

# PRELIMINARY PROGRAM



## INTERNATIONAL CONFERENCE ON AUTOMATED PEOPLE MOVERS & AUTOMATED TRANSIT SYSTEMS

Tampa, Florida | April 29 - May 2, 2018

*A Conference of the Transportation & Development Institute (T&DI) of ASCE*

### Moving to the Future – Building on the Past



PROFESSIONAL  
EARN UP TO  
**13**  
DEVELOPMENT HOURS

Hilton Tampa Downtown

#APMCon18 | [www.apmconference.org](http://www.apmconference.org)

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## Schedule-At-A-Glance

(Subject to Change)

### Sunday, April 29

- 12:00 – 6:30 p.m. **Registration**
- 1:00 – 5:00 p.m. **Exhibitor Move-In**
- 4:00 – 5:30 p.m. **Preconference Operations & Maintenance Managers' Workshop**
- 6:00 – 7:30 p.m. **Exhibit Hall Open**
- 6:00 – 7:30 p.m. **Ice Breaker Reception in Exhibit Hall**

### Monday, April 30

- 7:30 a.m. – 5:00 p.m. **Registration**
- 8:00 a.m. – 4:00 p.m. **Exhibit Hall Open**
- 8:00 – 8:30 a.m. **Light Continental Breakfast in Exhibit Hall**
- 8:30 – 10:00 a.m. **Opening Plenary Session**
- 10:00 – 10:30 a.m. **Networking Break in Exhibit Hall**
- 10:30 a.m. – 12:00 p.m. **Plenary Session**
- 12:00 – 1:30 p.m. **Lunch in Exhibit Hall**
- 1:30 – 3:00 p.m. **Concurrent Technical Sessions 1**
- 3:00 – 3:30 p.m. **Networking Break in Exhibit Hall**
- 3:30 – 5:00 p.m. **Concurrent Technical Sessions 2**
- 6:30 – 9:30 p.m. **Evening Reception and Dinner aboard the StarShip Yacht, Sponsored by Lea+Elliott**

### Tuesday, May 1

- 7:30 a.m. – 2:00 p.m. **Registration**
- 8:00 a.m. – 1:00 p.m. **Exhibit Hall Open**
- 8:00 – 8:30 a.m. **Light Continental Breakfast in Exhibit Hall**
- 8:30 – 10:00 a.m. **Concurrent Technical Sessions 3**
- 10:00 – 10:30 a.m. **Networking Break in Exhibit Hall**
- 10:30 a.m. – 12:00 p.m. **Concurrent Technical Sessions 4**
- 12:00 – 1:00 p.m. **Lunch in Exhibit Hall**
- 2:00 – 5:00 p.m. **Technical Tour**
- 1:00 – 4:00 p.m. **Exhibitor Move-Out**

### Wednesday, May 2

- 7:30 a.m. – 12:00 p.m. **Registration**
- 8:00 – 8:30 a.m. **Light Continental Breakfast**
- 8:30 – 10:00 a.m. **Concurrent Technical Sessions 5**
- 10:00 – 10:30 a.m. **Networking Break**
- 10:30 a.m. – 12:00 p.m. **Concurrent Technical Sessions 6**
- 12:00 – 12:30 p.m. **Closing Plenary Session**
- 2:00 – 5:00 p.m. **APM Standards Committee Meetings**

### Thursday, May 3

- 8:00 a.m. – 5:00 p.m. **APM Standards Committee Meeting**



# An Invitation to Attend

On behalf of the Transportation and Development Institute (T&DI) of the American Society of Civil Engineers (ASCE) and the APM-ATS Steering Committee, we would like to invite you to attend the 16th International Conference on Automated People Movers & Automated Transit Systems being held in Tampa, Florida.

## The theme for the conference is “Moving to the Future – Building on the Past.”

Tampa International Airport is a clear example of our theme, “Moving to the Future – Building on the Past.” During the 1960s an innovative terminal design was proposed for the Tampa International Airport and a key component was the need for a reliable transit system that would shuttle passengers between satellite terminals and a central terminal building. When the system went into service in 1971, it was the first airport Automated People Mover and it marked the start of numerous applications and development of these driverless transit systems around the world. A second driverless monorail system was installed in the airport garage and the vehicles on the original shuttles were replaced in the 1990s. A new, third Automated People Mover, the SkyConnect, is under construction linking the terminal area with a consolidated rental car complex and will open prior to the conference. This will give Tampa International Airport the distinction of having the first airport APM and the newest airport APM. During the Conference, we invite you to experience the past while moving to the future by taking a technical tour of the original airside APM and the new landside APM, SkyConnect, at Tampa International Airport.

Share your opinion and hear what planners, inventors, engineers, APM and transit system operators, designers, suppliers, builders, government officials, owners, and operators of automated transit of all forms have to say as all these technologies are discussed in Tampa. Network with your fellow attendees and talk to exhibitors about the equipment and services they offer. Take advantage of the ASCE-T&DI APM-ATS conference’s international collegial community to share experiences, reveal innovations, look to the future, and discuss lessons learned and the latest developments in automated transit of all forms.

Attending the technical program will make you eligible for professional development hours (PDHs) that can be used to show your commitment to maintaining your competency to licensing boards.

We look forward to welcoming you from around the world April 29 – May 2, 2018 for APM-ATS 2018 in Tampa, Florida!

## Conference Steering Committee



**Conference Chair**  
**Craig Elliott, A.M.ASCE**  
Lea+Elliott, Inc.



**Bill Sproule, Ph.D., P.E., F.ASCE**  
Michigan Tech University



**Brian McKeehan, P.E., F.ASCE**  
Gresham, Smith and Partners



**Kari Goetz**  
Tampa Airport



**Lawrence Smith, P.E., F.ASCE**  
Member, ASCE Standards Committee,  
T&DI Standards Council



**Murthy V. A. Bondada, Ph.D., P.E., F.ASCE, F.ITE**  
Epic Engineering & Consulting  
Group, LLC

# Program Highlights

SUNDAY | APRIL 29

**IMPORTANT:** Please check the box on the registration form if you plan to attend so you will receive the event ticket when you arrive and pick up your name badge at the registration desk. Your ticket is your admittance to the event.

## Pre-Conference Operations & Maintenance Manager's Workshop

4:00 – 5:30 p.m.

The Pre-Conference Operations & Maintenance Manager's Workshop provides a peer-to-peer forum to discuss some of the complex operational challenges related to managing APM systems. This forum provides an opportunity to share lessons learned and identify best practices. Suggested topics include initial system startup, system expansion and operational impact mitigation, contingency plans for service interruptions, and contract vs in-house O&M; benchmarking and networking, open forum Q&A.



**Moderator: Al Illustrato**, Executive Vice President Facilities and Administration, Tampa International Airport

In his position with Tampa International Airport, Illustrato is responsible for planning and development, maintenance, human resources, risk management and administration.

He oversees the largest division at the airport, which includes a staff that is managing the billion dollar master plan project. During his 28 years at the airport he has been involved with numerous projects, which include airside terminals, parking garages, roadways, runways, and baggage handling systems. He has also provided key leadership support during several major organizational transitions. Prior to joining the airport, Illustrato worked for the American Bureau of Shipping and the Long Island Rail Road. He is a graduate of SUNY Maritime College and is originally from Bronx, NY.

## Ice Breaker Welcome Reception in Exhibit Hall

6:00 – 7:30 p.m.

This is a great forum to network, mingle with friends and colleagues, and visit our exciting exhibits. There is no better way to kick off the conference than by attending this reception. This event offers spectacular food & drinks and your first two drink tickets are on us!

**Included in Full Registration Packages. Additional Ticket EB \$25/ADV \$25/ ONS \$45**

MONDAY | APRIL 30

## Registration

7:30 a.m. – 5:00 p.m.

## Light Continental Breakfast in Exhibit Hall

8:00– 8:30 a.m.

## Opening Plenary Session

8:30 – 10:00 a.m.

### Welcoming Remarks



**Craig Elliott, A.M.ASCE**,  
Chair, Conference Steering  
Committee, Lea+Elliott, Inc.



**David Hein, P.Eng., M.ASCE**,  
President, Transportation &  
Development Institute of ASCE



**Dick Greco**, 50th  
and 56th Mayor  
of Tampa



**Mayor Bob  
Buckhorn**, Mayor  
of Tampa



**Joe Lopano**, Chief  
Executive Officer,  
Tampa International  
Airport

### Opening Remarks

**The Honorable Dick Greco**, Former Mayor of Tampa

**The Honorable Bob Buckhorn**, Mayor of Tampa (Invited)

**Joseph Lopano**, CEO, Tampa Airport

## Networking Coffee Break in Exhibit Hall

10:00 – 10:30 a.m.

## Plenary Session

10:30 a.m. – 12:00 p.m.

### Speakers



**Robert L. Bertini, Ph.D., P.E.**,  
Executive Director, Center  
for Urban Transportation  
Research, University of South  
Florida



**Jeffrey Seward**,  
Interim CEO, HART

## Lunch in Exhibit Hall

12:00 – 1:30 p.m.

## Concurrent Technical Sessions 1

1:30 – 3:00 p.m.

## Networking Break in Exhibit Hall

3:00 – 3:30 p.m.

## Concurrent Technical Sessions 2

3:30 – 5:00 p.m.

## Evening Reception and Dinner

6:30 – 9:30 p.m.

Reception and Dinner hosted aboard the StarShip Yacht.

*Included in Full Registration Packages.*

Sponsored by **LEA**  **ELLIOTT**

TUESDAY | MAY 1

## Registration

7:30 a.m. – 2:00 p.m.

## Light Continental Breakfast in Exhibit Hall

8:00– 8:30 a.m.

## Concurrent Technical Sessions 3

8:30 – 10:00 a.m.

## Networking Coffee Break in Exhibit Hall

10:00 – 10:30 a.m.

## Concurrent Technical Sessions 4

10:30 a.m. – 12:00 p.m.

## Lunch in Exhibit Hall

12:00 – 1:00 p.m.

## Technical Tour: Tampa International Airport APMs

2:00 p.m. – 5:00 p.m.

**Fee:** \$25 Member/\$35 Non-Member

**Registration Deadline:** Registration ends April 11, 2018

WEDNESDAY | MAY 2

## Registration

7:30 a.m. – 12:00 p.m.

## Light Continental Breakfast

8:00 – 8:30 a.m.

## Concurrent Technical Sessions 5

8:30 – 10:00 a.m.

## Networking Break

10:00 – 10:30 a.m.

## Concurrent Technical Sessions 6

10:30 a.m. – 12:00 p.m.

## Closing Plenary Session

12:00 – 12:30 p.m.

## Closing Remarks

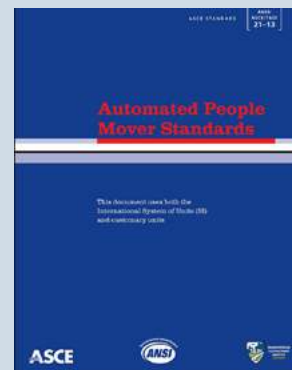
## APM Standards Committee Meeting

2:00 – 5:00 p.m.

THURSDAY | MAY 3

## APM Standards Committee Meeting

8:00 a.m. – 5:00 p.m.



## The APM Standards Committee

The APM Standards Committee is an operating unit within the Transportation and Development Institute (T&DI) of the American Society of Civil Engineers (ASCE). ASCE is an American National Standards Institute (ANSI) accredited Standards Development Organization (SDO).

The purpose of the Automated People Movers Standards Committee is to develop and update standards for Automated People Movers. These standards establish the minimum set of requirements necessary to achieve an acceptable level of safety and performance for an APM system.

The APM Standards Committee developed and maintains the standards following a consensus process and rules administered by the ASCE Codes and Standards Committee (CSC) in conformance with ANSI rules for standards. The consensus process requires balloting by a balanced committee of individuals representing APM consumers, producers, general interest, and regulators.

The committee is led by APM Standard Committee Chair Tedd Snyder. For more information about APM Standards visit our website at [www.apmstandards.org](http://www.apmstandards.org).

The APM Standards Committee will meet immediately following the conference on Wednesday, May 2 from 2:00 to 5:00 p.m. and all-day Thursday, May 3 from 8:00 a.m. to 5:00 p.m. The agenda will focus on reaffirmation of the language within the standard and discussion of current issues that face the APM industry. All conference attendees are welcome to attend. Please send your RSVP to Debi Denney at [ddenney@asce.org](mailto:ddenney@asce.org) should you decide to attend this meeting.



# Special Events

## Reception and Dinner Cruise on the StarShip Yacht

**Monday, April 30, 6:30 – 9:30 p.m.**

Set sail with fellow APM-ATS 2018 attendees! You and a guest are invited for a cocktail hour, dinner, and live music aboard Florida's largest dining yacht, the StarShip. Enjoy views of Tampa from the deck or explore the different interior levels. Boarding begins at 6:30 p.m. and we will return to the dock at 9:30 p.m. Hosted by Lea+Elliott.

*Included in Full Registration Packages.*



## The Tampa International Airport

**Tuesday, May 1, 2:00 – 5:00 p.m.**

**Fee:** \$25 Member/\$35 Non-Member

**Registration Deadline:** Registration ends April 11

Tampa International Airport was automated before it was cool.

Tampa International Airport led the development of the world's first Automated People Mover with the Bombardier system (then Westinghouse) that is still operated today. Since then, APM systems have become a ubiquitous presence at airports worldwide. Tampa International Airport remains committed to this legacy with SkyConnect – a new 1.4-mile system. SkyConnect will rapidly take passengers between the Main Terminal, Economy Garage, and new state-of-the-art rental car center.

The train features a unique design inspired by the beauty of the Tampa Bay region. In collaboration with the Audubon Society, each of the 12 cars is adorned with an image of one of the many birds that inhabits the Tampa Bay region. Mitsubishi Heavy Industries America, Inc., which is building and operating the automated train system, calls the exterior design one of the most unique in the world. The tour will include a look at the legacy Bombardier system and the new SkyConnect system operated by Mitsubishi.

**Photo credits:** Right: Tpa ops27 at en.wikipedia  
Below: Airport panorama. Photo credit: Don Miller from Venice, U.S.



## Sunday, April 29

12:00 – 6:30 p.m.	<b>Registration</b>
4:00 – 5:30 p.m.	<b>Pre-Conference Event: APM Operations &amp; Maintenance Managers' Workshop</b>
6:00 – 7:30 p.m.	<b>Ice Breaker Reception in Exhibit Hall</b>

## Monday, April 30

7:30 a.m. – 5:00 p.m.	<b>Registration</b>		
8:00 – 8:30 a.m.	<b>Light Continental Breakfast in Exhibit Hall</b>		
8:30 – 10:00 a.m.	<b>Opening Plenary Session</b> Welcome Address: Craig Elliott, Chair, Conference Steering Committee & David Hein, President, Transportation & Development Institute of ASCE Opening Remarks: Dick Greco, Former Mayor of Tampa Opening Remarks: Bob Buckhorn, Mayor of Tampa <i>(Invited)</i> Opening Remarks: Joseph Lopano, CEO, Tampa Airport		
10:00 – 10:30 a.m.	<b>Networking Break in Exhibit Hall</b>		
10:30 a.m. – 12:00 p.m.	<b>Plenary Session</b> Robert Bertini, Ph.D., P.E., Executive Director, Center for Urban Transportation Research (CUTR), University of South Florida Jeffery Seward, Interim CEO, HART		
12:00 – 1:30 p.m.	<b>Lunch in Exhibit Hall</b>		
1:30 – 3:00 p.m.	<b>Concurrent Technical Sessions 1</b>		
<b>Session 1A : Airports I</b>	<b>Session 1B: History</b>	<b>Session 1C: Urban Systems I</b>	<b>Session 1D: Planning and Policy I</b>
<b>Tampa International Airport's New APM Systems</b> , Brian Rumble, <i>Tampa International Airport</i> <b>Delivering the SkyConnect</b> , Guadalupe G. Murillo, Jr., <i>Lea+Elliott, Inc.</i> ; Brian Rumble, <i>Tampa International Airport</i> <b>The SkyConnect APM: Continuing a Legacy of World-Class Customer Service at Tampa International Airport</b> , Darin Friedmann, <i>Mitsubishi Heavy Industries America, Inc.</i>	<b>Florida: The World's Showpiece for Automated People Movers (An Update)</b> , Murthy V.A. Bondada, <i>EPIC Engineering and Consulting Group</i> <b>*History of the Tampa Harbour Island People Mover</b> , William J. Sproule, <i>Michigan Technological University</i> ; Lawrence Smith, <i>T&amp;D Standards Committee</i> <b>Soule SK and Poma 2000 – the History of Cable-Propelled PRT and Lessons for an Age of Autonomous Vehicles</b> , Arnd N. Baetzner, <i>Mobility CarSharing Switzerland</i>	<b>*A Light Rail, Group Rapid Transit, Personal Rapid Transit Comparison</b> , Peter Muller, <i>PRT Consulting, Inc.</i> ; Ingmar Andreasson, <i>Logistik Centrum AB</i> <b>The Shanghai Line 8 Phase 3 Automated People Mover</b> , Andrew S. Robbins, <i>Bombardier Transportation</i> <b>Siemens Mobility – APM Expertise and Lessons Learned at Ongoing Rennes B Project</b> , Pauline Bentegeat and Bertrand Picard, <i>Siemens Mobility</i> <b>APM: Technical Innovation for Safety and Easy Life in South Korea</b> , Joseph Kim, <i>Woojin IS America, Inc.</i>	<b>Expanding Capacity Beyond Original Planning Horizon Limits</b> , Melinda S. Ring, <i>Lea+Elliott, Inc.</i> <b>Viability of APMs for High Capacity Integrated Large Networks – Industry Wide Standardization to Reduce Owner's Risk</b> , Sambit Bhattacharjee and Sanjeev Shah, <i>Lea+Elliott, Inc.</i> <b>*From PRT to Autonomous Taxis – A Modeling Perspective</b> , Ingmar Andreasson, <i>Logistik Centrum AB</i> <b>Evaluation of Automated Transit Systems – Assessment Criteria, Methodologies, and Case Studies</b> , Samuel Labi, Seyed Ali Ghahari, and Augustine Marfo, <i>Purdue University</i> ; Paul Ha, <i>New York University</i>
3:00 – 3:30 p.m.	<b>Networking Break in Exhibit Hall</b>		
3:30 – 5:00 p.m.	<b>Concurrent Technical Sessions 2</b>		
<b>Session 2A: Airports II</b>	<b>Session 2B: Major Activity Centers</b>	<b>Session 2C: Urban Systems II</b>	<b>Session 2D: Planning and Policy II</b>
<b>Subgrade to Guideway – Infrastructure for the Tampa International Airport SkyConnect APM PANEL</b> <b>Moderator:</b> Brian McKeenan, <i>Gresham, Smith and Partners</i> <b>SkyConnect Design Criteria</b> , Sambit Bhattacharjee, <i>Lea+Elliott, Inc.</i> <b>Station Design – Moving Passengers to and from Platforms</b> , Grant Clifford, <i>Gresham, Smith and Partners</i> <b>Energizing the SkyConnect</b> , Greg Kieninger, <i>TECO Energy</i> <b>Up in the Air – Structural Challenges and Solutions</b> , Richard Temple, <i>Walter P. Moore</i>	<b>Innovative Solutions for an At-Grade Tram System in Maui</b> , Lee Larson, <i>Schwager Davis, Inc.</i> ; Dean C. Hurst, <i>Hurst Engineering and Inspection</i> <b>Evaluation of an Automated People Mover in Downtown Indianapolis</b> , Abdullah Nafakh, Sikai Chen, Tariq Usman Saeed, and Samuel Labi, <i>Purdue University</i> <b>Bluewaters APM: the Last Mile</b> , Robert Lohmann, <i>2getthere</i> <b>ACCEL - An Accelerating Moving Walkway to Foster Urban Mobility</b> , Alexander Pfurr, <i>ThyssenKrupp Group</i>	<b>*An Innovative Transportation Solution for the City of Canoas, Brazil</b> , Diego Abs, <i>Aeromovel Brazil SA</i> ; Steven Castaneda and David Mori, <i>Jakes Associates, Inc.</i> <b>Environmentally Friendly Linkage System for Kowloon East – Detailed Feasibility Study</b> , Wilson Wu, <i>Ove Arup &amp; Partners HK Limited</i> <b>Hiroshima Astram Gets New Life</b> , Masahisa Masukawa, <i>Mitsubishi Heavy Industries America, Inc.</i> <b>Singapore Sengkang-Punggol APM Systems Expand</b> , Masahisa Masukawa, <i>Mitsubishi Heavy Industries America, Inc.</i>	<b>Jacksonville U2C Program – Plan and Challenges</b> , Cheryl Freeman and Tom McVey, <i>RS&amp;H</i> ; Kamel-Eddine Mokhtech and Daniel J. McFadden, <i>Lea+Elliott, Inc.</i> <b>Driverless Automated Solution Versus Autonomous Vehicles for Transit Operation</b> , Marko Kroenke, <i>Bombardier Transportation</i> <b>A Community Autonomous Vehicle Transportation Service at Babcock Ranch</b> , John Lambert, <i>University of Central Florida</i> <b>*The Conceptual Art of Moving People Through Decentralized Mobility Devices</b> , Clement Solomon, <i>West Virginia University</i>
6:00 – 8:30 p.m.	<b>Reception Sponsored by Lea+Elliott</b>		

## Tuesday, May 1

7:30 a.m. – 2:00 p.m. <b>Registration</b>			
8:00 – 8:30 a.m. <b>Light Continental Breakfast in Exhibit Hall</b>			
8:30 – 10:00 a.m. <b>Concurrent Technical Sessions 3</b>			
<b>Session 3A: Airports III</b>	<b>Session 3B: Automated Mobility Districts</b>	<b>Session 3C: Implementation I</b>	<b>Session 3D: Train Control</b>
<p><b>Expansion and Modernization of the Airport Transit System at Chicago O’Hare International Airport</b>, Frank Grimaldi, Jr., <i>Chicago Department of Aviation</i>; Michael R. Carr, <i>AECOM</i>; Christopher M. Gambla, <i>Lea+Elliott, Inc.</i></p> <p><b>PHX Sky Train – A Critical Upgrade to Ground Transportation at PHX</b>, Darryl Jaquess, <i>Lea+Elliott, Inc.</i>; Anne Kurtenback, <i>City of Phoenix Aviation</i></p> <p><b>PHX Sky Train Stage 2 – Planning an APM Extension to Support Adjacent Development, Improve Airport Operations and Increase Landside Capacity</b>, Mark Pilwallis, <i>Gannett Fleming</i></p> <p><b>Expansion for the Miami MIA Mover</b>, Makoto Kashiwa, <i>Mitsubishi Heavy Industries America, Inc.</i></p>	<p><b>Comprehensive Modeling Architecture to Inter-Intra Mobility and Energy Impacts of University Automated Mobility Districts</b>, Stanley Young, Yuche Chen, Venu Garikapati, Lei Zhu, Joshua Sperling, and Andrew Meintz, <i>National Renewable Energy Laboratory</i></p> <p><b>Houston’s University District Automated Vehicle Transit Circulator System</b>, James S. Lott, <i>Texas Southern University</i></p> <p><b>The Ultimate Urban Circulator Program (U2C)</b>, Brad Thoburn, <i>Jacksonville Transportation Authority</i></p>	<p><b>*Computer Security for Automated Transportation Systems</b>, Jefferson H. Davis, <i>Lea+Elliott, Inc.</i></p> <p><b>*Straddle Monorail – Implementation Challenges</b>, Matthew Tsang and Eddie He, <i>Ove Arup &amp; Partners</i></p> <p><b>*Contract Issues in Consultant Contracts</b>, Stephen Grimmer, <i>Law Office of Stephen A. Grimmer</i></p> <p><b>Connected Automated Vehicle Implementation</b>, Robert James, <i>HNTB</i></p>	<p><b>Hong Kong International Airport Automated People Mover Upgrade to CBTC</b>, David Dimmer and Lily Zhang, <i>Thales Transportation Solutions</i></p> <p><b>*CBTC.valid – A New Method to Validate Complex Train Control Systems</b>, Joerg Schuette, <i>University of Technology, Dresden</i></p> <p><b>*A COTS High Availability and High Performance Train Control System for a Fully Automated Maglev People Mover</b>, Bernhard Immken, Bert Zamzow, Christian Bardos, and Stefan Boegl, <i>Max Boegl Group</i></p>
10:00 – 10:30 a.m. <b>Networking Break in Exhibit Hall</b>			
10:30 – 12:00 p.m. <b>Concurrent Technical Sessions 4</b>			
<b>Session 4A: Airports IV</b>	<b>Session 4B: Panel: Automated Mobility Districts</b>	<b>Session 4C: Implementation II</b>	<b>Session 4D: Engineering I</b>
<p><b>Houston Airport Inter-Terminal Train Replacement</b>, Peter Muller, <i>PRT Consulting, Inc.</i></p> <p><b>Needs and Resource Constraints of a Small to Mid-Size Airport</b>, David Edwards, Jr., <i>Greenville-Spartanburg International Airport</i></p> <p><b>Autonomous Vehicles on the Airside Apron</b>, Robert Lohmann, <i>2getthere</i></p> <p><b>Automated Buses for Airports</b>, Robert James, <i>HNTB</i></p>	<p><b>Moderator:</b> Stan Young, <i>National Renewable Energy Laboratory</i></p> <p>A panel of representatives of city/ governmental entities will discuss the application of fully automated roadway vehicle transit in urban districts and major activity centers.</p> <p>Brad Thoburn, <i>Jacksonville Transportation Authority</i>; Grayson Brulte, <i>Beverly Hills, CA, Mayor’s Autonomous Vehicle Task Force</i>; Fred Payne, <i>Greenville, SC, County Council Member</i>; and Sam Lott, <i>Texas Southern University</i></p>	<p><b>*In-Service Replacement of APM Systems</b>, Bruno C. Barros, Brian Adams, and John Heath, <i>Heath &amp; Linebeck Engineers, Inc.</i></p> <p><b>*Procurement Models for Automated People Mover Systems</b>, Phillip Ravotti and Brian Adams, <i>Heath &amp; Linebeck Engineers, Inc.</i></p> <p><b>Honolulu Rail Transit Project – Implementing a Systems DBOM Contract Under a Federal Transit Administration (FTA) New Starts Program</b>, Huy P. Huynh, <i>Lea+Elliott, Inc.</i>; Jeffrey Siehien, <i>Honolulu Authority for Rapid Transportation</i></p> <p><b>Macau APM</b>, Yoshitaka Kaneko, <i>Mitsubishi Heavy Industries America, Inc.</i></p>	<p><b>*Control Strategy for Pneumatic Braking of the Aeromovel System</b>, Eduardo Perondi, <i>Universidade Federal do Rio Grande do Sol</i>; Diego Abs, <i>Aeromovel Brazil SA</i>; Steven Castaneda, <i>Jake Associates, Inc.</i></p> <p><b>Driving the “Vehicule Automatique Leger”: The Development of APM Axle and Bogie Technology</b>, Matthew Kirk and Claude Dussartre, <i>Texelis SA</i></p> <p><b>*Automated Condition-based Monitoring of Automated People Movers</b>, Stanley Fong, Ali Ashasi-Sorkhabi, Guru Prakash, and Sriram Narasimhan, <i>University of Waterloo</i>; Michael Riseborough, <i>Greater Toronto Airports Authority</i></p> <p><b>Evolution of Bombardier’s INNOVIA APM 100</b>, Kevin Lewis, <i>Bombardier Transportation</i></p>
12:00 – 1:00 p.m. <b>Lunch in Exhibit Hall</b>			
2:00 – 5:00 p.m. <b>Technical Tour: Tampa International Airport</b>			



## Wednesday, May 2

7:30 a.m. – 12:00 p.m. <b>Registration</b>			
8:00 – 8:30 a.m. <b>Light Continental Breakfast</b>			
8:30 – 10:00 a.m. <b>Concurrent Technical Sessions 5</b>			
<b>Session 5A: Airports V</b>	<b>Session 5B: New and Emerging Technologies I</b>	<b>Session 5C: Implementation III Panel: P3: Balancing the Tensions – Legal, Technical and Financial</b>	<b>Session 5D: Engineering II</b>
<p><b>Upgrading Critical APM Subsystems at the World's Busiest Airport</b>, David Ewing, <i>Lea+Elliott, Inc.</i>; Kenneth Williams, <i>Hartsfield Jackson Atlanta International Airport</i></p> <p><b>Replacement of Existing Must-Ride Shuttles in a Must-Ride Environment at Orlando International Airport</b>, Gregory W. Love, <i>Lea+Elliott, Inc.</i></p> <p><b>Orlando International Airport APM Replacements and New Link</b>, Darin Friedmann, <i>Mitsubishi Heavy Industries America, Inc.</i></p> <p><b>Replacement of AirTrain at Newark Liberty International Airport</b>, David M. Casselman, <i>Lea+Elliott, Inc.</i></p>	<p><b>*The Internet of Things, Big Data, and the Connected Transportation System</b>, Rich Lommock, <i>Bombardier Transportation</i></p> <p><b>Rivium 3.0: The First Autonomous Vehicle Project</b>, Robert Lohmann, <i>2getthere</i></p> <p><b>*A Novel Automated Urban Maglev Transport System – Actual Design and Operational Data Compared with Legacy Systems</b>, Bert Zamzow, Peter Mnich, Eckert Fritz, and Stefan Boegl, <i>Max Boegl Group</i></p> <p><b>Evaluation of Hyperloop Transportation Systems</b>, Samuel Labi, Tariq Usman Saeed, Sikai Chen, and Abdullah Nafakh, <i>Purdue University</i></p>	<p><b>Moderator:</b> Sanjeev Shah, <i>Lea+Elliott, Inc.</i></p> <p>Panel members will explore the legal, technical, and financial challenges of a project regardless of the selected delivery approach. The traditional, Design-Built-Operate-Maintain, P3, and other approaches will be discussed.</p>	<p><b>*Increasing Operational Service Levels Using Preventative Maintenance Optimization Strategies – Toronto Pearson International Airport LINK APM System</b>, Sean Best, <i>Doppelmayr Cable Car Ltd.</i>; Michael Riseborough, <i>Greater Toronto Airports Authority</i></p> <p><b>*Fitness-For-Service Assessment of Automated People Movers Cars</b>, Paul J. Murtagh and Robert S. Vecchio, <i>LPI, Inc.</i>; Daniel J. McFadden, <i>Lea+Elliott, Inc.</i></p> <p><b>*Models for Onboard Train Diagnostics Data to Improve Condition-Based Maintenance</b>, Sven Scholz, <i>University of Technology Dresden</i></p> <p><b>*Urban Maglev Operation and Maintenance – Increasing Efficiency by Applying Lean Production Principles</b>, Melanie Heinz, Katrin Sommer, Klaus Roeber, Bert Zamzow, and Stefan Boegl, <i>Max Boegl Group</i></p>
10:00 – 10:30 a.m. <b>Networking Break</b>			
10:30 – 12:00 p.m. <b>Concurrent Technical Sessions 6</b>			
<b>Session 6A: Airports VI</b>	<b>Session 6B: New and Emerging Technologies II</b>	<b>Session 6C: Panel: APM Standards Committee Update – What's New in APM Standards?</b>	<b>Session 6D: Engineering III</b>
<p><b>Roll-up of All Asian Airport APM Projects</b>, Iris Yuan, <i>Lea+Elliott, Inc.</i></p> <p><b>Overview of Singapore Changi Airport Terminal 5 APM Planning</b>, Matthew Sturgell, <i>Lea+Elliott, Inc.</i>; Kenneth Wilson, <i>Singapore Changi International Airport</i></p> <p><b>Changi International Airport, the Jewel, and the APM</b>, Makoto Kashiwa, <i>Mitsubishi Heavy Industries America, Inc.</i></p> <p><b>HKIA Three Runway System APM</b>, Alice Chan and Carol Lau, <i>Over Arup &amp; Partners HK Limited</i></p>	<p><b>*A Next Generation Urban Maglev System – Benefits of Product Lifecycle Management Systems as a Basis for Design and Production Processes</b>, Tim Praeger, Klaus Roeber, Bert Zamzow, and Stefan Boegl, <i>Max Boegl Group</i></p> <p><b>System for People and Cargo</b>, Karl W. Guenther and Nancy A. Guenther, <i>Sky Train Corporation</i></p> <p><b>Transit X: Solar-Powered, Featherweight, Personal Mass Transit Network</b>, Mike Stanley, <i>Transit X</i></p> <p><b>Super AGT: Coming Soon to a City Near You</b>, Michael Ang and Masahisa Masukawa, <i>Mitsubishi Heavy Industries America, Inc.</i></p>	<p><b>Moderator:</b> Lawrence Smith, <i>APM Standards Committee</i></p> <p>Standards Committee members will provide an introduction to the role of the committee, history, procedures, future directions, and challenges in developing APM standards.</p>	<p><b>The Pitfalls of Mitigating Safety Hazards with Procedures</b>, Brian Yeschenko and Dennis Hinish, <i>Lea+Elliott, Inc.</i></p> <p><b>New Energy Concept for Rope Propelled APM Systems</b>, Patrick Casagrande, <i>Doppelmayr Cable Car GmbH &amp; Co. KG</i></p> <p><b>*Implementing an Integral Product Lifecycle Management System in Sheremetyevo International Airport</b>, Johannes Winter and Ignacio Sesma, <i>Doppelmayr Cable Car GmbH &amp; Co. KG</i></p>
12:00 – 12:30 p.m. <b>Closing Plenary</b>			

## The Official Conference Hotel

### Hilton Tampa Downtown

211 N. Tampa Street  
Tampa, FL 33602  
(813) 204-3000

**Online Reservations:** visit [www.apmconference.org](http://www.apmconference.org) and click on Location and then Hotel & Travel

**Rates:** Single/Double: \$179 per room, per night

A limited number of rooms are being held at the prevailing government rate.

In order to receive the discounted APM-ATS Conference room rate, you must ask for the ASCE/AMP Conference 2018 room block when calling to make your reservation.

All rates are subject to applicable tax, per night, and is subject to change without notice.

**Reservation Cut-Off Date:** Friday, April 6th (or until the room block is sold out)

**Check-In Time:** 3:00 p.m. **Check-Out Time:** 12:00 p.m.



## Airport and Ground Transportation

### Tampa International Airport (TPA)

4100 George J Bean Pkwy  
Tampa, FL 33607

The Tampa International Airport is approximately 9 miles from the Hilton Tampa Downtown.

# Exhibit Information

## See you in the Exhibit Hall

Exhibits reflecting all areas of APM design, construction, and operation will run throughout the conference to give you a look at leading edge suppliers and service providers to the industry and ideas for your projects and operations.

## Exhibit Hall Schedule

*(Subject to change)*

### Sunday, April 29

- 1:00 – 5:00 p.m. **Exhibitor Move-In**
- 6:00 – 7:30 p.m. **Exhibit Hall Open**
- 6:00 – 7:30 p.m. **Ice Breaker Reception**

### Monday, April 30

- 8:00 – 4:00 p.m. **Exhibit Hall Open**
- 8:00 – 8:30 a.m. **Light Continental Breakfast**
- 10:00 – 10:30 a.m. **Networking Break**
- 12:00 – 1:30 p.m. **Lunch**
- 3:00 – 3:30 p.m. **Networking Break**

### Tuesday, May 1

- 8:00 a.m. – 1:00 p.m. **Exhibit Hall Open**
- 8:00 – 8:30 a.m. **Light Continental Breakfast**
- 10:00 – 10:30 a.m. **Networking Break**
- 12:00 – 1:00 p.m. **Lunch in Exhibit Hall**
- 1:00 – 4:00 p.m. **Exhibitor Move-Out**

## 2018 Sponsors

*(as of 11/10/18)*

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## 2018 Exhibitors

*(as of 11/10/18)*



**Get your name in front of the most qualified decision-makers in the APM industry.** Here you will gain maximum exposure with extended hours and special Exhibit Hall events.

**Sponsorship and exhibit opportunities are available.** Visit [www.apmconference.org/sponsors](http://www.apmconference.org/sponsors) or [www.apmconference.org/exhibitors](http://www.apmconference.org/exhibitors) or contact Drew Caracciolo at (703)295-6087 or [dcaracciolo@asce.org](mailto:dcaracciolo@asce.org) for more information.

# General Information

## ADA Compliance

The Hilton Tampa Downtown is ADA compliant and meets all regulations. If you require special assistance at the Conference, please submit a written description of your requirements with your registration form or email [registrations@asce.org](mailto:registrations@asce.org) before **Monday, April 2, 2018**. While ASCE will make every effort to meet the needs of the disabled, accommodations cannot be guaranteed without prior notification.

## Attendee Packets

Advance registrants will receive their name badges and any tickets ordered at the ASCE Registration Desk during registration hours. Advance registrants should present the official ASCE registration receipt to on-site registration staff to obtain APM-ATS Conference materials. If you submit a registration form via fax or postal mail one week prior to or after the registration cutoff date, please be sure to bring a copy of your fax or postal confirmation (as well as your email confirmation if you have received one), along with the original registration form paperwork to ensure ASCE on-site registration staff can process your registration. Due to the time constraints near and after the registration cutoff date, the appropriate paperwork may not have been forwarded to the on-site staff before their departure.

## Attire

The dress code for the APM-ATS Conference is business casual (i.e. slacks, casual dresses) to business attire (i.e. neckties, business suits). Meeting room temperatures will vary, so wear layered clothing to ensure your personal comfort. We also recommend attendees wear comfortable shoes. Please note that certain events may have specific details on attire, and you should refer to the event description for more information.

## Badge Policy and Ribbons

Your APM-ATS Conference registration name badge is your admission to the educational sessions. Please wear your badge at all times while at Hilton Tampa Downtown Hotel. Tickets are required for the pre- and post-convention events, meals, and special events. Where tickets are required, please be sure to bring your tickets with you to each event as you will not be admitted without a ticket. Ribbons will be available at the Registration Desk. ASCE recommends you remove your badge when leaving the hotel.

## City Information

For more information on Tampa, FL, or the surrounding area, please visit the location page at [www.apmconference.org](http://www.apmconference.org).

## Sustainable Conference Policy Statement

ASCE is committed to sustainable meetings in accord with the ASCE policy on The Role of the Civil Engineer in Sustainable Development. ASCE defines sustainability as a set of economic, environmental, and social conditions in which all of society has the capacity and opportunity to maintain and improve its quality of life indefinitely, without degrading the quantity, quality, or availability of natural resources and ecosystems.

Sustainable development is the process of converting natural resources into products and services that are more profitable, productive, and useful, while maintaining or enhancing the quantity, quality, availability, and productivity of the remaining natural resource base and the ecological systems on which they depend. To that end, ASCE works with hotels and convention centers that strive to make our events green and include amenities such as reusable pitchers and water coolers rather than plastic bottles.

## International Letter of Invitation Requests

- Send requests to [International@asce.org](mailto:International@asce.org) and your conference invitation letter will be prepared and sent in pdf format via email. Registration must be completed and paid before a letter of invitation can be sent. A copy of your registration confirmation email must accompany your letter request. Please be ready to provide your complete official name, date of birth, physical address, email address, and passport number (if available)
- Letters may be faxed if requested. Please provide a fax number and indicate that, in addition to the email copy, you would also like to receive the letter via fax.
- Letters cannot be emailed or sent to the U.S. Embassy or Consulate. ASCE cannot intervene on behalf of invitees with the U.S. Embassy or Consulate via fax, phone, surface mail, or email.
- If you have any questions, please contact us at [international@asce.org](mailto:international@asce.org).
- If you are unable to obtain a visa, your cancellation must be received in writing by ASCE by **April 4, 2018**, to receive a refund for registration fees. A \$65 processing fee will be deducted from all refunds.
- Visit the conference website for additional information about letters of invitation.

## Meeting Room Overcrowding

ASCE will make every effort to schedule popular events in rooms large enough to accommodate anticipated attendance. Because many events are extremely popular, it is wise to select alternative events as you plan your conference schedule. ASCE and the Hilton Tampa Downtown Hotel are REQUIRED to follow local fire regulations and may ask participants in rooms filled to capacity to choose another event.

## No Smoking Policy

ASCE supports a "No Smoking" policy. Smoking is prohibited in the Hilton Tampa Downtown Hotel, and at all indoor venues hosting ASCE events.

## Proceedings

All full registrants are able to receive proceedings online. Link will be included in the final program.

## Professional Development Hours (PDHs)

You may earn PDHs, which are nationally recognized units of record, by attending the APM-ATS Conference sessions and workshop. Please note there are differences from state to state in continuing education requirements for professional engineering licensure. ASCE follows NCEES guidelines on continuing professional competency. Because continuing education requirements for P.E. license renewal vary from state to state, ASCE strongly recommends that individuals regularly check with their state requirements that affect P.E. licensure and the ability to renew licensure. For details on your state's requirements, please go to: [www.ncees.org/Licensing\\_boards.php](http://www.ncees.org/Licensing_boards.php).

## Program Changes

ASCE reserves the right to cancel programs and/or sessions because of low registration. In the unlikely event of a cancellation, all registrants will be notified and will receive a full refund, if applicable. Programs and sessions are subject to change and ASCE reserves the right to substitute a program, session, and/or speaker of equal caliber to fulfill educational requirements.

## Recording of Sessions

Video or audio recording of any educational session is strictly prohibited without prior written permission from both ASCE and the session presenter(s).

## Release/Waiver/Special Assistance

**Photographs and Video:** Photographs and video of the event may be taken by ASCE, its agents, contractors, or representatives, and such photographs and video may be used for any purpose at ASCE discretion.

**Liability Waiver:** By submitting my registration, I acknowledge and agree that I am undertaking to participate in the conference activities as my own voluntary and intentional act. I agree that I alone am responsible for determining whether I am physically capable of participating in any conference activity, and I understand that there is risk associated with my participation, which may include without limitation, injury or loss caused by my own negligence or the negligence of others. With knowledge and acceptance of the risks involved, I accept full responsibility for my own safety and well-being. In consideration of my participation in conference activities, I hereby waive, release, hold harmless, and discharge ASCE and its officers, directors, and employees from any and all loss or injury that may be suffered by me in connection with conference activities to the fullest extent permitted by law.

## Weather

The temperatures should average from a high of about 83 and low of about 65 degrees Fahrenheit.



# Registration Information

## Receive Member Rates!

Not a member of T&DI or ASCE? Join today and save on your APM-ATS 2018 Conference registration. For information on joining T&DI, visit [www.asce.org/tdi/membership](http://www.asce.org/tdi/membership) or call **(800) 548-ASCE (2723)** to request an application and/or register for the Conference. To join ASCE, please visit [www.asce.org/join](http://www.asce.org/join). For more information on member benefits, go to [www.asce.org/membership](http://www.asce.org/membership). NOTE: You must be a member in good standing to qualify for the member rates.

## Early Bird Registration Discount (EB)

Don't miss out! Register early and receive the best savings. The deadline for early bird registration is **March 14, 2018**. Registration forms, including complete payment information, must be RECEIVED by this date to qualify for the early bird registration discount.

## Advance Registration Discount (ADV)

If you miss the early bird deadline, you can still take advantage of the Advance registration discount. The deadline for Advance registration is **April 11, 2018**. Registration forms, including complete payment information, must be RECEIVED by this date to qualify for the Advance registration discount.

Please do not mail registration forms through the U.S. Postal Service AFTER March 28, 2018, to ensure your registration is processed by the April 11, 2018, deadline. After this date, registrations must be secured with a credit card. To pay by credit card, please register online or download the PDF registration form and submit it on-site along with your full credit card payment.

## Confirmation of Registration

Confirmation will be e-mailed to all Early Bird and Advance registrants within one week of registering for the conference. Online registrants should receive immediate notification following submission of the registration information. Pre-registered attendees will receive their name badges and any tickets ordered at the on-site ASCE Registration Desk during registration hours.

If you do not receive confirmation within one week, please contact ASCE Registration at **(800) 548-2723** and ask to speak with Customer Service, or e-mail [registrations@asce.org](mailto:registrations@asce.org). Please reference APM-ATS 2018 Conference in the subject line.

## Program and Session Cancellation

ASCE/T&DI reserve the right to cancel programs and/or sessions because of low registration. In the unlikely event of a cancellation, all registrants will be notified and will receive a full refund, if applicable. Programs and sessions are subject to change, and ASCE/T&DI reserve the right to substitute a program, session, and/or speaker of equal caliber to fulfill the educational requirements.

## Payment Information

Acceptable forms of payment include:

- **CHECK:** payable to ASCE/APM-ATS 2018 Conference (In US dollars, drawn on a US bank. You must include attendee's name in the memo area of the check.)
- **CREDIT CARD:** VISA, MasterCard, American Express, Diners Club, and Discover
- **PURCHASE ORDER:** P.O. #, company name & address or other billing address (This includes government P.O. use) Mail Registrations to: ASCE/APM-ATS 2018 Conference, P.O. Box 79668, Baltimore, MD 21279-0668. Full payment MUST accompany all registration forms. Forms will not be processed without payment or copy of P.O.

## On-Site Registration Hours\*

<b>Sunday, April 29</b>	12:00 – 6:30 p.m.
<b>Monday, April 30</b>	7:30 a.m. – 5:00 p.m.
<b>Tuesday, May 1</b>	7:30 a.m. – 2:00 p.m.
<b>Wednesday, May 2</b>	7:30 a.m. – 12:00 p.m.

\*Hours are subject to change

## Cancellations/Refunds

Cancellations must be received by ASCE in writing or via e-mail. A refund will be issued, minus a **\$65 processing fee**, if the cancellation notice is received by ASCE by **April 4, 2018**. No refunds will be made for cancellations received after **April 4, 2018**. Send cancellations to [registrations@asce.org](mailto:registrations@asce.org) or fax to (866) 902-5593.

	Full Registration			Daily		
	Member/ Non Member	Student	Exhibitor/ Sponsor	Monday	Tuesday	Wednesday
Operations & Maintenance Managers' Workshop	✓	✓	✓			
Icebreaker Reception – Sunday	✓	✓	✓			
Light Continental Breakfast – Monday	✓	✓	✓	✓		
Lunch in Exhibit Hall – Monday	✓	✓	✓	✓		
Evening Reception – Monday	✓	✓	✓	✓		
Guest for Evening Reception – Monday	✓	✓	✓	✓		
Light Continental Breakfast – Tuesday	✓	✓	✓		✓	
Lunch in Exhibit Hall – Tuesday	✓	✓	✓		✓	
Light Continental Breakfast – Wednesday	✓	✓	✓			✓

Remember to purchase your ticket to the Tampa Airport Technical Tour! The technical tour is not part of the registration package.

The last date to purchase a ticket for the tour is April 11, 2018 due to security requirements.

## Who Should Attend?

- APM and ATS Professionals
- Transit System Engineers
- Engineering Students
- System Operators
- Consultants
- Government Officials
- Designers, Contractors, and Manufactures
- Anyone with an interest in APM and ATS



# INTERNATIONAL CONFERENCE ON AUTOMATED PEOPLE MOVERS & AUTOMATED TRANSIT SYSTEMS

Tampa, Florida, USA | April 29 - May 2, 2018

## Registration Form

Please complete the registration form including signature and payment information. Use one registration form per person. Registrations will not be processed without full payment and registrant's full name. By submitting the registration form, the individual agrees to all registration policies on the [www.apmconference.org](http://www.apmconference.org) site.

### Contact Information (\*Indicates required information)

\*First Name \_\_\_\_\_ MI \_\_\_\_\_ \*Last Name \_\_\_\_\_  
 Credentials \_\_\_\_\_ Badge Nickname \_\_\_\_\_  
 Title \_\_\_\_\_  
 \*Company/Organization/University \_\_\_\_\_  
 \*Street Address/PO Box \_\_\_\_\_  
 \*City \_\_\_\_\_ \*State \_\_\_\_\_ \*Postal Code \_\_\_\_\_ \*Country  U.S.  \_\_\_\_\_  
 \*Primary Phone \_\_\_\_\_ \*Cell Phone \_\_\_\_\_  
 \*E-mail \_\_\_\_\_ ASCE Member Number \_\_\_\_\_

Please answer these questions so that we may serve you better (\*indicates required information):

\*The organization I work for is:  Private  Government  Education  Military  Other  
 \*My position is:  Partner/Principal  Senior Manager  Middle Manager  Technical/Professional  Staff Faculty  Student  Retiree  
 \*How many previous ASCE Conferences have you attended?  
 0  1  2  3 or more  
 \*My age group:  Under 25  25-34  35-49  50-65  Over 65

Check if you require:

Vegetarian  Lacto-Vegetarian  Ovo-Vegetarian  
 Vegan  Gluten Free  Other \_\_\_\_\_

Check if you have allergies to the following:

Peanuts  Tree Nuts  Seafood  
 Other \_\_\_\_\_

**ADA:** Check if you require special aids or services:

Deaf or Hearing Impaired  Blind or Visually Impaired  
 Wheelchair User  Other \_\_\_\_\_

Fax: (866) 902-5593  
 Phone: (800) 548-2723 (U.S.)  
 Phone: (703) 295-6300 (International)

Mail: ASCE/APM 2018 Conference  
 PO Box 79668  
 Baltimore, MD 21279-0668  
 USA

**Register by March 14, 2018 and Save!**

For complete Conference information and to register online, visit [www.apmconference.org](http://www.apmconference.org). For additional information please contact Customer Service at [registrations@asce.org](mailto:registrations@asce.org) or call (800) 548-2723.

### Full Registration

	EARLY BIRD By 3/14/18	ADVANCE By 4/11/18	ON SITE After 4/11/18
Member, ASCE/T&DI	<input type="checkbox"/> \$675	<input type="checkbox"/> \$775	<input type="checkbox"/> \$875
Non-Member	<input type="checkbox"/> \$810	<input type="checkbox"/> \$910	<input type="checkbox"/> \$1,010
Cooperating Organizations Agency	<input type="checkbox"/> \$675	<input type="checkbox"/> \$775	<input type="checkbox"/> \$875
Speaker/Moderator Member	<input type="checkbox"/> \$625	<input type="checkbox"/> \$725	<input type="checkbox"/> \$825
Speaker/Moderator Non-Member	<input type="checkbox"/> \$760	<input type="checkbox"/> \$860	<input type="checkbox"/> \$960
Full-Time Student <sup>1</sup>	<input type="checkbox"/> \$350	<input type="checkbox"/> \$350	<input type="checkbox"/> \$350

<sup>1</sup>Full-time students must submit valid ID onsite at registration desk when picking up name badge.

### Tour Registration & Additional Tickets

**Technical Tour** (Not included in registration fee.)

<b>Tuesday, May 1</b>	EARLY BIRD	ADVANCE	QTY
Tampa Airport, 2:00 – 5:00 p.m.			
Member, ASCE/T&DI	<input type="checkbox"/> \$25	<input type="checkbox"/> \$25	_____
Non-Member	<input type="checkbox"/> \$35	<input type="checkbox"/> \$35	_____

### Additional Tickets

(These events are included with Full Registrations. Only fill out this section if you require an additional ticket.)

	EARLY BIRD	ADVANCE	ON SITE	QTY
<b>Sunday, April 29</b>				
Icebreaker Reception in Exhibit Hall	<input type="checkbox"/> \$25	<input type="checkbox"/> \$25	<input type="checkbox"/> \$45	_____
<b>Monday, April 30</b>				
Lunch in Exhibit Hall	<input type="checkbox"/> \$70	<input type="checkbox"/> \$70	<input type="checkbox"/> \$85	_____
<b>Tuesday, May 1</b>				
Lunch in Exhibit Hall	<input type="checkbox"/> \$70	<input type="checkbox"/> \$70	<input type="checkbox"/> \$85	_____

#### Full Registrants:

Included in your Full Registration fee are the following events. There is no extra charge for these events. However, each registrant must pre-register in order to receive a ticket to the event.

#### Will you be attending?

Pre-Conference Operations & Maintenance Managers' Workshop (Sunday)  Yes, I will attend  No  
 Icebreaker Reception in Exhibit Hall (Sunday)  Yes, I will attend  No  
 Lunch in Exhibit Hall (Monday)  Yes, I will attend  No  
 Evening Reception (Monday)  Yes, I will attend  No  
 Evening Reception Guest (Monday)  Yes, guest will attend  No  
 Lunch in Exhibit Hall (Tuesday)  Yes, I will attend  No

### Daily Registration

	EARLY BIRD	ADVANCE	ON SITE
<input type="checkbox"/> Member, ASCE/T&DI	\$425	\$475	\$525
<input type="checkbox"/> Non-Member	\$510	\$560	\$610

Please select day of registration:  Monday  Tuesday  Wednesday

**PAYMENT: Full Payment must accompany this registration form. There is a \$65 dollar processing fee for refunds. No refunds granted for cancellations after April 4, 2018.**

Full Registration \$ \_\_\_\_\_  **CHECK** Checks must be issued in U.S. dollars and drawn on U.S. banks. To pay registration fee by check, postmark your registration by **April 4, 2018** and mail to:  
**ASCE/APM 2018 Conference**  
**PO Box 79668**  
 Baltimore, MD 21279-0668 USA

**CREDIT CARD**  AMEX  VISA  MasterCard  Discover  Diners Card  
 Credit Card # \_\_\_\_\_  
 Security Code \_\_\_\_\_ Expiration Date (MM/YY) \_\_\_\_\_  
 Cardholder Name \_\_\_\_\_  
 Signature \_\_\_\_\_

**TOTAL (amount to pay)** \$ \_\_\_\_\_  
 **PURCHASE ORDER**  
 # \_\_\_\_\_  
(must submit a copy of the PO with this registration)



# INTERNATIONAL CONFERENCE ON AUTOMATED PEOPLE MOVERS & AUTOMATED TRANSIT SYSTEMS

Tampa, Florida, USA | April 29 - May 2, 2018

## Thank You to Our Sponsors!

Contributions from the following sponsors will enable the Automated People Movers and Automated Transit Systems Conference to continue its commitment to excellence in programming and networking events for attendees.

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## 2018 Exhibitors



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For up-to-date information, visit  
[www.amconference.org](http://www.amconference.org)