### TECHNICAL TRACKS

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#### SESSION 2  
**MONDAY, 10:30 AM – 12:00 PM**

**2A: Moderator: Alyssa Reynolds**
- **ITS Applications in Transit Planning & Operations**  
  Speaker: Rudy Kolaja, Traffic Operations Engineering
- **Modeling Transit Engineering Infrastructure: SYNCHRO Can Do That?**  
  Speaker: Andy Kosinski, Fehr and Peers
- **Metro Orange Line Extension; Four Years Early and $61 Million Under Budget**  
  Speaker: Michael P. Meyer, Iteris

**2B: Moderator: Jonathan Hofert**
- **Analyzing the Impacts of Traffic Levels and Adaptive Traffic Control on Intersection and Mid-block Air Quality**  
  Speaker: Adam Moore, Portland State University
- **Automating Variable Speed Limits and Traveler Information with Real-Time Traffic and Weather**  
  Speaker: Joshua Crain, DKS Associates
- **Towards Self-Sustaining 511 Traveler Information Systems**  
  Speaker: Alan Clelland, Iteris

**2C: Moderator: Amit Kothari**
- **McDowell Sonoran Preserve Parking Study for City of Scottsdale**  
  Speaker: Paul Basha, EPS Group
- **Analyzing the Redevelopment of Underutilized On-Street Parking for HCT in Seattle**  
  Speaker: Matt Ricks, DKS Associates
- **Relationship between Parking and Transit Oriented Districts in Los Angeles: Eight TOD Case Studies**  
  Speaker: Gary Hamrick, Iteris

**2D: Moderator: Wylie Bearup**
- **Creating a Transportation Safety Culture: Clackamas County Transportation Safety Action Plan**  
  Speaker: Brian Ray, Kittelson & Associates
- **A Holistic Approach to Mitigate Rural Roadway Departure Crashes**  
  Speaker: Kohinooor Kar, ADOT
- **Establishing an Urban Road Safety Assessment Program**  
  Speaker: Kiran Guntupalli, MAG

#### LUNCH  
**MONDAY, 12:00 PM – 1:30 PM**  
**KICK OFF LUNCHEON**

#### VENDOR BREAK  
**MONDAY, 3:00 PM – 3:30 PM**

#### SESSION 3  
**MONDAY, 1:30 PM – 3:00 PM**

**3A: Moderator: Matt Weir**
- **Countywide Roundabout Preservation Plan**  
  Speaker: Andrew Cibor, Ada County Highway District

#### SESSION 4  
**MONDAY, 3:30 PM – 5:00 PM**

**4A: Moderator: Michael Sanderson**
- **Can We Help You Spend $906 Million to Improve Your Highways? The South Bay Cities Subregion Measure R Highway Program**  
  Speaker: Viggen Davidian, Iteris
- **Arizona Department of Transportation System-Wide Ramp Metering Evaluation**  
  Speaker: David Riley, United Civil Group
- **I-80 Corridor System Master Planning: Generating a Common Vision of the Future**  
  Speaker: Perry Gross, Nevada DOT

- **Analysis of Level of Service F in the 2010 HCM and Beyond**  
  Speaker: Erik Ruehr, VRPA Technologies
- **Gateway Cities SR-91 / I-605 / I-405 Congestion Hot Spot Feasibility Study**  
  Speaker: Wang Zang, PhD, MAG

- **Modeling Safety in Utah**  
  Speaker: Jacob Farnsworth, Brigham Young University
- **Applying HSM Crash Prediction to Manage Transportation Networks**  
  Speaker: Casey Bergh, Kittelson & Associates
- **HSM Predictive Method and IHSDM in Design Decision-Making – An Application in Arizona**  
  Speaker: Kohinooor Kar, ADOT
4B: Moderator: Sabine Ellis
- Driver Reactions to the Flashing Yellow Arrow in the Presence of Pedestrians
  Speaker: Patrick Marnell, Oregon State University
  Speaker: Wei Feng, Portland State University
- Development of Pedestrian Responsive Signal Timing Strategies: Results from a Pilot Study in Portland, Oregon
  Speaker: Sirashi Kothuri, Portland State University
- A Multi-Criteria-Based Guideline for Marked and Unmarked Pedestrian Crosswalks at Unsignalized Intersections
  Speaker: Yue Zhao, Student Paper Winner

4C: Moderator: Lisa Martellaro-Palmer
- A New Methodology to Utilize Smart Phone Weight-Mile Truck Data to Estimate Freight Emissions
  Speaker: Katherine Bell, Portland State University
- Understanding Travel Time and Origin-Destination Characteristics at Airports Using Bluetooth Technology
  Speaker: Wang Zang, PhD, Maricopa Association of Governments
- Incorporating Bluetooth Data into a Transportation Performance Measurement System
  Speaker: Rob Hranac, Iteris
- Pedestrian Data Collection Issues & Techniques
  Speaker: Andrew Kwasniak, Exponent

4D: Moderator: Kiran Guntupalli
- Using Empirical Bayes Method to Identify Crash Hot Spots After Implementing VSL System on a Rural Interstate Corridor
  Speaker: Sahana Promothes, University of Wyoming
- Assessment of Hit-and-RunCrashes in Southern California
  Speaker: Sahana Alam, California State Polytechnic University, Pomona

5A: Moderator: Danielle Scharf
- How are We Doing: Practical Livability Self-Assessment for Planning
  Speaker: Perry Gross, Atkins
- Lake Avenue Revitalization: An Update on the Livable Street Implementation
  Speaker: Gerrit Slatter, Matrix Design Group
- Planning Through Time and Space: Strategies for Generating Virtual Collaborative Planning Communities
  Speaker: Perry Gross, Atkins

5B: Moderator: Karen Aspelin
- Time and Monetary Benefits of Central Signal Systems
  Speaker: Michael Trueblood, Trafficware, LLC
- Flashing Yellow Arrows – City of Scottsdale’s Experience
  Speaker: Todd Taylor, City of Scottsdale, AZ
- Sometimes “Really Good" Time of Day Coordination Does Outperform Adaptive Control
  Speaker: Jason Shykowski, City of Roseville

5C: Moderator: Jerome Hall
- Adapting the Pedestrian Hybrid Beacon (HAWK) for Bicycle Use
  Speaker: Diahn L. Swartz, City of Tucson, AZ
- Starr Pass Boulevard and Mission Road Intersection Improvement
  Speaker: Felipe Ladrón de Guevara, AECOM
- Dynamic Message Sign in an Urban Environment
  Speaker: Joseph Couples, City of Seattle

5D: Moderator: Justin Link
- How Technology Mega-Trends are Changing Traffic Control as We Know It
  Speaker: Kurtis McBride, Miovision Technologies
- Roundabout as an Intersection Control
  Speaker: Michael Plotnik, Stack Traffic Consulting
- Analysis of Speed Compliance in Rural Variable Speed Limit System
  Speaker: Yanfei Sui, University of Wyoming
- Crash Reduction Factors Resulting From Installation of Active Advance Warning Flashers (AAWF)
  Speaker: Randy Kinney, Kinney Engineering
- Light Rail Collision Investigation for City of Phoenix
  Speaker: Paul Basha, EPS Group

SESSION 6 TUESDAY, 10:30 AM – 12:00 PM

6A: Moderator: Dave Sabers
- Developing Dwelling Unit Equivalence (DUE) Rates Using an Activity Based Travel Demand Model
  Speaker: Mike Mauch, DKS Associates
- Introducing the All new MAG 24-hr Regional DynusT DTA Model
  Speaker: Leo Luo, Maricopa Association of Governments

6B: Moderator: Kimberly Leung
- Light Rail is Great! But How Do I Get to the Train?
  Speaker: Mike Gill, Stantec Consulting Services
- Are Diamonds LRT’s Best Friend? At-Grade LRT Crossing at a Diamond Interchange
  Speaker: Nate Larson, HDR
- METRO Light Rail System
  Speaker: Wulf Grote, Valley Metro

6C: Moderator: Jenny Grote
- Concept Development, Analysis, and Design of a New Parkway At-Grade Interchange (PAGI)
  Speaker: Dr. James Witkoski, PhD, EPS Group
- Using MUD to Clean-up Traffic Congestion and Improve Safety
  Speaker: Jason Pagnard, Burgess & Niple
- Sight Distance to Prevent Right Hook Collisions on Separated Bike Lanes
  Speaker: Walter Okitsu, KOA Corporation
- Effects of Left Turn Treatments on Intersection Safety
  Speaker: Azadeh Azad, City of Hawthorne
### 6D:
- **Future is Now – A Forum to Gain Member Input on Needed ITE Programs and Services Roundtable**
  - ITE Panel
  - ITE Community
  - Speaker: Aliyah Horton

### LUNCH
- **TUESDAY, 12:00 PM – 1:30 PM**
- ANNUAL BUSINESS LUNCHEON

### SESSION 7
- **TUESDAY, 1:30 PM – 3:00 PM**

#### 7A: Moderator: Stephen Orosz
- **Broadway and Third Street Protected Bikeway (aka Cycle Track) “Before” and 12-Month “After” Study in Long Beach, CA**
  - Speaker: Min Zhou, KOA Corporation
- **A Comparison of Bicyclists’ Performance at Urban Suburban, and Dedicated Path Intersection in Oregon**
  - Speaker: Kirk Paulsen, Portland State University
- **A Study of Bicycle Signal Compliance Employing Video Footage**
  - Speaker: S.R. Thompson, Portland State University
- **The Effects of Weather on Cycling Demand and Its Implications for Data Collection Efforts**
  - Speaker: Pamela Johnson

#### 7B: Moderator: Paul Barricklow
- **Software-In-The-Loop (SIL) Simulation for Central Mesa Light Rail Transit**
  - Speaker: Jihong Cao, Parsons Brinckerhoff
- **Simulating Street-Running LRT Terminus Station Options in Dense Urban Environments**
  - Speaker: Shaumik Pal, Iteris
- **Benefits of Transit Signal Priority Corridor Maintenance**
  - Speaker: Mark Yand, DKS Associates
- **Rainier Avenue Transit Priority Corridor**
  - Speaker: Joseph Couples, City of Seattle, WA

#### 7C: Moderator: Luke Albert
- **Mini Roundabouts – FHWA Study**
  - Speaker: Scott Ritchie, Roundabouts & Traffic Engineering
- **The Mini Roundabout: An Innovative Solution to a Complex Situation**
  - Speaker: Jim Bloodgood, Snohomish County Public Works
- **Latest Roundabout Planning & Design Challenges**
  - Speaker: Scott Ritchie, Roundabouts & Traffic Engineering
- **Learning the Art of Roundabouts**
  - Speaker: Frank Broen, Teach America

### VENDOR BREAK
- **TUESDAY, 3:00 PM – 3:30 PM**

### TRAFFIC BOWL
- **TUESDAY, 3:30 PM – 5:30 PM**

### SOCIAL HOUR
- **TUESDAY, 6:00 PM – 7:00 PM**

### AWARDS BANQUET
- **TUESDAY, 7:00 PM – 12:00 PM**

### INTERACTIVE HIGHWAY SAFETY MODEL (IHSDM) TRAINING
- **Room: Salon J**
- **WEDNESDAY, 8:00 AM – 12:00 PM**

Included in the registration is IHSDM training from FHWA. Participants should plan on bringing a laptop pre-installed with the IHSDM software available on the FHWA website ([http://www.ihsdm.org](http://www.ihsdm.org)). The session facilitator/instructor will also have the software and other training materials available on flash drives.

**Description:** The Interactive Highway Safety Design Model (IHSDM) is a suite of software analysis tools for evaluating safety and operational effects of geometric design decisions. The IHSDM contains six evaluation modules. The current 2012 IHSDM release includes a Crash Prediction Module (CPM) that provides a faithful implementation of AASHTO’s Highway Safety Manual (HSM), Part C: Predictive Method for two-lane rural highways, multi-lane rural highways, urban and suburban arterials, and mainline freeways segments. The purpose of this session is to identify when and how IHSDM can be used in the project development process. It also describes key capabilities and limitations of IHSDM. Participants will gain hands-on experience with the IHSDM software.

**Outcomes:** Upon completion of the course, participants will be able to:
- Explain the scope and uses for the IHSDM tool.
- Describe the purpose of each of the six IHSDM modules.
- Understand the general workflow for IHSDM modules.
- Interpret and apply outputs from IHSDM to make highways safer.

**Target Audience:** Highway design project managers, planners, designers, and traffic and safety reviewers with at least one or two years of experience with highway design.

**Skill Level:** Participants should have general familiarity with highway design elements and terminology.
8B: Moderator: Julian Dresang
- Is the Current MUTCD Really Better than the 1961 Edition?
  Speaker: Jerome Hall, Professor Emeritus, University of New Mexico
- Traffic Engineering Functions in the State Government
  Speaker: Rudy Kolaja, Traffic Operations Engineering
- Static and Dynamic Sign Sheeting Testing Using In-Vehicle Observers
  Speaker: Edward Smaglik, Northern Arizona University

8C: Moderator: Kordel Braley
- Can Park-n-Rides Reduce Green House Gas Emissions?
  Speaker: Lisa Truong, University of Colorado Denver
- From Evolution to Revolution – An Overview of the Parking Industry
  Speaker: Brett Wood, Kimley-Horn and Associates
- LED Versus HPS Lighting: A Shoot-Out on the Nason Street Corral
  Speaker: Eric Lewis, City of Moreno Valley

BREAK

SESSION 9

9A: Moderator: Jason Shykowski
- Pedestrian Level of Service on the Strip in Las Vegas
  Speaker: Devin Moore, Kimley-Horn and Associates
- Rethinking Pedestrian Safety
  Speaker: Albert Letzkus, Traffic Engineering Consultant
- Folsom, California Pedestrian LRT Safety Improvements
  Speaker: Matt Weir, Kimley-Horn and Associates
- HAWKs, RRFBs, and Other Pedestrian Crossings
  Speaker: Todd Taylor, City of Scottsdale

9B: Moderator: Robert Sweeting
- Real Time Bus Tracking – Valley Metro LINK Bus
  Speaker: Ratna Korpella, Valley Metro
- Portland Ace: A Low-Cost Mobile Device for Assessing Bicyclists’ Exposure to Air Pollution
  Speaker: Alex Bigazzi, Portland State University
- York Street Corridor Traffic Signal Retiming Project
  Speaker: Nitin Deshpande, Jacobs Engineering Group

9C: Moderator: Minjie Mei
- Traffic and Circulation Analysis for Cubs Spring Training Facility
  Speaker: Eric Maceyko, EPS Group
- Searching for Parking on a Network: A Stochastic Shortest Path Approach
  Speaker: Sadegh Safarpour, University of Wyoming
- Intercounty Connector Posted Speed Evaluation
  Speaker: Erin Ferguson, Kittelson & Associates

LUNCH  WEDNESDAY, 12:00 PM – 2:00 PM
WESTERN STATES LUNCHEON