ITE 2015 Fall Conference

Agenda with Speakers
(Subject to Change)

Sunday, October 25

9:00 a.m. – 12:00 p.m.  Coordinating Council Meeting (by invitation only)

Monday, October 26

9:00 a.m. – 4:30 p.m.  Concurrent Workshops

• Planning and Design Workshop: Using NACTO, Complete Streets, and Great Streets Concepts
  Developed by the ITE Complete Streets Council and the ITE Transit Standing Committee
  5.5 CM / 5.5 PDHs

PART 1: NACTO Urban Street Design Guide. The Institute of Transportation Engineers (ITE) in conjunction with National Association of City Transportation Officials (NACTO) will host a workshop based on the NACTO Urban Street Design Guide. Participants will learn about the Guide’s principles and its application to arterial corridors, evaluating their potential as a multimodal streets, and applying interim design strategies, intersection design strategies and street typologies, as well as other topics addressed in
Monday, October 26 - continued

the Guide. The session format will incorporate classroom instruction as well as provide a forum for dialogue and engagement between engineers, planners, and other professionals.

Moderator:  
Meghan F. Mitman, Principal Fehr & Peers, San Francisco, CA, USA

Instructor:  
Joe Gilpin, Principal, Alta Planning + Design, Bozeman, MT, USA

PART 2: Sneak Peak: NACTO Transit Street Design Guide Training and Workshop. NACTO will be releasing a draft of the Transit Street Design Guide in October 2015. ITE has been a collaborator in the preparation of this Guide, and this workshop offers ITE conference attendees the opportunity to get a sneak peak of the guide before its official release. In addition to a training on the guide’s components, attendees will participate in breakout groups to work on case study designs for local roadways.

Instructor:  
Matthew Roe, Director, Designing Cities Initiative, National Association of City Transportation Officials (NACTO), New York, NY, USA

Facilitators:  
Lawrence J. Marcus, Bureau Chief, Transportation Engineering and Operations, Arlington County, Arlington, VA, USA

Brian T. Welch, Senior Planning Manager, Denver Regional Transportation District, Denver, CO, USA

Andy Kosinski, Senior Transportation Engineer, Fehr & Peers, San Francisco, CA, USA

Learning Objectives:  
At the conclusion of this workshop, participants will be able to:

- Understand the application of core principles of the Urban Street Design Guide, including short-term and long-term strategies.
- Identify workable design solutions to enhance multimodal safety and mobility, and create a vibrant public realm.
- Gain comprehensive knowledge on component principles outlined in the NACTO Transit Street Design Guide.
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- Apply core principles of the *Transit Street Design Guide*, including short-term and long-term strategies.

- **Management and Operations in an Integrated Corridor Environment**
  
  *Developed by the ITE Transportation Systems Management & Operations Council and National Operation Center of Excellence*

  5.5 CM / 5.5 PDHs

This full-day session is a unique opportunity to hear lessons learned and participate in discussions that highlight how emerging issues could affect integrated corridor implementation. The session format will include a 4-hour workshop on how to implement Integrated Corridor Management. Transportation corridors often contain underutilized capacity in the form of parallel roadways, single-occupant vehicles, and transit services that could be better leveraged to improve person throughput and reduce congestion by moving away from the optimization of the performance of individual assets. The vision of integrated transportation networks is they will realize significant improvements in the efficient movement of people and goods through institutional collaboration and aggressive, proactive integration of existing infrastructure along major corridors.

**Part 1: Lessons Learned from Pioneer Implementation**

Hear lessons learned from Integrated Corridor Management pioneer sites (Dallas, Texas; Houston, Texas; Minneapolis, Minnesota; Montgomery County, Maryland; Oakland, California; San Antonio, Texas; San Diego, California; and Seattle, Washington) as well as other locations undertaking integrated corridor work.

**Moderator:**

**Eric E. Rensel,** Incident and Emergency Management National Services Manager, Gannett Fleming, Inc., Harrisburg, PA, USA

**Instructors:**

**Jeffrey A. Lindley,** Associate Administrator for Operations, USDOT-FHWA, Washington, DC, USA

**Dennis Motiani,** Executive Director, National Operations Center of Excellence, Washington, DC, USA

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**Faisal Saleem**, ITS Branch Manager, Maricopa County DOT, Phoenix, AZ, USA

Part 2: Relationship to Significant Trends in Management and Operations
Participate in breakout groups to discuss how Integrated Corridor Management interfaces with:
- Complete Streets
- Big Data
- Connected and Automated Vehicles
- Decision Support Systems

**Moderator:**
**Stephen R. Kuciemb**, Vice President, National ITS Director, Parsons Brinckerhoff, Baltimore, MD, USA

**Instructors:**
**Kenneth R. Marshall**, Divisional Vice President, Jacobs Engineering, Baltimore, MD, USA

**Alvin M. Marquess**, Jacobs Engineering, Baltimore, MD, USA

**Michael Meader**, National Sales Manager, NICE Systems, Inc., Rutherford, NJ, USA

**Kevin N. Balke**, Research Engineer, Texas A&M Transportation Institute, College Station, TX, USA

Part 3: Integrated Corridor Management Analysis Modeling and Simulation
Intended to motivate and equip participants to take advantage of specialized analytical tools to assess or refine Integrated Corridor Management concepts, designs, and plans. Analysis Modeling and Simulation (AMS) helps agencies identify the optimum combinations of strategies in their corridors. Conducting Integrated Corridor Management AMS helps agencies confirm that the operations strategies they are considering will have the intended effects when implemented before they invest in them.

**Neil Spiller**, ICM Program Manager, Corridor Management and Congestion Mitigation Strategies, USDOT-FHWA, Office of Operations – Office of Travel Management, Washington, DC, USA

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Learning Objectives:
At the conclusion of this workshop, participants will be able to:

- Define Integrated Corridor Management
- Identify the successes and challenges to operations associated with the early implementation sites for Integrated Corridor Management.
- Describe the relationship between Integrated Corridor Management and the needs and objectives of complete streets, big data, connected and automated vehicles, and decision support systems.
- Understand the use of the AMS results to refine a Concept of Operations and leading to a Memorandum of Understanding between the partners.
- Explain current modeling technologies and the applicability for Corridor Management.
- Provide feedback on the current AMS tool sets that will be used as part of the overall AMS effort.
Tuesday, October 27

7:30 – 8:00 a.m. Continental Breakfast

8:00 – 9:30 a.m. Opening Plenary Session - Beyond Traffic: Adapting to the Changing Expectations
1.5 CM / 1.5 PDHs

Based on the US Department of Transportation’s 30 Year Framework for the Future, the ITE Opening Plenary Session focuses on how the transportation industry needs to re-focus in view of growing trends in commuting, land use, recreation, and technology. Jeff Paniati, incoming ITE Executive Director and CEO, Regina Hopper, President & CEO, ITS America, King Gee, Director of Engineering and Technical Services, AASHTO, Jeff Lindley, Associate Administrator, Office of Operations, FHWA, Neil Pedersen, Executive Director, Transportation Research Board, and Lynn Richards, President & CEO, Council for the New Urbanism, will share their perspectives and lead a lively, interactive – and frank - conversation on how the transportation industry is impacted by these trends and what it will need to do to respond effectively.

9:30 – 10:45 a.m. Networking Break

11:00 a.m. – 1:00 p.m. Concurrent Workshops

  Developed by the ITE Transportation Safety Council
  2.0 CM / 2.0 PDHs

This workshop will address concepts of quantitative highway safety evaluation and analysis. It will provide a basic introduction to the Highway Safety Manual (HSM) including examples of the Roadway Safety Management Process, Predictive Methods, and the use of Crash Modification Factors (CMFs).
Participants will have the opportunity to engage in a hands-on demonstration including a controlled review and use of software tools to assist in applying the HSM. Instructors will lead participants in a real-life project evaluation using the Federal Highway Administration’s (FHWA’s) Interactive Highway Safety Design Model (IHDSM) software.

Participants should bring their own fully-charged windows-based laptops.

Instructors:
Mohamadreza Banihashemi, Senior Transportation Research Engineer II, GENEX Systems, McLean, VA, USA

John McFadden, Technical Director Safety R&D, USDOT-FHWA, McLean, VA, USA

Learning Objectives:
At the conclusion of this workshop, participants will be able to:

- Understand the concept of quantitative highway safety and become familiar with numerous quantitative safety measures.
- Recognize how to use the HSM and understand how the different parts of the manual relate to quantitative safety evaluation.
- Identify the strengths and weaknesses of highways safety evaluation tools include the FHWA’s IHDSM software.

- Application of the Unsignalized Intersection Guide
  Developed by the ITE Traffic Engineering Council
  2.0 PDHs

Thousands of fatalities per year occur at unsignalized intersections, which represent approximately 90 percent of all intersections in the United States. To better address safety performance, operations, multimodal needs, and other impacts, the National Cooperative Highway Research Program recently released the Unsignalized Intersection Guide. This workshop will focus on applying the guide to address safety and operational issues for all users at unsignalized intersections. Through presentations and case studies, the session will discuss practical and multimodal methods and techniques that will aid practitioners in selecting design, operational, maintenance,
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enforcement, and other types of treatments to improve safety, mobility, and accessibility.

Instructors:
Jeffrey B. Shaw, Safety/Design Engineer, USDOT-FHWA, Matteson, IL, USA
Jonathan P. Soika, Senior Transportation Engineer, VHB, Raleigh, NC, USA

Learning Objectives:
At the conclusion of this workshop, participants will be able to:
• Identify key components from the Unsignalized Intersection Guide to enhance the safe operation for all users of unsignalized intersections.
• Explain the use of the guide and its practical and multimodal methods and techniques that will aid practitioners in selecting design, operational, maintenance, enforcement, and other types of treatments to improve safety, mobility, and accessibility.
• Understand of the application of the guide through case studies of safety issues at unsignalized intersections.

1:00 – 2:30 p.m.        Lunch
1:00 – 6:00 p.m.        ITE Connected Vehicle Support Task Force Meeting
2:30 – 6:00 p.m.        Concurrent Workshops
• Tools for Being an Effective Transportation Consultant
  Developed by the ITE Transportation Consultants Council
  3.5 PDHs

What makes a consultant successful in the transportation profession? This highly interactive, peer-led workshop provides participants with the opportunity to discuss critical, top-tier topics relating to being an effective consultant. Experienced consultants from a wide range of firms will share their perspectives on how they have been successful serving clients while operating a successful business. The workshop will focus on two primary topic areas:
  1. Managing and operating small, medium, and large firms; and

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2. Marketing and business development

A combination of small-group discussions and peer-to-peer interactions will enable participants to learn and share their own experiences. In addition to the two topic areas, attendees will have the opportunity to submit questions and other topics that can be addressed during the symposium.

**Part 1 - Managing and Operating Small, Medium, and Large Firms Workshop:**

**Moderator:**
**Alfred A. Guebert**, Manager, Transportation, Watt Consulting Group, Calgary, AB, Canada

**Instructors:**
**Jeff G. Gerken**, President, Albeck Gerken, Inc., Tampa, FL, USA  
**Amir Rizavi**, Senior Project Manager, Vanasse Hangen Brustlin Inc., Newark, NJ, USA  
**C. Brian Shamburger**, Vice President, Kimley-Horn and Associates, Inc., Fort Worth, TX, USA

**Part 2 - Marketing and Business Development Workshop:**

**Moderator:**
**Donald R. Samdahl**, Principal/Senior Project Manager, Fehr and Peers, Seattle, WA, USA

**Instructors:**
**Kenneth W. Ackeret**, Principal, Kimley-Horn & Associates, Inc., Las Vegas, NV, USA  
**Don McKenzie**, Technical Director/Auckland Branch Manager, Traffic Design Group Limited, Auckland, New Zealand  
**Michael P. Sanderson**, President/CEO, Sanderson Stewart, Billings, MT, USA

**Learning Objectives:**
- Understand how successful consultants manage and operate their companies
- Identify techniques used to find new clients and market your company’s services

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- Apply practical strategies and tools to be a more effective consultant

- Innovative Intersection Application, Design and Operations
  *Developed by the ITE Traffic Engineering Council*
  3.5 CM / 3.5 PDHs

As traffic volumes continue to grow, highway junctions are increasingly becoming a source of heightened delay and risk for roadway users. Increased congestion and travel demands often lead to safety problems that are too complex for conventional intersection designs to properly handle. Consequently, various innovative treatments are being explored as solutions to these complex problems.

This workshop examines multiple innovative intersection and interchange design treatments that offer substantial advantages over conventional at-grade intersections and grade-separated diamond interchanges. It provides detailed information on several treatments including salient geometric design features, operational and safety issues, access management considerations, construction sequencing, environmental benefits, costs, and more.

**Moderator:**
Matthew R. Crim, Transportation Engineer, Stantec, Houston, TX, USA

**Instructors:**
* SR 189 at the Mariposa Land Port of Entry Innovative Intersection Design - Anita Shanker Johari, Principal, ASJ Engineering Consultants LLC, Chandler, AZ, USA and Vinay Vanapalli, Traffic Engineer, Stantec, Phoenix, AZ, USA

* Development of The HAWK (Pedestrian Hybrid Beacon) and The BikeHAWK, PUFFIN HAWK, PELICAN and TOUCAN Crossing Techniques - Richard B. Nassi, Consultant, Pima Association of Governments, Tucson, AZ, USA

* Indirect Left Turns and the Arizona Parkway - Robert E. Maki, Retired, Anthem, AZ, USA

* Western U.S. Designs and Place Making Designs - Mike Brown, President, Metro Analytics, Salt Lake City, UT, USA

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Learning Objectives:
At the conclusion of this workshop, participants will be able to:

- Understand the operation, benefits, and costs of several innovative intersection and interchange treatments.
- Identify practical guidance to support implementation, maintenance, and operation of these innovative treatments.
- Apply an understanding of the design implications and operational applications through participation in table top case studies.

6:00 – 7:30 p.m. Networking Social
Wednesday, October 28

8:00 – 8:30 a.m.  Continental Breakfast

8:30 a.m. – 12:00 p.m.  Concurrent Workshops

- **Application of Access Management Guidelines and Barriers to Implementation**
  
  *Developed by the ITE Traffic Engineering and ITE Transportation Planning Council*
  
  3.5 CM / 3.5 PDHs

The safety, mobility, and economic benefits of applying access management are well documented, known, and compelling; yet, state and local agencies often encounter many challenges in achieving desirable access management outcomes. There is great opportunity to realize the benefits from access management when the transportation planning process is used to drive the implementation of access management.

This workshop will focus on applying the current state of the practice guidelines to address implementation strategies as well as barriers in the application of access management policies. It will be of interest to practitioners involved with transportation operations and planning at the local, regional, and state levels.

**Moderator:**
Philip B. Demosthenes, Principal, Philip B. Demosthenes LLC, Denver, CO, USA

**Instructors:**
Chris Huffman, Registered Professional Engineer / Certified General Real Property Appraiser, Huffman Corridor Consulting, LLC, Topeka, KS, USA

Philip B. Demosthenes, Principal, Philip B. Demosthenes LLC, Denver, CO, USA

Lawrence J. Marcus, Bureau Chief, Transportation Engineering and Operations, Arlington County, Arlington, VA, USA

**Learning Objectives:**

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At the conclusion of this seminar, participants will be able to:

• Understand how transportation policymakers and practitioners can incorporate access management into transportation plans.
• Identify the benefits realized from access management when the transportation planning process is used to drive the implementation of access management.
• Recognize and apply practical guidance to support implementation of access management.
• Understand and apply the operational principles presented through access management case studies.

• Innovative Bicycle Design Treatments in Australia and New Zealand

*Developed by the ITE Complete Streets Council*

3.5 CM / 3.5 PDHs

This workshop will showcase bicycle design treatments observed during the ITE 2015 Study Tour of Sydney and Melbourne, Australia, and Auckland, Wellington, and Christchurch New Zealand. Information will presented on each community’s approach to cycle-way planning and design, from the incorporation of customer preferences to design principals for evidence-based, cost effective, collaborative, culture solutions leading to specific design treatments like separated bike lanes, bike boxes, and bike signals. Additionally, there will information shared on designs for accommodating cyclists at roundabouts, the New Zealand Cycle Trail, and the SkyPath project in Auckland.
Instructors:

**Don McKenzie**, Technical Director/Auckland Branch Manager, Traffic Design Group Limited, Auckland, New Zealand

**Andrew P. O’Brien**, Chairman, O’Brien Traffic, Hawthorn East, VIC, Australia

**Bob Murphy**, President, RPM Transportation Consultants, LLC, Nashville, TN, USA

**W. Hibbett Neel, Jr.,** President/Chief Executive Officer, Neel-Schaffer, Inc., Jackson, MS, USA

**Michelle Birdsall**, ITE Journal Senior Editor and Writer, Institute of Transportation Engineers, Washington, DC, USA

Learning Objectives:
At the conclusion of this workshop, participants will be able to:

- Describe innovative bicycle treatment from Australia and New Zealand and their applicability to the North American planning and design environment.
- Identify planning principals used by the public agencies that led to the design treatments.

8:30 a.m. – 5:30 p.m. **ATC APIRI Workshop**
The opportunity to move to a new generation of transportation field devices is here! The Advanced Transportation Controller (ATC) Application Programming Interface (API) Reference Implementation (APIRI) software provides ATC units with the ability to perform a wide variety of Intelligent Transportation Systems (ITS) field applications simultaneously. This workshop demonstrates the software on ATC units from various manufacturers and provides training for decision makers, managers, operations personnel, consultants, and software developers.

10:00 – 10:30 a.m. **Networking Break**

10:00 a.m. – 12:00 p.m. **TPCB Board of Directors Meeting (by invitation only)**

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12:00 – 2:00 p.m. Closing Plenary (with Lunch) - Beyond Traffic: Transforming Transportation to Meet Changing Expectation – A Practical Perspective
1.0 CM / 1.0 PDH

During the opening plenary, attendees heard about the challenges the transportation industry is facing regarding new trends and how to address them. As the conference wraps up, attendees will hear Jennifer Toth, Director, Maricopa County Department of Transportation, on how she confronts these challenges at the local level. She will provide real-world examples on addressing these trends and share her feet-on-the-ground perspective on how transportation professionals need to adapt.

2:30 – 5:30 p.m. Technical Tours

- **The Old Pueblo Bike Tour: Tucson, a Gold-Rated, Bicycle-Friendly Community**
  This leisurely-paced bicycle tour will focus on innovative bicycle infrastructure in Tucson’s urban core. Frequent stops will be made to discuss completed and planned projects. The tour will include the iconic rattlesnake shared-use path bridges (and yes, it rattles), Tucson’s first separated bike lanes, bicycle boulevards, bicycle crossings and more! The tour covers roughly 4 miles of Tucson bikeways and is mostly on low-stress bicycle routes. The ride will be suitable for beginner riders.

- **Tucson's Modern Streetcar: Sun Link**
  Participants will visit the Tucson Streetcar operations center and take a ride on a streetcar while learning about the Sun Link Streetcar program. The 3.9 miles starter segment began operations in July of 2014 and celebrated its one-year anniversary this summer. The streetcar extends from the University of Arizona Medical Center through Downtown to the west-side of Interstate 10. The primary funding sources for the $186 million dollar project were $75 million generated through a county-wide sales tax and a $63 million TIGER
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grant. As a result of the streetcar, the City has seen extensive development along the 3.9 miles alignment.

Please note: there will be a half mile walk from the operations center to the street car.

- **Innovative Intersection Treatments: View of HAWKs, PELICANs, TOUCANs, and PUFFINs in their Native Habitat**
  Tour participants will see first-hand various examples of pedestrian and bicycle crossings, including HAWKs, PELICAN, PUFFINs, and TOUCANs, at key intersections in the city. Transportation will be provided.
Thursday, October 29

9:00 a.m.  *LeadershipITE* Golf Tournament

Tee off on the Westin La Paloma’s award winning private 27-hole Jack Nicklaus Signature Golf Course.