Interconnect Mfg	2267
Advanced Transit Manufacturing	2219
AdWheel	7650
AECOM	1537
AEP Hybrid Power	7434
Aerodry Systems LLC	1154
Aeros USA	4458
Aesys Inc.	1319
AFL	3801
AFV Natural Gas Fuel Systems	3754
Agent Vi	4113
Agility Fuel Systems	3465
AKG of America, Inc.	3500
Alcatel-Lucent	2603
Alexander Dennis Inc.	2419
AlliedBarton Security Services	3401
Allison Transmission	3057
Alstom Transport	1736
Altair Engineering Inc.	2363
Altro Transflor	3129
AmePower	1249

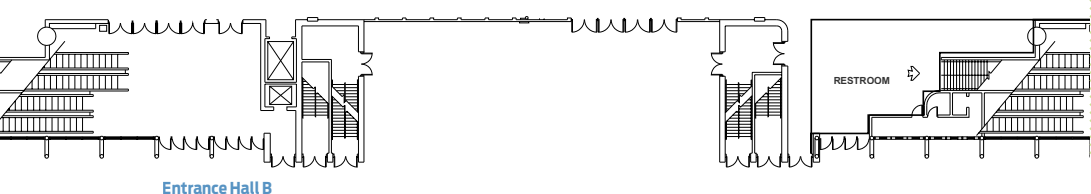
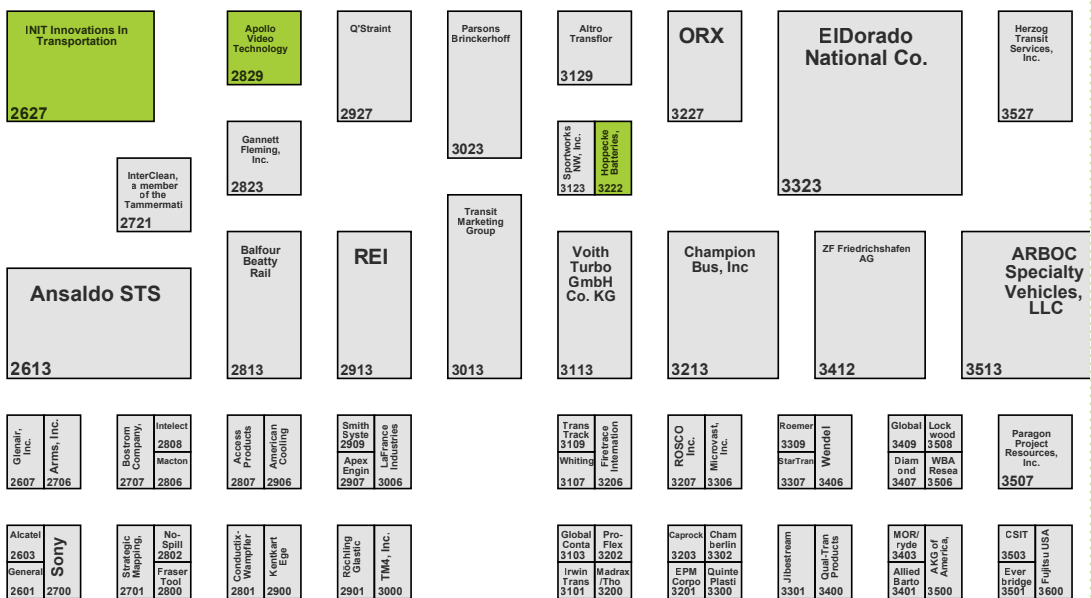
American Cooling Technology, Inc	2906
American Double Decker Buses	3713
American Seating Co.	3437
American Traction Systems	2406
American Truck Wash Systems	2273
Americaneagle.com	3269
Ametek	2563

B

Bach-Simpson - A Wabtec Company	5223
BAE Systems	1436
Balfour Beatty Rail	2813
Ballard Power Systems	1765
Barber Spring - A Wabtec Company	5223



Hall C



Booth 3061

www.bitimec.com
203-637-1900

BOMBARDIER
the evolution of mobility

Booth 2437

www.bombardier.com
450-441-2020



Booth 4547

www.cumminsengines.com
812-343-0598



Booth 3815 & 2362

www.daktronics.com/masstransit
800-833-3157

Hall C / D / E

Go to page 18 for the rest of Hall C floorplan and Halls D and E





Bartlett & West, Inc.	5913
BASF Corporation	3773
Bauer Compressors, Inc.	3460
Baultar Concept, Inc.	4421
Bayer MaterialScience LLC	1507
BBA Project, Inc.	5713
BBM - Railway Equipment	3623
BEA Inc.	4607
BEA Transit Technologies	4718
Beclawat Manufacturing Inc.	4807
Beijer Electronics, Inc.	1506
Belanger, Inc.	2336
Bentech Inc.	3706
BESI Inc.	4767
Better Life Technology LLC	1767
BikeLid LLC	5206
Bitimec	3061
BITZER US, Inc.	1915
Bombardier Transportation	2437
Borflex	3848
Bostik, Inc.	1342
Bostrom Company, H.O.	2707
Bradlink LLC.	1606
Brasco International Inc.	4313
Braun Corporation, The	3613
Bremskerl North America, Inc.	4008
Bridge Access Specialties	6013
Bridgestone/Firestone	
Mileage Sales	1807
Bridj	5002
Brookville Equipment Corporation	1122
BRS Labs	5765
Brush Industries, Inc.	1813
Buehler Motor, Inc.	3352
Bus Stuf, Inc.	4264
Busline Magazine	2306
BUSRide Magazine	3255
BYD Motors Inc	5437
Bytemark	2402

Clear-Vu Lighting	7405
Clements National Company	4429
Clever Devices Ltd.	2647
CNG Cylinders International	3762
CNG Equipment Solutions	3772
Coach Glass	5464
CoachCrafters	1801
Col-Met Spray Booths	4501
Comark Corporation	5600
Community Transportation Association of America	7739
Com-Net Software	2765
Complete Coach Works	4845
Composite Panel Solutions	3800
COMTO	7505
Conductix-Wampfler	2801
Conta-Clip Inc.	1106
Continental Corporation	4813
ContiTech Luftfeder Systeme GmbH	2961
Convoy Technologies LLC	1902
Corys Thunder	1157
CPI Crane Payment Innovations	1912
CradlePoint	7520
Creaform	2566
Creative Bus Sales, Inc.	3960
Crompton International	2568
Crouzet Switches North America	5661
CSIT	3503
Cubic Transportation Systems	1845
Cummins Inc.	4547
CycleSafe Inc.	7416

D

D&W Diesel, Inc.	4602
Dacomsa SA de CV	2873
Daimler Vans USA LLC	6059
Daktronics, Inc.	2362
Daniels Manufacturing	4963
Data Display USA	3815
Davco Technology LLC	4262
Daytech Limited	4512
De Leo Textiles	1307
Delco Remy	2662
Dellner, Inc.	1748
DeMoulin Apparel	2269
Deuta Werke GmbH	3722
Devismes	3749
DiagnoSYS Systems, Inc.	5613
Diamond Manufacturing Inc.	3407
Diesel Radiator Co.	5706
Digi International	7711
Digital Recorders, Inc.	2647
Dikita Enterprises	1027
DILAX Systems Inc.	4829
Dina Camiones	5837
Distribution International HP Inc.	2966
DIT- MCO International	2506
Dixie Electric Ltd.	4367
DLL Inc.	6066
Donaldson Co, Inc.	6060
Doron Precision Systems Inc.	4619
Double Map	5565
DriveCam	5503
DTI Group Ltd	4101
Duagon AG	5569
DuBois Chemicals	5967
Duo-Gard Industries	2213

Hall E

C

C.E. Niehoff & Co.	3900
C.E. Shepherd Co. L.P	7741
CAF USA, Inc.	4713
CalAmp	5501
Cambridge Systematics Inc	4514
Camira	1613
Canadian Urban Transit Association	3354
Caprock Mfg.	3203
CBM N.A.	3753
CCI Thermal Technologies	5500
Cele North America	2372
Central Sales & Service, Inc.	2367
Centralp	3747
Ce-Pres LLC	3572
Cetest	4466
CG Automation Solutions USA	5360
CH2M HILL	4707
Chamberlin Rubber Company	3302
Champion Bus, Inc.	3213
Chestnut Ridge Foam Inc.	1913
Chetu Inc.	1023
Clark Testing	1406
Clean Cities - US Dept. of Energy	7611
Clean Energy Fuels	3755
Clean Seal Inc.	1501
Cleaning Systems, Inc.	7306



Booth 1454
www.gmt-international.com
770-459-5757



HOPPECKE
POWER FROM INNOVATION

Booth 3222
www.hoppecke-US.com
856-616-0032, ext 14. Cell: 215-939-7531



Booth #7734

www.iix.com
800-683-8553

DRIVER RISK MANAGEMENT



Booth 2627

www.initusa.com
757-413-9100

Plaza 3



DuraBrake Co.	2564
Durr Technik USA	4660

E

EAO Corporation	2467
EastBanc Technologies	5365
Easter Seals Project ACTION	7713
Eastern Pneumatics & Hydraulics, Inc.	5200
Eaton	4201
Eberle Design Inc.	5202
EBM-Papst	4461
e-Builder, Inc.	7311
Ecolane	5261
ElDorado National Co.	3323
Electric Motion Company, Inc.	1901
Electro-Motive Diesel	5249
ELREG Distributors Ltd.	5907
EMCOM Systems	4406
EMP	4727
Energy Suspension	4359
Enfasco, Inc.	3368
Engnhouse Transportation	3916
Enseicom, Inc.	5637
Entertainment	6006
Envision	7450
EPM Corporation	3201
EPV Corporation	2451
era-contact GmbH	3364
ESP Enterprises Inc.	2066
Espar Products Inc.	4163
Esri	4567
Esterline Connection Technologies & Power Systems	1701
Eurovac (Clean Air Technologies)	2209
Everbridge	3501
Everson Tesla Inc.	4765
Evolis Card Printer	2964
Excel Window Systems/Dura Automotive	2162

F

FAAC Incorporated	2225
Faiveley Transport USA, Inc.	5825
Federal Transit Administration	7705
Fellfab	3257
Felton Brushes	4600
Felton Inc.	6009
Felnor Inc.	2507
Firetrace International	3206
First Transit, Inc.	3629
Flame Enterprises	4958
Fluidmesh Networks	2203
FMNA Fire Suppression	1527
Forbo Flooring Systems Ltd.	2973
Fortress Systems International	2206
Fraser Tool and Gauge	2800
Fras-le North America, Inc.	1906
Freedman Seating Co.	1527
FSX Equipment Inc.	5506
Fuel Solutions	3865
Fuji Electric Corp. of America	5559
Fujitsu USA	3600

G

Gannett Fleming, Inc.	2823
Garavelli Enterprises, Inc.	3973
GE Transportation	3167
GEA Refrigeration	4207
General Cable Corporation	2601

Keolis

Booth 4837

www.keolisnorthamerica.com

844-RIDE-KEOLIS

MASS TRANSIT
BETTER TRANSIT THROUGH BETTER MANAGEMENT

Booth 5806

www.MassTransitmag.com

1-800-547-7377



Reliability Driven™

Booth 2837

www.mcicoach.com

866-MCI-COACH



NS WASH
SYSTEMS
www.nswash.com

Booth 3837
www.nswash.com
877-NSWASH-1

General Steel Products	1561
Genetec	4462
Gerflor	3254
Getex Corporation	6007
Getzner Werkstoffe GmbH	3873
Giesecke & Devrient	2318
Gillig LLC	4337
GIRO Inc.	5049
Glaval Bus	6051
Glenair, Inc.	2607
Global Contact Services	3103
Global Display Solutions, Inc.	1655
Global Finishing Solutions	3409
Global Traffic Technologies	4500
GMT International Corp.	1454
Goal Systems	1661
Gorronдона & Associates	1109
Gray Ram Tactical, LLC	7527
Grayson Thermal Systems Corporation	1855
Greater Houston NGV Alliance	3464
GreenPower Motor Company Inc.	7228
GreyHawk	2647

H

Hadley Products Corporation	4267
Haldex Brake Products Corporation	1313
Halfen USA Inc	5460
Hall Industries Inc.	2047
Handheld	2303
Handi-Hut Inc.	1806
Hands On, LLC	4200
Hanover Displays Inc.	5627
Happich GmbH	2373
HARTING, Inc. of North America	5429
Hatch Mott MacDonald	1713
Haysite Reinforced Plastics	1014
Heico Lock	5362
Hella Aglaia Mobile Vision	2668
Hella, Inc.	1308
Herzog Technologies, Inc.	6018
Herzog Transit Services, Inc.	3527
Hexagon Lincoln	3655
High Five Advertising, L.L.C.	4864
Hill International	4307
Hoppecke Batteries, Inc.	3222
Houston Metro	7404
Hubner Manufacturing Corp.	4448
Hug Engineering	7332
Huitt-Zollars Inc.	4000
Hunt Guillot & Associates, LLC	3768
Hunter Technology/eHunus, Inc.	5364
Hutchinson	1113
Hybmm Overseas	5529
Hydrogenics	6045
Hy-Safe Technology	1306
Hytera America	3265

I

I/O Controls	4560
IBM Corporation	1555
ICOP Technology Inc.	6064
id metalco, Inc.	7438
iix	7734
Imeco Cables inc.	4002
Impact Recovery Systems, Inc.	7508
IMPACO Automotive	3457
IMPulse NC LLC	4637
In Motion Technology,	

a Sierra Wireless Company	2664
InComm	3369
Indra Systems, Inc.	2860
Ineo Systrans	5745
Infodev EDI, Inc.	2207
Infor	7305
INIT Innovations In Transportation	2627
InnoTrans 2016 - Messe Berlin GmbH	3972
InSight USA	3557
Insta-Chain Inc.	5809
Integrated Strategic Resources LLC	4802
Intelect Corporation	1254, 2808, 4308, 4559
Intellectual Concepts, LLC	7641
InterClean, a member of the Tammermatic Group	2721
Intergraphics Decal Ltd.	4906
International Name Plates Supplies Ltd.	4712
IP Displays	7651
IPS Lynx Inc.	7529
Iris GmbH	2208
Irwin Transportation Products	3101
iSafe Technologies	5602
ISC Applied Systems Corp.	1513
ISR Transit	2346
Isringhausen, Inc USA	2869
ITSMAX Solutions, Inc.	7413
ITT	2661
IVU Traffic Technologies AG	3337

J

J.L. Patterson & Associates	1803
Jibestream	3301
Jones & Frank	3774
J-W Energy Company	3766

K

Kaonsoft, Inc.	1762
Kawasaki Rail Car Inc.	5412
Kelderman Manufacturing	1155
Kelox IRT USA LLC	5467
Kentkart Ege Elektronik Ltd	2900
Keolis	4837
KIC LLC	5668
Kidde Technologies Inc.	4659
Kiel N.A. LLC	3067
Kimball Midwest	2366
Kirk's Automotive Inc.	4109
KLI Inc.	5208
Knoedler Mfg.	7647
Knorr Brake Company, LLC	3921
Koshii Maxelum America, Inc.	3700
Kratos Public Safety & Security Solutions, Inc	4406
Kraus Global Inc.	3874
Kydex, LLC	1237

L

L-3 D. P. Associates	1261
LaFrance Industries	3006
Laird Plastics Transportation	1107
Lang US	2666
Lanner Electronics Inc.	4006
Lantal Textiles Inc.	3729
Lazzerini Srl	1243
Lea + Elliott Inc.	2502
LECIP Inc.	2413
LED Smart	5062
Leece-Neville Heavy Duty Systems	1407
Leggett & Platt CVP	3567

Lem USA	2369
Leroy Automation	3751
Let's Bus It Publications Inc.	4928
Lift Solutions, Inc.	3903
Lift-U	2513
Lilee Systems	3260
Lin Industries, Inc.	3157
Lincoln- an SKF Group Brand	2368
Lockwood, Andrews & Newnam Inc.	3508
Logena Automotive LLC	4817
LS Gallegos & Associates Inc	4703
Lucerix International Corp	5009
Luminator	4923
Lutze Inc.	4506
Luxfer Gas Cylinders	3458

M

M.A.I.O.R Srl.	5358
MAC Products Inc.	1862
Mackenzie Laboratories Inc.	2463
Macton Corporation	2806
Madrax/Thomas Steele	3200
Mae-Eltel Inc.	2473
MAFELEC	4409
MAN Engines & Components, Inc.	3723
Mapmobility Corp.	3160
Marathon Brake Systems	2562
March Networks Corporation	5859
Mark Weiss Associates	7526
Maruti Fleet and Management, LLC	7605
Masabi	1860
MASATS SA	4865
Mass Transit Magazine	5806
Mass. Electric Construction Co.	1607
MasterCard	7840
Mat Holdings Inc.	2972
Matrix Railway Corp.	5507
Mattei Compressors, Inc.	4173
Maxwell Industries	1817
Maxwell Technologies	3906
Mayser Polymer USA, Inc.	5919
McDonald Transit Associates, Inc.	5813
Mechanical Rubber	2472
Medeco Security Locks	5007
MEN Micro, Inc.	2466
Meritor	1827
METRO Magazine	4206
MGM Brakes	5137
Michelin North America	5327
Micro Bird	1223
Micro-Design	3673
Microphor - A Wabtec Company	5223
Microvast, Inc.	3306
Midwest Bus Corp.	3907
Midwest Industrial Supply, Inc.	1108
Milrail Inc.	1601
Milwaukee Composites, Inc.	1755
Mito Corporation	2858
Mitsubishi Electric Power	4525
Mobile Climate Control	2155
Mobile Fueling Solutions	3872
MobileView	3013
Mobilitat	5908
Mobility Transportation Services	1013
Mobility Ventures, LLC	1446
Modine Mfg. Co.	3966
Mohawk Lifts	6012
Mohawk Mfg. & Supply Co.	5718

Monogram Systems Train	5201
MOR/ryde International	3403
Morgan Advanced Materials	5725
Mors Smitt - A Wabtec Company	5223
MotivePower - A Wabtec Company	5223
Motor Coach Industries	2837
Moxa, Inc.	2667
MTM, Inc.	3363
Multi-Contact USA	5819
MV Transportation, Inc.	1545
Myers Controlled Power	4613

N

National Complete Streets Coalition/ Smart Growth America	7427
National Transit Institute	7432
Nederman Inc.	5006
Networking Lounge, Sponsored by BYD Motors Inc	5056
Networking Lounge, Sponsored by ESP Enterprises Inc.	2052
Networking Lounge, Sponsored by IBM Corporation	2020
New Flyer Of America	4037
NEXCOM	5400
NextBus, Inc.	2115
NGV America	3561
NGV Solutions	3573
NICE Systems	4413
Nightstick by Bayco Products, Inc.	4769
Nishiyama Corporation of America	5407
nora systems, Inc.	5619
Nord-Lock Inc.	4520
North American Bus Industries Inc.	4248
No-Spill Systems Inc.	2802
Nova Bus	3037
NS Corporation	3837
NXP Semiconductors	6168
Nylok LLC	4637

O

Odyssey Battery by EnerSys	7744
OEM Technology Solutions	1463
Oktal	1560
Omni Gear	7746
OMNOVA Solutions Inc.	4903
O'Neil & Associates, Inc.	5306
Operation Lifesaver, Inc.	7838
Optronics International	3912
Oran Safety Glass, Inc.	4761
ORX	3227
Otto Trading Inc	1016

P

Panasonic	1619
Panorama Antennas, Inc.	7510
Paragon Identification	1025
Paragon Project Resources, Inc.	3507
Parkeon	2501
Parker Hannifin Corporation	1127
Parkway NGV Conversions	3472
Parsons Brinckerhoff	3023
Partex Marking Systems	4460
Passport Parking	1903
Pavemetrics	4568
PCS Power Converter Solutions	5401
Pearce Sales Agency- Aspro Compression Systems	3863
Peerless-AV	3272



Booth 1700
www.epowerrail.com
570-883-7005

QUESTERTANGENT
Delivering Train Electronics

Booth 2355
www.QuesterTangent.com
855-510-7837



Booth 2327
www.sutrakusa.com
303-287-2700



Booth 1325
www.tdgdesign.com
888-248-0666

Penasack Machine Co.	5622
Penn Machine Co.	5737
Penta Corporation	2606
Phoenix Contact	4667
Pittsburgh Electrical Insulation	5367
PKS Lifts	4608
Plastic Components, Inc.	4369
Plustek Technology Inc.	1900
Plymovent Corporation	3914
Polymer Technologies	2361
Powell Electrical Systems	3913
Power Trunk	5951
Powerbox	6015
Powerex, Inc.	1355
Powerohm Resistors	4372
PowerRail Distribution	1700
PrecisionAir LLC	4161
Prelco	4807
Prevost	3037
Principle Partnering Group, LLC, The	4706
Productive Plastics	2865
Pro-Flex Inc.	3202
Proheat	4260
Propane Education & Research Council	3707
Pro-Tac	4700
Proterra	5037
Protran Safety Technology, Inc.	3965
PSB Industries	3861
PSI Repair Services, Inc.	3373
Public Group, The	7304
Public Transportation Safety International	4415
Purosil	1012
Pursuit of Excellence, Inc.	5369

Q

Q'Straint	2927
Qual-Tran Products	3400
Quester Tangent Corporation	2355
Questica, Inc.	5363
Quinte Plastics Ltd.	3300

R

R.C.A. Rubber Co., The	4959
Railroad Friction Products Corp. - A Wabtec Company	5223
Railway Equipment Co.	7444
Railway Gazette International	1209
RailWorks Corporation	3607
Rainier Richlite Co.	2500
Rath Security	1868
RATP Dev	5912
Recaro North America	4259
REI	2913
Relaxation Station, Sponsored by CH2M Hill	5118
Reliable Transmission Service	3261
Renold	4361
REO-USA Inc.	4300
Retlif Testing Laboratories	5760
Reveal Management Services	7409
Ricon Corporation - A Wabtec Company	5223
Ride Systems	7212
RideCell	7333
Rigidized Metals Corp.	7512
RMES Communications Inc.	4606
RMP Powertrain Solutions	1707
Robotronics, Inc.	3809
Röchling Glastic Composites	2901
Rockwell Collins	1413
Roemer Industries	3309
Rogers Corporation	4516

Roll Forming Corporation	2365
Rollon Corporation	6039
Romeo RIM Inc.	4473
Ron Turley Associates Inc.	5263
ROSCO Inc.	3207
Ross & White Co.	5719
RouteMatch Software	1837, 7504
ROV Developpement	3649
Royersford Spring Co.	4419
RPM Tech, Inc.	3263
RSCC Wire & Cable	2859
RSM Services	5423

S

S & A Systems Inc.	5130
SABIC	2600
Safe Fleet - Featuring Transpec, Pretoria and Specialty Manufacturing	3827
Safeguard Technology Inc.	5058
Safety Vision, LLC	4647
Saft	1727
Saira Americas, Inc.	1267
Sander Electronics	7738
Sardo Bus & Coach Upholstery	1916
Scantron	5906
Schaltbau	4653
Schaltbau North America	4653
Scheidt & Bachmann	3337
Schindler Elevator Corp.	4464
Schunk Graphite Technology	1367
Scintech Associates Inc.	3361
Scoma	3850
Seats Incorporated	5265
Secheron SA	5459
Secura	7628
Sefac, Inc.	3919
Selectron Systems AG	1761
Semec Electromecanique, Inc.	5917
Sensor Electronics	4469
Sentry360	4472
Seon Design Inc.	4059
Service Wire Co.	5965
Shah Software	5060
Shaner Industries	6008
Sherwood Electromotion Inc.	4301
Shuttle Wagon	2572
Siemens Industry, Inc.	4223
Siemens Industry, Inc. - Rail Automation	5927
Siemens RUGGEDCOM	2374
Singlepoint Communications	5664
Sintron Technology Corp.	5466
SKF USA Inc.	1600
SmartDrive Systems Inc.	3901
SMARTRAC Technology Group	1866
Smartrend Supply	4365
Smith Systems Inc.	2909
Snake Tray	2012
Sony	2700
Southwire Company	5807
SpaceAge Synthetics, Ltd.	2202
Spacecraft Components	4202
SPAL Automotive USA	4564
Spheros Climate Systems	1863
Spinner II Products/TF Hudgins Inc.	4268
Sportworks NW, Inc.	3123
SPX Genfare	2637
Square	2761
StarTran Software LLC	3307
Staubli Corp.	5819
Stertil-Koni	1039
StrataGen Systems, Inc.	4561

Strategic Mapping, Inc.	2701
Streamax Technology Co. Ltd.	4902
STV	2307
STYL&TECH Inc.	2302
Sunbelt Rentals	4407
Sunland Group	6166
Superior Roll Forming	3273
Surveying and Mapping, LLC	7429
Sutrak Corporation	2327
Suzo-Happ	3656
Swayzer Engineering Inc.	4306
Swiger Coil Systems - A Wabtec Company	5223
Syncromatics	4524
SYSTRA	4862

T

Tactical Micro	4851
TAPTCO	3807
Taylor Made Glass	5707
TC Communications	4868
TDG Transit Design Group	1325
Tecolote Research, Inc.	4803
Telco Sensors	5300
Teleste Corporation	4465
Televic Rail	5207
Ten Point Trim	4860
Tesmec USA	4908
Texas A&M Transportation Institute	7609
TextSpeak Audio Products	3253
TFI Cableflex	4702
Thales Transport & Security, Inc.	5451
Thermal Structures Inc.	1821
Thermo King Corp.	3851
Thingtech LLC	7407
TM4, Inc.	3000
TMD Friction	1706
T-money America, Inc. (Korea Smart Card)	3360
Tolar Manufacturing Co.	1255
Toncom Outdoor Furniture	7313
Toshiba Corporation	5213
Total Plastics Mass Mobility	4922
Toyo Denki Seizo K.K./Toyo Denki USA, Inc.	5759
Toyo Networks & System Integration	2067
Trackit	1802
Traction Systems Inc.	5301
Trans/Air Manufacturing	3353
Transdev North America	5237
Transit Associates	7321
Transit Cooling Solutions	1021
Transit Marketing Group	3013
TransIT Solutions (TSI)	5650
Transitvue Communication Systems	4519
TransitWorks	5865
Trans-Lite	4167
Translite Enterprises Inc. - Bus Glass Distributors	4658
Transport Products	5307
Transportation Diversity Council	4417
Transportation Learning Center	7745
Transportation Technology Center Inc.	4823
TransTech - Power Transfer Systems	5607
TransTrack Systems	3109
Transurb Technirail	2974
Trapeze Group	3637
Trillium CNG	4127
Trim- Lok, Inc.	2465
TriMark Corporation	2567
TripSpark Technologies	2014
Tru Simulation & Training	7446
Truck Trailer Transit	3959
TSI/SBL	4845

TSO Mobile	1461
Tulsa Gas Technologies, Inc	3462
Turbonetics - A Wabtec Company	5223
Turtle Plastics	7339
Turtle Top	1163
Tyler Technologies	1256
Tymetal Corp.	1206

U

UBIFRANCE	3647
Ubisense, Inc.	1907
UGPTI	7635
UITP	7426
UKM Transit Products	4961
United Streetcar/Oregon Iron Works	2460
Unwire	7645
Urban Engineers	4507
Urban Solar Corp.	1357
Urban Transportation Associates	1455
Uremet	3601
US Hybrid Corporation	4509
USSC Group	1527
USSC Seating	1527
UTC/RAS	2030
Utility Metals	2263
Utility, Inc	1519

V

Valeo	4859
Vanner, Inc.	4400
Vapor Bus International - A Wabtec Company	5223
Vapor Stone Rail Systems - A Wabtec Company	5223
Vehicle Inspection Systems, Inc.	3365
Vehicle Service Group	3447
Velodome Shelters	7626
Velvac Inc.	2407
Ventek International	5961
Ventura Systems Inc. North America	5851
VIA Analytics	3173
Visual Marking Systems Inc.	4528
Vix Technology	1361
voestalpine Nortrak Ltd.	7740
Voith Turbo GmbH Co. KG	3113
Voltabox of Texas, Inc.	5665
Vossloh North America	4013
vRide Inc.	7732
Vulcanite	1667

W, X, Y, Z

Wabtec Corporation	5223
Wabtec Passenger Transit - A Wabtec Company	5223
Wabtec Railway Electronics - A Wabtec Company	5223
Wallace International	1018
WBA Research	3506
Webb Wheel Products	3155
WEH Technologies Inc.	3758
Wendel	3406
Westermo Data Communications	4425
Western Sierras Inc.	5725
Westmatic Corporation	5112
Westport	3759
Whiting Corporation	2401
Whiting Door Manufacturing Corp.	3107
Whiting Systems Inc.	1120
Windhoff Bahn- und Anlagentechnik GmbH	5725
Winnebago Ind. Inc.	4065
Woojin IS America, Inc	4513
Wooster Products Inc.	7528
Worthington Cylinders	3867
WTS International	7342
XALT Energy, LLC	2759
XCP Corporation	1208
Xebec Adsorption Inc.	3466
Xerox	1427
xperion Energy & Environment GmbH	3663
Yokohama Industries Americas	3701
ZF Friedrichshafen AG	3412
Zonar Systems	4662
Zone Defense	7810
Zoppas Industries	2313

**Booth 1255**

www.tolarmfg.com

951-808-0081 USA Toll Free 800-339-6165

**Booth 4922**

www.totalplastics.com

800-866-8844

**Booth 1461**

www.tsomobile.com/PT

877-477-2922



SHAPING THE EVOLUTION OF MOBILITY

Bombardier invites you
to our exhibit at APTA's EXPO 2014
where we will:

- Showcase the state-of-the-art technologies of our rail car for San Francisco BART's "Fleet of the Future"
- Demonstrate the features of our Crash Energy Management System in the popular *BOMBARDIER BiLevel* commuter rail car
- Present the measurable benefits of our World Class Operations and Maintenance Program.

**We look forward
to seeing you
at Booth #2437
in Hall B.**



www.bombardier.com
BOMBARDIER and BiLevel are trademarks of Bombardier Inc. or its subsidiaries.

BOMBARDIER
the evolution of mobility



NEW FARE media gives a comprehensive look at rider patterns.

Photos by TriMet

A Smart Solution for Portland

TriMet is using new fare collection technology to enhance connections and rider experiences



DAKTRONICS

&



**D·A·T·A
DISPLAY**
A DIVISION OF DAKTRONICS

THE INDUSTRY LEADERS IN
DYNAMIC TRANSIT SIGNAGE

**VISIT US AT APTA BOOTHS #3815 AND
#2362 TO VIEW OUR FULL-COLOR,
MONOCHROME, LED AND LCD PRODUCTS.**

800-833-3157
DAKTRONICS.COM/MASSTRANSIT

WHEN IT COMES TO cutting-edge technology, TriMet rises to the top as one of the most progressive agencies in the country. As it looked for a mobile ticketing solution. The agency became the first in the U.S. to implement mobile ticketing across bus and rail. The inertia of the mobile ticketing launch was followed in 2014 by the contract with Init for the implementation of an open payment and smart card e-fare system.

The TriMet project required a solution that would seamlessly integrate with its already existing ITS systems and infrastructure, as well as ensure multi-client capability. This aspect was needed to provide access for other agencies to join the e-fare structure in the future. Another requirement included the necessity for a comprehensive back-office system that could define individual agency parameters, while at the same time protect the exchange of important data.

Open application programming interfaces (API) and third-party



TRIMET'S FARE solution can be shared with other agencies to create a regional fare media.

system integration were also critical to the success of the entire system. These components would help ease the arduous task of connecting the agency with retail partners and suppliers, and would provide passengers with outlets to purchase the media to utilize the new fare system.

TriMet's e-fare project includes the implementation of ID-based smart cards and an open payment fare structure for the use of bank cards.

With ID-based smart cards, the card is linked to a rider's account where their information and subsequent fare calculations are processed. The rider's identification and payment information are safely stored in the back-office system.


The use of ID-based cards will benefit TriMet planners by providing a more comprehensive view of anonymous riding patterns. This data will help the agency tailor services around high-usage times and locations. ID-based smart cards will reduce boarding times and use of cash fares, as well as improve operational performance.

In addition to ID-based smart cards, Init will implement an open payment fare structure for TriMet using the EMV (Europay, MasterCard, Visa) contactless payment standard. Using Init's proximity readers, a bank card is tapped on the terminal which then communicates the transaction in real-time with Init's back-office system, Mobilevario. All forms of mobile payment will be accepted at the fare readers.

Once implemented, the system will integrate with several third-party systems and include open API. These interfaces will be made available to external partners, including an extensive retail network. This will give TriMet's passengers the ability to

The systems are multi-client capable, so other transportation providers can be added for a region-wide fare structure. TriMet is considering extending the system to the Portland

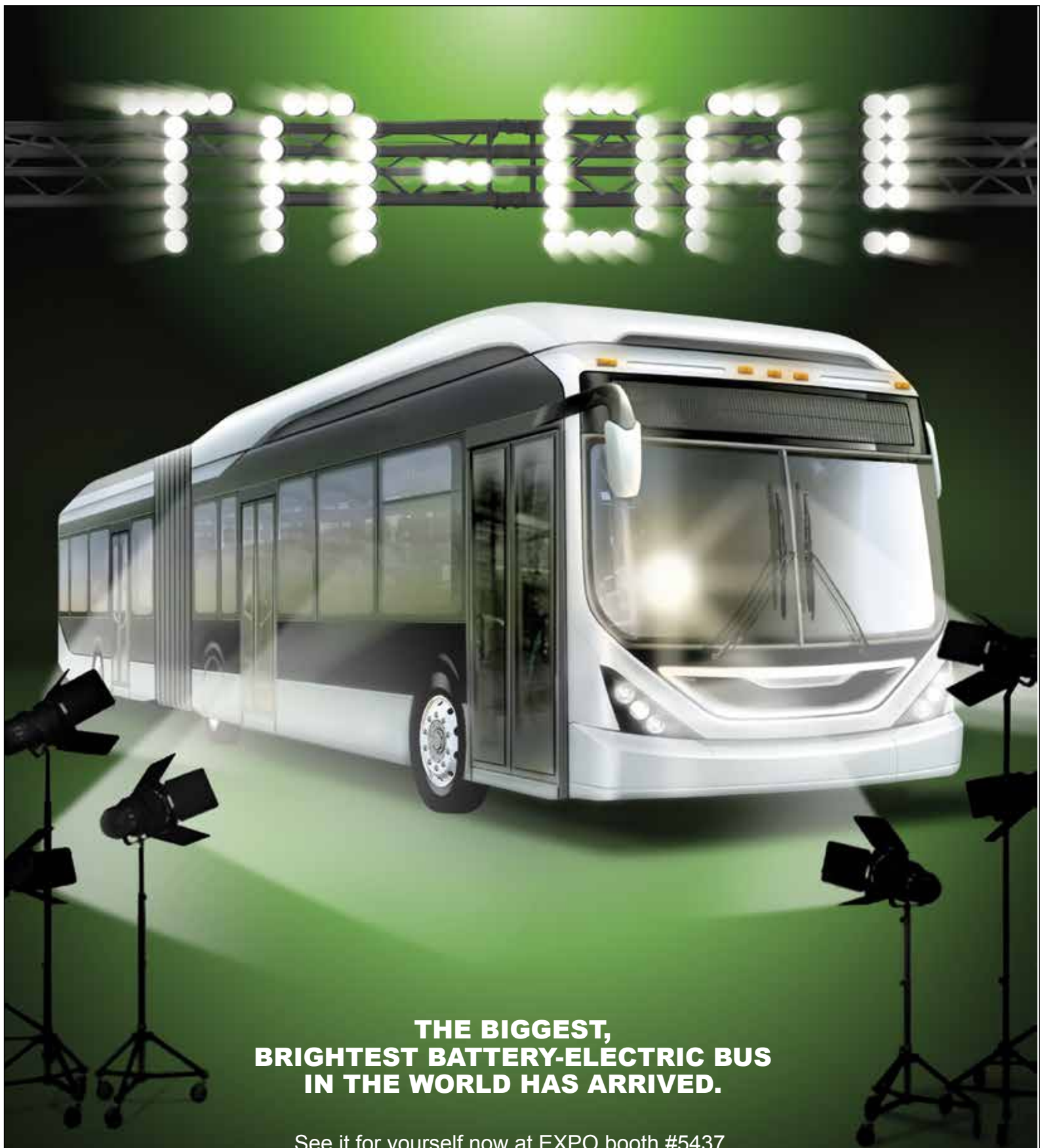
Streetcar and Vancouver, Washington, where it could incorporate transportation services provided by the Clark County Public Transit Benefit Area Authority (C-TRAN).

TriMet is a trail blazer and the city of Portland reaps the benefits. The result will be a smoother, economically managed transit network and increased transportation services. 



open new or top up existing accounts through several hundred retail stores conveniently located throughout the city.

Another open interface will give the agency access to a powerful CRM solution, and yet another will provide access to third-party ticket vending machines. In total, there will be eight open APIs serving more than a dozen integration projects.



**THE BIGGEST,
BRIGHTEST BATTERY-ELECTRIC BUS
IN THE WORLD HAS ARRIVED.**

See it for yourself now at EXPO booth #5437.



Build Your Dreams

Expo Product HIGHLIGHTS



FlexPlay Pro 7: Icon-Driven Playback Software with Driver Report Card

AngelTrax | Booth 1213

Designed as a completely self-managed driver coaching system, FlexPlay Pro 7 eliminates the need for a third-party solution and monthly fees.

View surveillance video in two interchangeable playback modes each, featuring familiar icons for easy navigation of the footage.

FlexPlay Pro 7 displays footage and report card for reference in identifying driver improvements. Personalize each report card with driver-specific notes of behavior modifications or improvements. Each driver report card can be saved and output as several file types — complete with embedded metadata — for employee files, driver incentive documentation or future comparisons.

FlexPlay Pro 7's standard mode features GPS routing displayed side-by-side with video footage for an overall view of the trip, including speed, stopping points and event markers. Fleet directors can target specific signs of potential trouble.

The Stertil-Koni Ecolift: Ideally Suited for Heavy-Duty Lifting at Transit Agencies of All Sizes

Stertil-Koni | Booth 1039

Stertil-Koni's Ecolift is recognized as the original ultra-shallow, full-rise, in-ground axle engaging lifting system.

Ecolift has a hydraulic lifting system that reaches a maximum lifting height of 70 inches in 80 seconds. It uniquely combines high-pressure, low-volume hydraulics.



Recipient of two U.S. patents, Ecolift is available in a 2-scissor or 3-scissor, with total lifting capacity of 60,000 lbs. and 90,000 lbs. A tandem configuration is possible, with a

lifting capacity of up to 120,000 pounds and every configuration provides transit agency's wheels-free lifting to maintenance facilities.

In addition, because it has an installation depth of just 34 inches, Ecolift is the answer to a broad range of heavy-duty lifting situations. It is well-suited for servicing transit buses and other vehicles with low clearance. In addition, Ecolift delivers an unparalleled combination of superior lifting matched with an environmentally friendly design to the transit industry.

First Transit Technology Strengthens Paratransit Services

First Transit | Booth 3629



First Transit is committed to providing safe and reliable paratransit services. First Transit has worked with client passengers and technology developers to create software applications to meet the needs of paratransit passengers. First Transit introduced one of the newest products in its suite of information products. Info-Client, a Paratransit Travel Companion, is a scalable mobile solution designed to keep passengers in touch with their paratransit service. Using First Transit's Info-Suite architecture, this mobile application allows passengers — from any smart mobile device or computer — to enter a unique ID and a personal password for a safe, secure connection to their service information.

The Paratransit Travel Companion utilizes scheduling and real-time information from the authority's scheduling systems. The information display can then be customized by the transit authority and used for branding.



VISIT US AT APTA! Booth No. 4922

INNOVATIVE MATERIAL SOLUTIONS for the mass transit marketplace



LEXAN™ Tough
Polycarbonate Sheet
Virtually Unbreakable

LEXAN™ sheet products are designed to help manufacturers create aesthetically-pleasing, lightweight components which deliver cost-effective and efficient production and resistance to graffiti and vandalism.

- UV protected
- Comprehensive certification
- Anti-vandal glazing
- Excellent acoustic performance
- Safe and easy installation
- Extremely high impact resistance
- Safe fire performance

FEATURED MATERIAL LEXAN™ H6500 Sheet for interior components

LEXAN H6500 sheet is an opaque, solid, low-gloss polymer blend that delivers high stiffness for railway sidewalls, tables and seating.

Total Plastics Mass Mobility specializes in FRA-approved transportation-grade material. We are an authorized stocking distributor of LEXAN™ Sheet Products.

toll free: 800.866.8844
massmobility@totalplastics.com
www.totalplastics.com



First/Last Mile Solutions: Bike Shelters Complete the Transit Connection

Duo-Gard Industries | Booth 2213

We have applied our knowledge and experience to develop a variety of standard bike shelter models, including architectural-designed shelters.

Bike shelters and parking are highly visible and are a reflection of your commitment to a more sustainable environment for your riders. Designated parking is more orderly, prevents damage to trees and street furniture and prevents bikes from blocking the sidewalk.

With our custom-designed shelters, a custom structure doesn't necessarily mean a custom price. If you envision something different than one of our standard models, our ability to design and engineer the structure using either aluminum or steel, gives us the flexibility to manufacture exactly what you want at a reasonable cost.

BYD Introduces 60-foot, Battery-Electric Transit Bus

BYD Motors Inc. | Booth 5437

BYD Motors Inc. is introducing the latest in its series of zero-emissions fleet vehicles — the first long-range, 60-foot-long, battery-electric transit bus.

This 60-foot articulated BYD bus was designed in the U.S. out of BYD Motor's Los Angeles research and development site and manufactured at the BYD Electric Bus manufacturing site in Lancaster, California.

The first model built for the U.S. Federal Transit Administration (FTA)-sponsored Altoona testing can be viewed at APTA Expo before it leaves for demonstrations and the Altoona test tracks in December.



Thermo King Displays HVAC Solutions

**Thermo King Corp.
| Booth 3851**

Thermo King products help transit operators meet energy efficiency and sustainability objectives. It has been providing a range of HVAC solutions for buses since 1956. The company understands that one size doesn't fit all so it focuses on the customer's needs to develop customized, value-added solutions.

Thermo King products help transit operators meet energy efficiency and sustainability objectives. These products include the fuel efficient Screw Compressor, the IntelligAir III microprocessor with advanced diagnostics and J1939 CAN-BUS communication capability, long-life brushless motors, electronic capacity control for reciprocating compressors and a full line of all-electric HVAC systems for buses.

The IntelligAir III is the third generation advanced microprocessor control and communications technology that provides improved diagnostics and troubleshooting and reduces setup time for installing and changing program files.

Our all-electric bus HVAC solutions use less fuel by eliminating the effect of variable engine RPM on load and demand, provides optimum air conditioning capacity at all bus speeds and dramatically improves reliability with a reduced number of maintenance items. They use the energy-efficient R-407C refrigerant.



DRIVE THE BETTER WAY

Specializing in coach and transit applications, ZF's axle systems and independent suspensions answer the needs of manufacturers and their customers around the globe. ZF introduced its first double-wishbone independent front suspension for coaches in 1992. The latest IFS from ZF is the RL 80 E which is manufactured in the US and features Bendix disc brakes. The RL 80 E enables a high wheel cut of up to 60 degrees providing optimum maneuverability. A high level of wheel deflection and reduced body roll offers superior safety and ride quality. The A 132 drive axle achieves low noise levels through specially ground bevel gears – a hallmark of ZF's axle systems. With ZF you drive better, no matter where you're going.

www.zf.com/buses



MOTION AND MOBILITY



Come and visit us
at the APTA EXPO in Houston, TX
from October 12 – 15, 2014
Booth 3412





New Panasonic 720p and 1080p Cameras with Optional Modules Deliver Crystal Clear Images and Unmatched Versatility

Panasonic Corp. of North America | Booth 1619

Panasonic System Communications Co. of North America announced two new HD and full HD indoor fixed-network cameras with modular options.

Further expanding its 6 Series i-PRO camera lineup, the new full HD 1080p (WV-SPN631) and HD 720p (WV-SPN611) models deliver advanced image processing capabilities and exceptional video quality and clarity for a wide range of video surveillance applications. The new fixed-network cameras support two optional modules. The first module (WV-SPN6FRL1) adds IR illumination to the camera to enable capture of clear images in low light or complete darkness, illuminating up to 100 feet with infrared light. The optional RS-485 communications module (WV-SPN6R481) enables camera control of third-party pan-tilt positioners and RS-485 communications.

Leveraging Panasonic's advanced, next generation UniPhier LSI processors, new 6 Series cameras deliver high definition video images in 1080p resolution and up to 133dB of dynamic range thanks to its enhanced super dynamic and adaptive black stretch (ABS) technologies, making the cameras ideal for use in challenging lighting conditions.

Seon Features Two New Mobile Surveillance Offerings

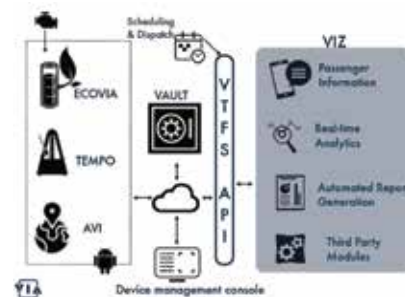
Seon Design Inc. | Booth 4059



Seon has two new mobile surveillance offerings. A new compact, high-resolution digital video recorder (DVR), the Trooper TL-HD, and a new Web-based version of Seon's video management software, vMax Commander (v5.0).

The TL-HD is a compact, yet full-featured DVR offering pristine recording of four analog and one high-definition camera views at 30 frames per second simultaneously across all five channels. Packed with powerful features, such as an inertia sensor which triggers an alarm in dangerous driving conditions, it is also GPS-ready to provide the exact vehicle location and route at the time of video recording. The TL-HD's dual streaming feature allows recording a high-quality version of the event while providing a low-resolution stream for viewing live video over a low-bandwidth cellular network. It is also Wi-Fi-ready for automatic video downloading without having to go out to the bus to physically retrieve video.

In vMax Commander Version 5.0, Seon introduces a Web version of its video management software designed to drastically reduce the time and effort required to locate, download and review video of an onboard incident.



VIA Analytics Launches Four New Products

Via Analytics | Booth 3173

Via Analytics simultaneously launched four new products in time for Expo.

On the vehicle side, Via transit synchronization system, Tempo is a proven solution to keep even spacing between vehicles while maintaining high system speeds. It runs as an app on inexpensive, networked Android tablets, giving drivers simple visual guidance to coordinate routes in real-time.

Via introduces two more tablet applications to complement Tempo.

Via is helping vehicle-side applications with the release of an open, cloud-based analytics platform. Via states that releasing analytics tools open-source represents a fundamental shift in how the transit industry turns data into useable information to enhance service.

Releasing VIZ open source means agencies can freely use, view and modify the underlying source code. In addition to reducing financial costs compared with proprietary software, open source comes with a number of other benefits.



More Economical, More Flexible and More Comfortable: ZF Chassis Technology for Low-Floor Buses

ZF North America | Booth 3412

New axle technologies can work to accommodate low-floor buses and higher axle loads.

ZF is rolling out a new axle generation for low-floor buses in two stages. Modifications were made to the advanced driven axle back in 2011. Due to integration of functions for consoles and screw connections, the AV 133 will already be much lighter yet provide increased performance compared with the AV 132. The new low-floor portal axle already makes heavy-duty applications easier since it is designed for higher torques.

The further developed RL 82 EC low-floor front axle is also an answer to increasing weight due to more requirements with emission standards or driveline electrification. ZF adjusted the RL 75 EC independent suspension via design changes and by using high-strength steel. The load at the front axle thus increased by up to 700 kg to 8.2 tons.



Power Rail Solutions for 3rd Rail, 4th Rail, Monorails. Shoresafe/Stinger Systems

Conductix-Wampfler's Global Transit Division is a world-class proven supplier of aluminum transit power rail and safe stinger systems. Our solutions and innovations have propelled us to be your partner of choice.

Welded Cap Rail: Provides superior wear resistance, low electrical resistance, high strength and stiffness, corrosion resistance, and low life cycle costs.

Shoresafe/Stinger Systems: To power trains in maintenance depots; Interlocked systems, plug status indicators, ability to use existing train connections, emergency stop for individual zones or entire station.

Power Rail Impact Analysis System (PRIAS): Provides information and data on collector/shoe gear impacts, system voltage at all points on the line, individual & total current at all points on the line, system trend analysis to guide preventative maintenance programs.



Visit us at
APTA Expo
Booth: 2801

CONDUCTIX
wampfler
DELACHAUX GROUP

10102 F Street • Omaha, NE 68127-1104 • 800-521-4888 • www.conductixtransit.com

Cummins booth features extensive engine lineup, including 95L, 4,400 HP QSK95

Cummins | Booth 4547

A COMPREHENSIVE ENGINE PRODUCT LINEUP FOR both transit bus and rail markets is on display at the Cummins Inc. booth 4547 during APTA Expo.

The Expo marks the first time that products serving transit bus and rail markets have been jointly displayed in North America, featuring engines ranging from 6.7L to 95L.

On display for the first time at Expo, the high-output 16-cylinder high-speed diesel QSK95 locomotive engine features up to 4,400 hp (3281 kW).

“[The QSK95] was recently named the prime mover for the Siemens Charger diesel-electric passenger locomotive, winning a 35-unit initial order operating across five states,” said Glen Rees, business manager – Rail Business.

Cummins has also partnered with All Aboard Florida, a private passenger line from Orlando to Miami, with a phase-one order that includes 10 units.

“Outside of the passenger market, we are engaged in a locomotive repower project. It’s going to be operating on the Indiana Railroad. We’re partnering with another Indiana company to work on this product,” said Rees.

Cummins also has established dedicated engineering to the bus segment, separate from trucking and freight haul. Sheif Abou-Rayyan, chief engineer – Global Bus Segment is focused on analyzing this segment to produce more efficient products for the transit industry.

“The bus duty cycle tends to be urban areas and cities, so you have a lot of idling. The start/stop technologies wouldn’t make much sense if you’re hauling goods,” said Abou-Rayyan. “You’re also moving people, which has does have some requirements for comfort.”



THE QSK95 16-cylinder 95L engine provides up to 4,440 HP.



CUMMINS' BOOTH features a number of bus and rail engines on display.

FLOOR CHATTER



Be social

Use [#APTAXpo](#) to join the conversation on Twitter! [@MassTransitmag](#)

Featured Tweets

SENTRY360

[@Sentry_360](#) Fits in the palm of your hand. See our award winning 14 megapixel camera at Booth 4472 [#APTAXPO](#) [#APTAXpo2014](#)

PRICE

[@pricearmstrong](#) Mobility Mgmt Comm. looking for ways to empower Millennials who want to ditch their cars. No hope for Boomers? [#aptaexpo](#)

KEOLIS NORTH AMERICA

[@KeolisNA](#) Are you the best engineer at [#APTAXPO](#)? Prove it at booth #4837 on our virtual light-rail simulator!

APTA

[@APTAXpo](#) Take a break or catch up with your new contacts in one of our Networking Lounges at 2020, 2052 or 5056. [#APTAXPO](#)



THE FULLY sealed Xtreme can withstand all forms of weather.

Peerless-AV Makes Signage Xtreme in Transit

Peerless-AV | Booth 3272

PEEERLESS-AV IS SHOWING TRANSIT AGENCIES how they can expand digital signage offerings for any environment.

Jack McKeague, general manager and vice president of sales – display division for Peerless-AV, said the Xtreme Display is fully sealed so the unit is fully protected from the environment.

“The beauty of the unit also that for the industry we’re participating in right here is that with brake dust, any kind of outdoor wind, sand dirt, nothing can get into

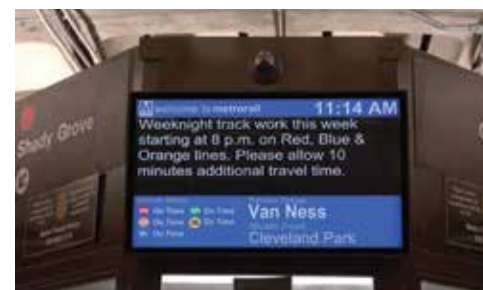
this screen, nothing can get out of this screen,” he said.

The Xtreme unit uses LG screen rated to withstand high temperatures and the heating and cooling units are within the 6 inch frame as opposed to external mounts. The Xtreme is rated to withstand temperatures from -40 degrees to 140 degrees.

McKeague said the units all contain tuners within them so they can still run on cabling. It creates powers savings as the most expensive part of the unit is the few milliseconds when it powers up.



THE XTREME Outdoor Display offers fully sealed protection.



THE PEEERLESS-AV Xtreme is designed to withstand all transit environments and elements.

Proterra Displays All-electric Bus

Proterra | Booth 5037



RYAN POPPLE, President and CEO of Proterra (left) and **Al Babinicz**, general manager/CEO of catbus in Clemson, S.C. (right) have partnered to implement the use of four battery electric 40-foot Proterra Catalyst buses on all Seneca, S.C. routes. The agency plans to add an additional all-electric bus in the near future.



THE PROTERRA Catalyst all-electric bus includes a fast-charge feature that can fully charge a bus in less than 15 minutes.

BAE Shows a Hybrid Solution

BAE Systems | Booth 1436

BAE SYSTEMS IS SHOWING APTA EXPO ATTENDEES IT'S ABLE TO TAKE FUEL savings and emissions cutting to a new level.

The company is showing its electric propulsion system for use in buses, which offers a hybrid drive system built in a series architecture.

Whether it be diesel fuel, whether it be fuel cell, whether it be pure electric, our system can take us through all those phases," said Bob Lamanna, director of global accounts for HybridDrive Solutions for BAE Systems.

BAE unveiled its new relationship with Cummins at the show to provide start-stop technology and anti-idle technology.

Development of electric accessories has furthered the usage of hybrid systems, Lamanna said, so electric drive propulsion can go longer without the loss of power steering, air conditioning and other technologies.

The longer electric range allows buses to operate sans diesel for longer distances, such as in tunnels and shopping districts where diesel noise is unwelcome. **MT**



BAE SYSTEMS is showing its electric propulsion systems in booth #1436.

Forward-Thinking HD Technology

APTA EXPO
PUBLIC TRANSPORTATION'S
PREMIER SHOWCASE

Booth #2829



Introducing RoadRunner HD™. Designed specifically for transit bus and rail applications, RoadRunner HD provides all the benefits of IP technology, but in a plug and play format that requires no networking expertise and is backwards compatible with existing RoadRunner systems.

With high definition video on all cameras (up to 16), RoadRunner HD delivers the clearest, highest quality video and months of onboard storage.

To learn more, go to: www.apollovideo.com



APOLLO
Apollo Video Technology

Mobile Video and Fleet Management Solutions
www.apollovideo.com

Toll Free: 888.288.8721; Tel: 425.483.7100; Email: sales@apollovideo.com



Jose Medrano

Transit Operations Manager
Montebello Bus Lines
Montebello, Calif.

“I’ve been with Montebello Bus Lines for 21 years and it’s my third Expo. I’m here looking for bus stop amenities, including shelters.”

Better Life Wants to Bring Solid Vinyl Flooring to Transit

Better Life Technology
LLC | Booth 1767

BBETTER LIFE TECHNOLOGY LLC representatives at the APTA Expo are telling attendees they can save them money with their new vinyl floor.

Brett Sneed, founder and president of the company, said the G-Floor Transit solid vinyl flooring is lightweight and durable, so it will save on gas mileage and extend the life of the floor. He said it also stands up to heavy traffic better than layered flooring commonly used in transit.

"With our product, since it's a solid vinyl product, nothing can break down," he said.

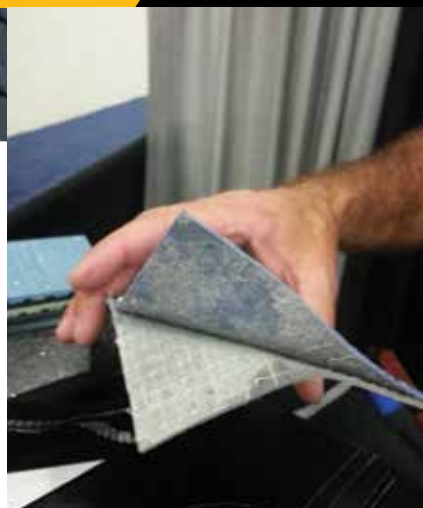
Sneed said he's breaking into the transit sector because the durability of the floor is appealing seeing as it doesn't have seams compared to traditional flooring.

Graphics can also be embedded in the floor to put in safety warning signs and advertisements if a transit agency wanted to earn more revenues. 



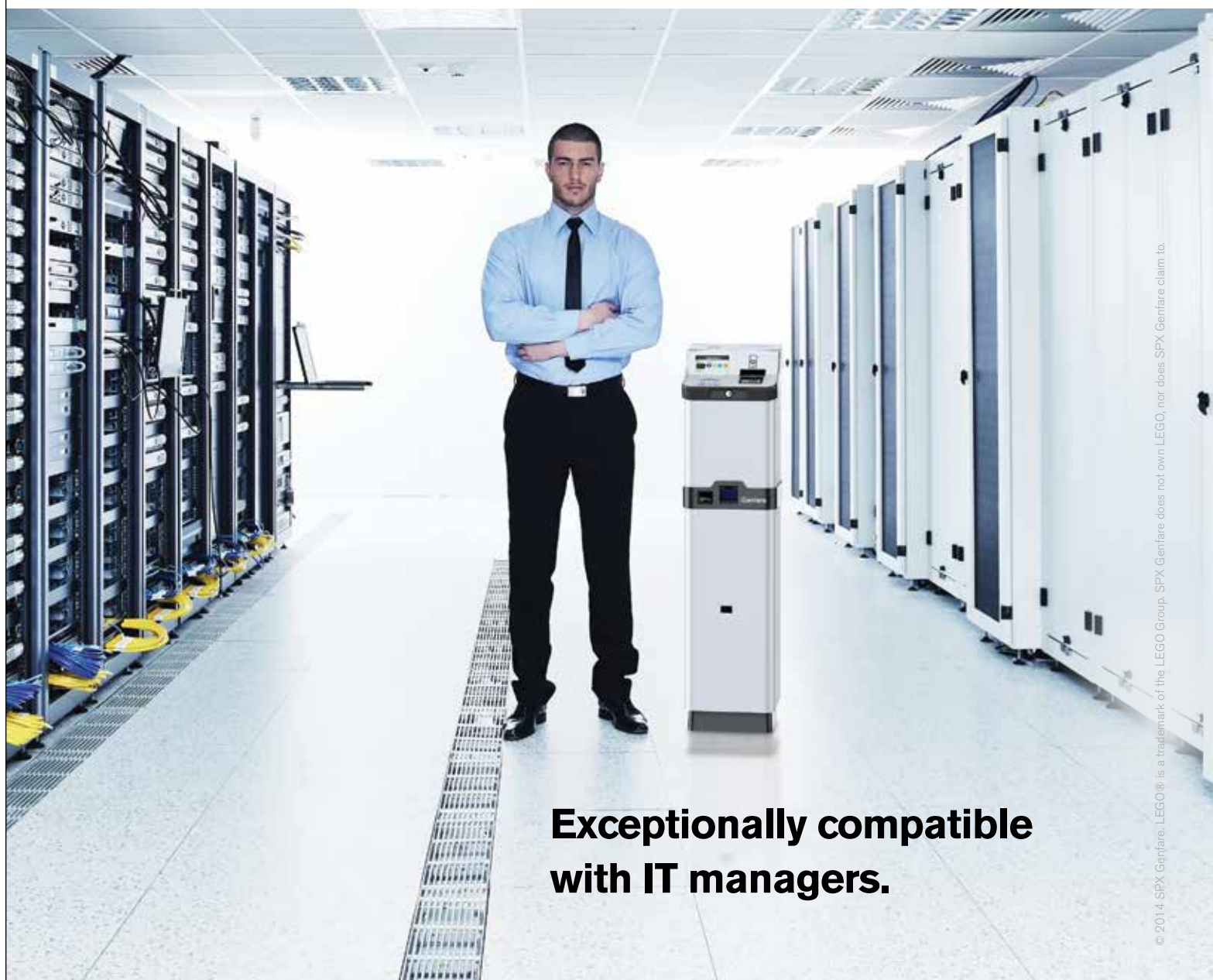
Sharad Agarwal
Vice President
National Call Centers
First Transit
Seattle, Wash.

“It's my third Expo. I look forward to seeing old colleagues, meeting new people and seeing all of the new technology”



BETTER LIFE uses solid vinyl flooring with customized designs for branding and durability.

SPX



Exceptionally compatible with IT managers.

© 2014 SPX Genfare. LEGO® is a trademark of the LEGO Group. SPX Genfare does not own LEGO, nor does SPX Genfare claim to.

It's a rare breed that gives IT managers exactly what they demand. Genfare's *Fast Fare™* is doing it with increased memory and data storage; Wi-Fi infrastructure; wireless probing; J1708/1587 interface to third-party CAD/AVL system for single point logon; geo-tagging of fare transaction; reporting farebox

alarms and so much more. It's a fully loaded solution with Fare System Intelligence that can handle any type of fare media you throw at it.

SPX Genfare – when you want the secure fare collection system designed around your transit agency's unique needs.

> Genfare®
The secure solution

Learn more about Genfare
Fast Fare™ at genfare.com

**VISIT BOOTH
2637**

VISIT US EACH DAY FOR A NEW LIMITED EDITION LEGO® SET, AND LEARN MORE ABOUT HOW WE CAN HELP YOU BUILD A BETTER FARE COLLECTION SYSTEM

Hadley Shows its Latest Innovations in Transit

Hadley | Booth 4267




HADLEY'S DIGITAL signage display at its booth provides real bus route information.

DESTINATION: PACKED HOUSE



HADLEY IS EXPANDING its options for transit vehicles in order improve operations and enhance rider experience.

The company is displaying its new digital signage option for transit at the APTA Expo, which is currently being used in a bus route in Grand Rapids, Michigan.

The company is also showing its new bus mirror switches, which can automatically fold in mirrors before a bus enters a wash. 



HADLEY'S NEW switches includes an automatic switch to ease the process of folding in mirrors before getting washed.

FLOOR CHATTER



Featured Tweets

CHRISTOF SPIELER
@christofspieler Any agency that uses Comic Sans on their displays should be disqualified from federal funding. #APTAAexpo

JASON WALDRON
@WaldronKC Checking out Houston's Metrorail and their ambitious plans for expansion. #APTAAEXPO

\$1→\$3

Small businesses want to be near public transportation because it connects them to customers. In fact, every dollar invested in public transit generates three dollars in increased business sales.

WHERE PUBLIC TRANSPORTATION GOES
COMMUNITY GROWS



publictransportation.org

Rotary Lift debuts MOD35 Modular Heavy-Duty Inground Lift

Rotary Lift | Booth 3447

ROTARY LIFT INTRODUCES THE NEXT generation of the industry's best-selling modular, environmentally friendly, heavy-duty inground lift: the MOD35 Series.

The modular design of the MOD35 inground lift enables it to be customized for any application and location. It is available with two or three multi-stage hydraulic cylinders to provide lifting capacity of 70,000 to 105,000 lbs.



A pendant-only custom remote control comes standard with every MOD35

THE NEW handheld pendant provides maintenance personnel easier access to setting up and lifting buses and other vehicles.

inground lift instead of a floor console. The pendant makes it easy for technicians to operate the lift from anywhere in the bay, for more efficient spotting and lifting. The pendant's joystick controls provide infinite variable speed control for positioning, raising and lowering the lift, as well as fine adjustment.

With the MOD35, "We've added 25 preset vehicle locations. As fleets are expanding out there, different types of buses, different passenger buses, you want to be able to swap those quickly," said David Fischmer,




A SIDE-PROFILE shows the containment of the MOD35, like the MOD30, still has the EnviroGuard to protect everything inside the lift, and also protect the environment.

marketing manager for the Vehicle Service Group.

To protect both the environment and the lift, the MOD35 is totally contained in a six-foot-deep



THE AIR-POWERED MW-500 Mobile Wheel Lift can remove and position any wheel or tire weighing up to 500 lbs.

steel enclosure that has been sealed inside and out with Rotary Lift's exclusive EnviroGuard coating. The enclosure is warranted against corrosion and electrolysis for 10 years. This containment forms a barrier between the lift components and the ground to trap oil and shop fluids while at the same time locking out groundwater. 

Wireless, Headache-Free Bus Washing.

Efficient, Fast, Unplugged.



Affordable bus washing solutions for any fleet size. Soap, wash, and rinse transit, coach and cut-away buses in 4-8 minutes, all at the touch of a button. Turn one operator into a wash crew with our self-contained bus wash equipment.



- Soap, Wash and Rinse from both controls
- Durable stainless steel base and frame
- Twin controls with EZ-Drive 4 Wheel Steering
- 24V Battery or Diesel Power
- Patented brush-only inclination system



Drop your card in our fishbowl for a chance to win an Apple iPad!!



1-877-637-1900
info@bitimec.com

Foxx Trots Expo



U.S. DEPARTMENT of Transportation Secretary Anthony Foxx visited the ATPA Expo show floor Oct. 14 to tour with several vendors showcasing products. Foxx met with Mobility Venture CEO Rick Smith and Marketing Assistant Kristina Rhoades inside an MV-1. Rhoades spoke with Foxx about the latest MV-1 models and how the unit accommodates the Americans with Disabilities Act. Foxx then met with representatives from Alstom, RouteMatch, Gillig and Vapor Bus to learn more about their products.



THE SERIES 57 door-opening pushbuttons combine optical, tactile and acoustic features in a single integrated product package.

EAO Delivers Integrated HMI Systems

EAO Corp. | Booth 2467

EAO IS WELL KNOWN FOR SPECIFIC HMI components, and in recent years merged into a complete HMI system bringing knowledge and services to new customers that may not have background in button assembly, placement or regulatory requirements.

“We can help them design a whole dashboard and cockpit. We have the component level expertise as well as the ergonomics and the knowledge of the specific industry standards, and we can bring the total integrated solution to the customer,” said Lance Scott, president, EAO Corp.

The company is working with train car builders to develop sub-assemblies for maintenance, repair

and integration. “At one point the builder would buy individual components and assemble it themselves, but creating integrated systems to provide the customer has been a big focus of EAO in this industry” said John Pannone, VP sales, HMI Systems, EAO Corp.

From a passenger’s perspective, EAO Corp. continues to provide the latest in human machine interface (HMI) technology, the Series 57 door-opening pushbuttons that combine optical, tactile and acoustic features in a single product package.

The modern design features an extra-large operating area, including two independently illuminated feedback rings. The raised symbols conform to TSI PRM and ADA and is resistant to wear and fading. Options include illuminated symbols and an integrated “finding tone” to help visually impaired passengers.

“When the passenger boards the train, we want to make indicators easy to understand so the experience of riding the vehicle is a pleasant one,” said Pannone. **MT**

FUEL FOR THE WORLD AHEAD.

At ANGI Energy Systems we are true believers and activists in making CNG go from an alternative fuel to a standard viable fuel source for all NGV markets. With over 30 years of experience and a leader in the industry, we provide innovative refueling system solutions for all of your needs.

WE ARE THE FUTURE OF FUEL TODAY.

ANGI

WE'RE READY TO HELP YOU LEARN WHICH ANGI CNG REFUELING SYSTEM BEST MEETS YOUR NEEDS

800 955 4626 angienenergy.com
305 W Delavan Dr Janesville, WI USA 53546

MADE WITH PRIDE IN THE USA.

TSO Mobile
www.TSOmobile.com (305) 477-4599

Public Transportation Passenger Centered Solutions.

Visit Our Booth #1461

Stop # 3
Address: 9134 Nw 107th Ave

Bus	Arriving in
Bus 1 (0.2 mi)	1 min
Bus 2 (0.9 mi)	6 mins

- Real-Time GPS Tracking
- TSO Public Tracker
- Arrival Forecast
- Voice & Text Information
- Passenger Counters
- Live Video Monitoring
- LED Signs Annunciators
- Public Info Displays

QR Code

www.TSOmobile.com/pt 1 (877) 477-2922
7791 NW 46th ST. Suite 306, Doral, FL 33166

Atkins Prepares Transit for the Future

Atkins | Booth 4213

ATKINS IS PUSHING DEEPER into its future proofing of cities concept with ideas on how to future proof transit.


Jon McDonald, vice president, business sector manager, transit and rail for Atkins, said the company is showcasing its process on preparing transit for the future to make it more resilient and create cities everyone wants to live in.



ATKINS IS showcasing how it plans to future-proof transit.

“This is a way to get to the future we’d all like to have versus the one we’re going to end up with if we don’t do anything,” he said.

McDonald said future growth rates can harm quality of life if steps are not taken to address them now. Los Angeles at its current rate could have a density coupled with poor quality of life like in Mexico City compared to Singapore, which has the same density, but with a 60 percent transit ridership.

McDonald said the plan takes a cyclical approach to future-proofing and addressing issues given the need and lack of funds. It challenges transit agencies to look outside of the traditional ways of planning or doing business in exchange for a world view of how things are done. 



Follow us

Facebook: facebook.com/masstransit

Twitter: twitter.com/masstransitmag

YouTube: MassTransitMagazine

Flickr: MassTransitMag

Instagram: masstransitmag



ATKINS IS challenging transit agencies and planners to look at p3 developments in a different manner than the traditional approach.



Innovation in motion

MobileView® now offers an all-IP solution for mobile transit applications.

Introducing the new MobileView 7000 Series Network Video Recorder (NVR), a 16-channel all-IP solution that captures high-resolution video and full audio surveillance on transit and rail vehicles. Easy to install, the new MobileView NVR includes advanced and flexible features to help maximize resources and increase vehicle uptime.



 **Visit us at APTA, Oct. 13-15, to learn more. Booth #3013**

Make the move to IP at interlogix.com/mobileview.



© 2014 United Technologies Corporation. All rights reserved.

News

Albert Scala has joined Urban Engineers as the firm's regional manager in California.

He will be managing task orders related to Urban's Project Management Oversight Consultant (PMOC) services contract for the FTA on the Los Angeles County Metropolitan Transportation Agency's Westside Subway Extension and Regional Connector projects.



ects in the area, including the Central Waterfront Development and Elliott Bay Seawall Replacement, the Alaskan Way Viaduct Replacement, the SR 520 Bridge Replacement, and the rehabilitation of the historic King Street Train Station.

Sima Vajdani Joins LAN

Sima Vajdani, P.E., joins planning, engineering and program management firm Lockwood, Andrews & Newnam Inc. (LAN) as vice president and business group director – California. Vajdani will lead LAN's practice in California and oversee and coordinate the business development efforts, production activities and operations in the state.

Vajdani has more than 30 years of engineering, project delivery, construction and management experience. Previously, she served as president, CEO and founder of McInfra, a company that provided consulting services to the water and transportation infrastructure community. Prior to McInfra, she worked as director of engineering for Samsung Engineering and Construction in the Americas



SIMA VAJDANI

where she focused on alternative delivery methods for major transportation projects.

Vajdani has served public and private sector clients throughout the western United States on a range of water and transportation infrastructure projects, including mass transit, water/wastewater, highways, ports, airports, bridges and special structures. Some of her notable projects include the California High Speed Rail, Segment 1, Port of Long Beach Pier T Container Terminal Improvement, Michelson Water Reclamation Plant (Phase II Upgrade) for Irvine Ranch Water District, Irvine, Calif., and Water Recycling Plant Expansion for West Basin Municipal Water District, El Segundo, California.

"Sima Vajdani is a strong leader and manager with exceptional technical skills, along with an enviable track record of success," said LAN President Dennis Petersen. "With her addition, we are looking forward to further improving our service to our California clients."

Vajdani also is actively involved in various organizations, including the Women in Transportation, Construction Management Association of America and Design/Build Institute of America. She received her bachelor's and master's degrees in civil engineering from California State University, Long Beach, and City University of New York, respectively. Vajdani is a registered professional engineer in California, New York and Washington.



GORAN SPARRMAN

Parsons Appoints Sparrman as Seattle Area Manager

Parsons is pleased to announce the appointment of Goran Sparrman as the area manager for Seattle, Washington. In this role, he will guide busi-

ness development, political advocacy, staffing and operations for the Seattle area.

Sparrman comes to Parsons from the Seattle Department of Transportation (SDOT) where he served as interim director as well as deputy director. His most recent area of responsibility involved managing 700 employees across eight divisions and an annual budget of \$400 million. The SDOT's work covers arterial and non-arterial streets, bridges, retaining walls, seawalls, bike trails, on-street bicycle facilities and street trees. Sparrman was directly involved with numerous major proj-

Making Connections To Communities



**Safely and efficiently driving
volunteers to make a difference!**

Want to learn more?
Visit Us at Booth # 2123 During the
APTA Expo
Email: info@availTec.com
or call 814-234-3394 ext. 1062

Congratulations Houston

on 16 Miles of New Light Rail!



- ◆ Light Rail
- ◆ Heavy Rail
- ◆ Third Rail
- ◆ Commuter Rail
- ◆ Streetcar
- ◆ Freight

**mass.
electric
construction
company**

ISO 9001:2008 Certified Quality Program
www.masselec.com
(972) 505-4781
info@masselec.com

MEC is an industry leader in the design, supply, installation and integration of Specialty Rail Systems:

- ◆ Overhead Contact Systems
- ◆ Traction Power Systems
- ◆ Signaling and Train Control
- ◆ Communications and Control Centers

Honolulu Passengers Get a New Ride with BAE Systems' HybriDrive

The Department of Transportation Services of the city and

county of Honolulu, Hawaii, has selected BAE Systems' HybriDrive Series-E propulsion system to power four New Flyer Xcelsior 60-foot, low-floor rapid transit buses. The system enables all bus accessories, such as air conditioning, power steering, and more, to run electrically.

"Honolulu's new buses will be equipped with Series-E electric drive, which not only reduces noise in and around bus stops, but represents a greater impact on environmental sustainability for the communities in which it operates," said Steve Trichka, vice president and general manager of HybriDrive Solutions at BAE Systems. "Because of these features, Honolulu riders will enjoy reduced noise at stops, while the Honolulu transit authority can take advantage of electric drive modes to eliminate emissions and reduce engine idling."

New Flyer of America Inc. will provide the four articulated buses, equipped with BAE Systems' hybrid propulsion system, to the Department of Transportation Services (DTS) of the city and county of Honolulu. Articulated buses are comprised of a single-deck design with two rigid sections linked by a pivoting joint, allowing for higher passenger capacity.

ABB's Work with SEPTA Wins ESNA Innovation Award

ABB announced that its work to transform the Southeastern Pennsylvania Transit Authority (SEPTA) system into both a smart consumer and producer of energy has won the prestigious award for "Innovation in Mobility" at the Energy Storage North America (ESNA) conference, the largest grid energy storage event.

ABB led the design, supply and integration of the Wayside Energy Storage Project within SEPTA's aging transit infrastructure. Originally installed in April 2012, the system captures braking energy for redistribution into the SEPTA power network while generating revenue with behind the meter load response to sustain the local grid and the wholesale energy market.

Results achieved to date show that the single substation system on the Market-Frankford Line in North Philadelphia generates over \$250,000 of annual energy savings and earned revenues. The initiative supports SEPTA's Sustainability Program goal of reducing energy intensity (energy use per passenger mile) by 10 percent by 2015.

"SEPTA is proud to receive this award," said SEPTA Chief Engineer Andrew Gillespie. "Initiatives such as the Energy Optimization Project are key elements in SEPTA's overall Sustainability Program, the success of which is critical to transit agency's ability to serve its riders and the Philadelphia region for both the short- and long-term."

"Recovering energy lost during braking is one of SEPTA's primary energy-saving initiatives," said Jacques Poulin, product manager of Energy Storage, ABB Railway. "Eventually, the industry-wide deployment of these smart grid technologies will deliver substantial economic and environmental benefit to public transit systems."

HYDRAULIC HYBRID

drive systems for
fleet vehicles

Increases
FUEL ECONOMY
up to **35%**



**Quick
Payback**
For heavy duty cycles



See
HYBRIDS
in a
**NEW
LIGHT**

**Reduces
harmful
emissions**
(Recent tests show
NO_x reduced 90%)



LIGHTNINGHYBRIDS
HYDRAULIC DRIVE

1-800-223-0740 | info@lightninghybrids.com

WWW.LIGHTNINGHYBRIDS.COM

Grants available

Quickly assess your fleet's drive cycles with our
customized smartphone app - call for more info

Wheels Announces New Executive Director

The Livermore Amador Valley Transit Authority (LAVTA), operator of the Wheels bus system in the Tri-Valley in California, announced that Michael Tree will be joining the agency as executive director in November.

"After an extensive search with many qualified candidates to choose from, the LAVTA Board of Directors has selected Mr. Tree to lead LAVTA in providing the best public transportation services to meet the challenges of our growing communities. He has a solid record of achievements and skills that will keep LAVTA moving forward," says Chair of the Board Scott Haggerty.

Tree brings to LAVTA more than 20 years of experience in senior positions in the public sector. He is currently general manager for the Missoula Urban Transportation District in Montana.

Gunfire Down 26 Percent in KC Areas Covered by ShotSpotter Following Transit-Police Partnership

Newly released data from the makers of the ShotSpotter gunshot detection system indicates that gunfire has decreased significantly in Kansas City's urban core over the last year.

The ShotSpotter system covers 3.55 square miles in Kansas City near the Troost MAX bus line. In comparing the first half of 2013 to the first half of 2014, gunfire incidents in those areas fell by 25.9 percent. That's 55 fewer incidents.

That keeps with the trend in 31 other cities across the United States and Caribbean that ShotSpotter serves: those cities averaged 25.9



percent fewer gunfire incidents, as well.

The ShotSpotter system went live in Kansas City in October 2012. It is a partnership between the Kansas City Missouri Police Department and Kansas City Area Transportation Authority (KCATA), with federal funding for the project secured by U.S. Rep. Emanuel Cleaver.

The funds became available when KCATA's Troost MAX Green Line was completed under budget. KCATA was the lead agency in the planning and procurement of the ShotSpotter service for the KCPD. This is an effort to support Kansas City's proactive policing strategies and deployments, in its ongoing commitment to improve the safety, security and quality of life for its residents by ridding the city of gun crime and gun violence.

"We have implemented a number of practices to reduce violent crime in Kansas City, including

ShotSpotter," Chief Darryl Forté said. "The reduction in gunfire in some of our hardest-hit neighborhoods is another indication that what we and other segments of the community are doing is making a real difference."

Within the coverage area, the system identifies the address of gunshots, the number of shots fired, the number of weapons used, and all within a few feet of the actual shots. Since its implementation, ShotSpotter has alerted Kansas City Police to 2,738 confirmed gunfire incidents, including 831 so far in 2014.

"With immediate information and situational awareness, police departments can radically speed up their response to gunfire incidents – which links directly to this decrease in gun incidents – while keeping officers safer and more effective," said Ralph A. Clark, president and CEO of SST Inc., the maker of ShotSpotter.

Wash Systems Engineered With Decades of Global Experience

- Rainbow Ultima Roll Over Systems
- XJ Series Drive Through Systems
- HYBRID Wash System Combines Touchless and Foam Brushes
- Recycling Module Delivers Continuous Supply of Recycled Water
- Touchless CENTRI*SPINNER Provides Unmatched Performance

INTERCLEAN
THE WASH THAT WORKS

Phone: +1 (734) 961 3300 or, in the U.S. and Canada,
1-800-INTERCLEAN (1-800-468-3725)
www.interclean.com

Altro Transflor Figura™
Slip resistant, sheet vinyl flooring in a patterned design for bus interiors

New Product

Come visit us at booth #3129

800.382.0333 USA | 800.565.4658 CAN
explore www.altrotransflor.com

Advertiser's Index

Alexander Dennis	39
Altro Transflor	38
Angi Energy	34
Apollo Video Technology	30
Avail Technologies	36
BAE Systems Controls	15
Bitimec Int.	33
Bombardier Transportation	23
BYD Motors, Inc.	14
Conductix-Wampfler	28
Continental Kibes	25
Cummins Engine Company	9
Daktronics	24
Global Traffic Technologies	7
InterClean Equipment	38
Interlogix	35
Keolis America	2
Lightning Hybrids	37
Luminator Technology Group	8
Mass Electric Construction	36
Mass Transit	1
Motor Coach Industries	40
Seimens Industry	3
SKF	12
SPX Genfare Division	31
Total Plastics	26
Transdev North America	11
TSO Mobile	34
ZF Group	27

Our new space program launches in Houston

Stylish, lighter, more fuel efficient and with 80 passenger seats, the all-new Enviro500 has turned *another* corner... and is now available at the reduced height of just 13' 6" (4.1m) meaning that it can now operate in virtually every part of the USA and Canada.



ENVIRO500

Designed exclusively for North America the Go-Anywhere Enviro500 remains as maneuverable and popular as ever and has stepped up a gear in terms of reliability, durability, low-cost maintenance and best-in-class whole-life costs. Little wonder that the Enviro500 remains the world's best-selling, three-axle, high capacity double deck bus.



See the new Go-Anywhere Enviro500 double deck on the Alexander Dennis booth (2419), APTA EXPO, Houston, Texas, October 13-15 2014.

Alexander Dennis Inc
31566 Railroad Canyon Road #342
Canyon Lake CA 92587-9446
Tel: (951)244-9429 Fax: (951)755-0318
Email: info@alexander-dennis.com
www.alexander-dennis.com



MCI

Visit
Booth #2837

Designed for the highway, built for commuter express



The MCI Commuter Coach

The MCI Commuter Coach has earned its position as the proven, North American leader in Commuter Express bus service for public transit systems due to its safety, reliability and comfort at highway speeds.

Our coach is strong and durable, with a rugged semi-monocoque structure that elevates passengers and drivers above traffic, plus Electronic Stability Control (ESC), tire pressure monitoring system and fire suppression system that make express routes, BRT and Bus-on-Shoulder service safer.

Our other strengths? Value and comfort. The MCI Commuter Coach offers a highly competitive per-seat price, plus low cost of operation and the best MDBF rate over all other types of bus models. Proven in the fleets of some of the nation's most demanding transit agencies, it's a hit with passengers too, thanks to comfortable forward-facing seats, reading lights, 110v outlets and high-capacity air conditioning.

Plus, the MCI Commuter Coach is Buy America-compliant and available in clean-diesel, hybrid and CNG options. So whether you're looking to build capacity, serve new markets, improve passenger safety and comfort or simply build on your reputation for reliability, service and value, the Commuter Coach is ready to transform your commutes.



To learn more about the MCI® Commuter Coach, go to mcicoach.com/commuter



Reliability Driven™