ITE Western District Annual Meeting

June 24-27, 2012
Santa Barbara, CA

Conference Program

Held at the
Fess Parker Doubletree Resort
Welcome to the ITE Western District 2012 Annual Meeting

On behalf of the Local Arrangements Committee, the Central Coast Section, the Western District leadership, and the City of Santa Barbara, we welcome you and your family to the Central Coast. We hope that you participate in the conference program and technical tours, gather practical information for providing excellent service to the people and communities in the western state’s, expand your network of professional peers, and have a chance to enjoy all the Central Coast has to offer from Ventura to San Luis Obispo.

Professional development is important, now more than ever in this changing economy, to help provide better, more efficient, services to our clients and communities and to advance our careers. The Western District Annual Meeting provides a great opportunity to expand your professional knowledge, your professional peer network, and your personal relationships in this beautiful and informal setting. Your participation will benefit you, your employer, your clients, and your community.

We have two experienced keynote speakers on Monday. The morning keynote speaker will be Roy Kienitz who runs his own consulting practice specializing in policy, finance and project management for major infrastructure investments. Before this Roy worked in and out of government at the federal and state levels for 25 years. The lunch keynote speaker is William Fulton. He is the Vice President for Policy and Programs at Smart Growth America. He is the former Mayor of Ventura, CA and is an author and professor. He is the author of several important books on urban planning.

We offer three technical session tracts with wide ranging topics from traffic safety to modeling, to parking, and to traffic signal operations.

There are four technical tours to choose from. On Sunday you can either head north to wine country for a tour of, and tasting of, several Santa Barbara County Wineries, or you can take the bicycle tour ride through the greater Santa Barbara area and see why this mode is highly used in this bike friendly town. On Monday there is a multi-modal walk, Segway, bike, and bus tour highlighting various pedestrian, bicycle, vehicle, bus and train facilities near the hotel. Finally, on Tuesday there is a roundabout tour of three local roundabouts; two that are multi-lane entry roundabouts and one smaller single lane entry roundabout.

We are hoping if you arrive on Saturday, you’ll take part in the MiteY Race. On Saturday, June 23rd, teams will compete in the next installment of the MiteY Race. The inaugural race in San Francisco two years ago was modeled after the hit television series “The Amazing Race” with teams following clues through the city visiting popular landmarks. This year’s race, themed “Life’s a Beach,” will take teams along the Santa Barbara waterfront following clues and completing challenging but fun tasks.

Have a great week and we thank you for making this Annual Meeting a success.

Sincerely,

2012 Local Arrangement Committee

Tom Mericle
LAC Chair
Thank you!

Each year, year after year, a dedicated group of professionals forms a Local Arrangements Committee to organize, host and support the Western District Annual Meeting. Thank you to this year’s committee and the committees that proceeded and provided guidance and insight to make this conference successful.

Local Arrangements Committee

General Chair
Tom Mericle, P.E., T.E., City of Ventura
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Vice-Chair - Finance
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Nathan Mustafa, Stantec
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Rick Gallegos, City of Ventura
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Traffic Bowl
Nathan Mustafa, Stantec
ntmustafa@gmail.com
## Registration Fees

**2012 Western District Meeting - Santa Barbara California**

### Registration Fees

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### Technical Sessions

- **Monday**
  - 10:30 am to 5:00 pm: Santa Barbara Foyer
- **Tuesday**
  - 8:30 am to 5:00 pm: Santa Barbara Foyer
- **Wednesday**
  - 8:30 am to 12:00 pm: Santa Barbara Foyer

### Individual Meals / Event Registration

- **Sunday**
  - 11:30 am to 5:00 pm: James H Kell Competition
- **Monday**
  - 12:00 pm to 1:30 pm: Kickoff Luncheon
- **Tuesday**
  - 12:00 pm to 1:30 pm: Annual Business Luncheon
- **Wednesday**
  - 12:00 pm to 1:30 pm: Western States Luncheon

### Notes:

- The Get Acquainted Social is open to all at no cost. However, only full registered delegates and registered spouse/guest will receive complimentary drink tickets. Drinks will be available to others at a cash bar.

- $15 per child for child care during the Annual Awards Banquet will be provided for children 3-13 years of age. Meal will be provided and the volunteers will organize activities. Parents/guardians must sign their kids in and out between 6:00 pm and 10:00 pm on Tuesday night.

### Registration Cancellation Refunds:

- If canceled by June 01, 2012 you will received 95% of all fees.
- If canceled by June 15, 2012 you will receive 50% after June 15: No Refund
The LAC and Western District Board would like to thank the following Sponsors, Vendors, and Exhibitors.

Without their support this meeting would not be possible

**Meeting Sponsors**

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Meeting Vendors and Exhibitors

[Logo images of various companies]
Keynote Speakers

Opening Keynote Address

Monday, 8:30 AM – 10:00 AM
Session 1
Regan Room

Roy Kienitz
Roy Kienitz LLC

Roy Kienitz runs his own consulting practice specializing in policy, finance and project management for major infrastructure investments. Before this Roy worked in and out of government at the federal and state levels for 25 years.

Most recently he served at the U.S. Department of Transportation as Under Secretary for Policy, the number three position in the agency. While at DOT he created and oversaw the TIGER discretionary grant program, and was deeply involved in high speed rail, the TIFIA loan program, and other major investment and regulatory efforts.

Before being appointed to USDOT by President Obama, he served as Deputy Chief of Staff to Governor Ed Rendell of Pennsylvania. In this role he oversaw transportation and environmental policy and managed major infrastructure projects, including the proposed lease of the Pennsylvania Turnpike, the expansion of the Pennsylvania Convention Center and the construction of a new hockey arena for Pittsburgh. Prior to this he spent several years as Secretary for Planning for the State of Maryland, helping guide the state’s smart growth program.

Roy began his career in the U.S. Senate, where he worked for the late, great Senator Daniel Patrick Moynihan of New York, including two years as Chief of Staff.

Roy is a graduate of the University of California.

Luncheon Keynote Address

Monday, Noon
Kick-Off Luncheon
Plaza del Sol

William Fulton
Vice President for Policy and Programs, Smart Growth America

Mr. Fulton former Mayor of Ventura, CA, author, professor, and politician in California. He is the author of several important books on urban planning, including The Reluctant Metropolis: The Politics of Urban Growth in Los Angeles; The Regional City: Planning of the End of Sprawl and the textbook Guide to California Planning.

Bill is also a Principal in the California-based planning firm, The Planning Center | DC&E and a Senior Scholar at the Price School of Public Policy at the University of Southern California. He will discuss the need for closer coordination between the planning and transportation engineering profession to bring about a more sustainable transportation system.
Technical Sessions

Monday through Wednesday
Final Program

The following program information is current as of June 9, 2012. Some changes to individual speaker assignments may occur at the last minute.

The technical program is comprised of the following four tracks:

• Track A – Planning
• Track B – Alternative Modes
• Track C – Capacity and Operations
• Track D – Special (two sessions only)

Monday, 10:30 AM – Noon  Session 2

2A - Planning for the Environment I (Anacapa Room)
Moderator: Ruth Smith, Willdan Engineering

Build It and They Will Come: Implementing Parking Improvements At Grand Canyon National Park, Jonathan Upchurch, Transportation Engineering Consultant

Applying Context Sensitive Solutions to Develop a Transportation Plan for Longview and Kelso, Washington, Anne Sylvester, Parametrix, Inc

Traffic Signal Maintenance - Best Practices, Steve Fitzsimons, SIEMENS, Republic ITS business unit

Commercial Double-Parking on a Congested Street: Implications for Transit Operations in San Francisco, Kristen E. Carnarius, University of California, Berkeley

2B — Transit Planning, Design, and Operations I (Santa Cruz Room)
Moderator: Neelam Sharma, URS Corporation

A Case Study on Metro Orange Line Bus Rapid Transit System, Lynne McAllister, California State University, Long Beach

Leveraging AVL/APC Bus Data to Determine Factors Influencing Transit Signal Priority Effectiveness, Eric Albright, Portland State University

Mapping Potential Metro Rail Ridership in Los Angeles County, Bin (Owen) Mo, California State University, Los Angeles

The Crenshaw LRT Corridor Multi-modal Traffic Study, Allen Nie, Hatch Mott MacDonald

2C — Transportation Capacity (Santa Rosa Room/San Miguel Room)
Moderator: Jim Poston, Regional Transportation Commission of Washoe County

Analysis of Downstream Queues on Upstream Capacity Expansion of Urban Signalized Intersections, Xin Yu, University of Hawaii at Manoa

San Bernardino County Population Growth Monitoring and Emergency Road Capacity, Noel Casil and Neelam Sharma, URS Corporation

The Riverside County Congestion Management Program: Using Technology to Efficiently Monitor Traffic Congestion, Erik Ruehr, VRPA Technologies

Performance Evaluation of Two Types of Interchange Design through Simulation, Jannet Loera Gutierrez, California State Polytechnic University, Pomona
Monday, 1:30 – 3:00 PM  Session 3

3A - Planning for the Environment II -  (Anacapa Room)
Moderator: Xudong Jia, Cal Poly Pomona

How Do Traffic Control Measures Affect Vehicle Gas Emissions, Ryan O’Connell, California State Polytechnic University, Pomona

A Selective Survey of Typical and Upcoming Transportation Data Priorities for Project-Level Noise and Air Quality Analyses, Michael Weber, Parsons


An Evaluation of The Effectiveness Of U.S Highway 93 Wildlife Overpass For Mule Deer And Other Wildlife In Nevada, Anabel Hernandez., University of Nevada, Reno

3B - Transit Planning, Design, and Operations II -  (Santa Cruz Room)
Moderator: Emelinda Parentela, California State University, Long Beach

Trip Generation Characteristics of a Suburban Transit Oriented Development, Nitin Deshpande, Jacobs Engineering Group, Inc.

The Impact of Traffic, Bus Fleet Characteristics, and Atmospheric Conditions on Particulate Matter Exposure: a Case Study in Portland, Oregon, Courtney Slavin, Portland State University

Feasibility Study for Intermodal Facility in Anchorage, Alaska, Jeanne Bowie, Kinney Engineering, LLC

Railroad Crossings and Traffic Signal Coordination, Cary Stewart, HDR Engineering, Inc.

3C - New Applications for Crash Studies -  (Santa Rosa Room/San Muguel Room)
Moderator: Grant G. Schultz, Brigham Young University

Highway Fatality Rate Reductions in ITE Western District States, Jerome Hall, University of New Mexico (UNM)

Incorporating Temporal Effect into Crash Safety Performance Functions, Wen Cheng, California State Polytechnic University, Pomona

Causal Exploration of Bicycle-related Accidents in San Francisco, Giovanni Bryden and Eric Catig, California State Polytechnic University, Pomona

Monday, 3:30 – 5:00 PM  Session 4

4A - Transportation Systems Planning and Management-  (Anacapa Room)
Moderator: Jinghua Xu, Parsons Brinckerhoff

I-215 Corridor System Management Plan, Terry R. Klim, DKS Associates

Advanced Traffic Management System When Widening Stops and Technology Begins, Eric H. Shimizu, DKS Associates

An Integrated Web-Based Transportation System Management, Mazedur Rahman, David Evans and Associates, E87 Inc.

Analysis of Multi-Modal Strategies on Interregional Traffic in the I-580 Corridor, Jim Damkowitch, Dowling Associates Inc.

4B - ITS Applications I -  (Santa Cruz Room)
Moderator: Chun Wong, LADOT

Assessment on 511 Travel Time Service, Mauro Arteaga, Los Angeles County Metropolitan Transportation Authority
Handheld Tablet Technology in an Establishment-Intercept Survey, Christopher Muhs, Portland State University

Linking Automated Performance Measurement and Traffic Signal Control, Tiffany Barkley, Berkeley Transportation Systems, Inc

Evaluating the Cost and Environmental Implications of Commercial Electric Vehicles in the LTL Delivery Industry, Brian A. Davis, Portland State University.

4C - Innovation in Design - (Santa Rosa Room)
Moderator: Cary Stewart HDR Engineering

SDDIs: How a Complete Misunderstanding Splintered a Diamond, Smith Siromaskul, HDR, Inc.

217 Interchange Management Study: A la carte Planning for an Unpredictable Fiscal Future, John Bosket, DKS Associates

Designing Roundabouts That Keep Vehicles Rolling In A Safer and Less Stressful Manner, Wei (Freddy) He, URS Corporation

Performance Evolution of Crossover Spacing of Diverge Diamond Interchange (DDI), Quang Le, California State Polytechnic University, Pomona

4D- Parking Management - (San Miguel Room)
Moderator: Rob Dayton, City of Santa Barbara

Panel Discussion on parking management to help reduce traffic congestion, improve parking utilization, and increase sustainability of the transportation system:

Donald Shoup, UCLA
Michael Kodama, Michael Kodama Planning Consultants
Tom Mericle, City of Ventura
Jeremy Nelson, Nelson|Nygaard Consulting Associates

Tuesday, 8:30 – 10:00 Session 5

5A - Project Planning, Programming and Finance - (Anacapa Room)
Moderator: Alyssa Reynolds, City of Henderson, NV

A Data-Driven Method for Prioritizing Projects in Central Idaho, Robert J. Schulte, DKS Associates

Value of Time - Tools to Help Validate Local Assessments, Randy McCourt, DKS Associates

Developing Agency Traffic Engineering Guidelines - Lessons Learned Developing Traffic Engineering Guidelines for the Ministry of Municipal and Rural Affairs, Kingdom of Saudi Arabia, Jim Hanson, Atkins


5B - ITS Applications II - (Santa Cruz Room)
Moderator: Kali Fogel, LA Metro

A Smart Phone Truck Data Application to Develop Freight Performance Measures and Support Transportation Planning, Katherine E. Bell, Portland State University

Intelligent Transportation Systems, Edward Ofiei, University of Wyoming

The Impact and future of High-Resolution Event Data, Xinkai Wu, California State Polytechnic University, Pomona

Air Quality and Multimodal Evaluation of an Adaptive Traffic Signal System: a case study on Powell Boulevard (Portland, Oregon), Courtney Slavin, Portland State University
5C - Traffic Control (Santa Rosa Room /San Miguel Room)
Moderator: Lee Cabell, Horrocks Engineers

Utilizing Innovative Technology for Lowering the Cost of Traffic Signal Synchronization Projects - A Case Study of Beach Boulevard (State Route 39), Ron Keith, OCTA

Signal Timing and Coordination Strategies under Varying Traffic Demands, Rasool Andalibian, University of Nevada, Reno

Developing a Guideline for Choosing Cycle Length Lead to Maximum Two-Way Progression in Respect to Intersection Spacing for Downtown Arterials, Saeedeh Farivar, University of Nevada, Reno

Roundabout Level of Service and Delay and Comparisons to Other Intersection Types, Erik Ruehr, VRPA Technologies

Tuesday, 10:30 – Noon  Session 6

6A — Traffic Control Enhancement and Impediments - (Anacapa Room)
Moderator: Carlos Ortiz, RBF Consulting

An Analytical Framework for Managed Lane Facility Performance Evaluation, Xiaoyue Cathy Liu, University of Washington, 2012 Western District Student Paper Winner

I-710 Freeway Simulation, Los Angeles, California, S.M.M Alam, URS Corporation

A Move Toward Standardizing Tsunami Warning Signs, Ruth Smith, Willdan Engineering

Sites Open to Public Travel - New Chapter of the Traffic Control Devices Handbook, Ransford S. McCourt, DKS Associates

6B — Roundabouts and Road Diets - (Santa Cruz Room)
Moderator: Justin Link, Associated Transportation Engineers

Roundabout Experience in Nevada after 20 Years, Samuel Kofi Ahiamadi, University of Nevada, Reno

Complete Street Analysis of a Road Diet: Orange Grove Boulevard, Pasadena, CA, Aaron Elias, Dowling Associates, Inc.

Traffic Study of Highway 46 Corridor Improvement with Roundabout Integration, Allen Nie, Hatch Mott MacDonald

Visual Simulation of Neighborhood Cut-Through Traffic in the City of Goleta, Jim Damkowitch, Kittelson & Associates Inc.

6C — Traffic Signals - (San Miguel)
Moderator: Leo Lee, Advantec Consulting Engineers, Inc

New Audible Signal Criteria, Lisa Martellaro-Palmer, Los Angeles City Department of Transportation

Signal Timing without Traffic Counts, Zong Tian, University of Nevada, Reno

Accessible Pedestrian Signal, Judy Wong, Los Angeles City Department of Transportation

Guidelines for Marked and Unmarked Pedestrian Crosswalks at Unsignalized Intersections, Yue Zhao, University of Nevada Reno

Tuesday, 1:30 – 3:00 PM  Session 7

7A - Planning Modeling - (Anacapa Room)
Moderator: Danielle R Scharf, Sanderson Stewart

A Synthetic Environment to Evaluate Alternative Trip Distribution Models, Xin Ye, California State Polytechnic University, Pomona

Applying DYNUST to I-10 Corridor Study, Tucson, AZ, Jim Schoen, Khang Nguyen, Kittelson & Associates, Inc.
Student Travel Mode Choice and Air Pollution Exposure: A Case Study at an Urban High School in Portland, Adam Moore, Portland State University

Alternative Transportation Feasibility Study - Little Bighorn Battlefield National Monument, Wei (Freddy) He, URS Corporation

7B - Bicycle Planning - (Santa Cruz Room)
Moderator: Sam Morrissey, City of Santa Monica

An Evaluation of Bike Lanes, Divya Nagananda, California State University, Long Beach

Automated Bicycle Data Collection: A Case Study from Portland, Oregon, Sirisha M. Kothuri, Portland State University

How Did The Bicyclist Cross The Road? A Case Study of Two Traffic Signals in Seattle, Mike Hendrix, Perteet, Inc

Planning and design of bikeway system for the City of Long Beach, Seth Torma and Min Zhou, KOA Corporation

7C - Traffic Simulations - (Santa Rosa Room)
Moderator: Xinkai Wu, Cal Poly Pomona

Traffic Simulation for Fire Evacuation Analysis for Mission Canyon Community Plan in Santa Barbara County, Jill Liu, Fehr & Peers

Exploration of Pedestrian Gap Acceptance at Two-Way Stop-Controlled Intersections using Simulation, Yue Zhao, University of Nevada Reno

The TRANSIMS Model: Combining Travel Demand and Microsimulation Modeling Paradigms, John Kerenyi, City of Moreno Valley

7D - Safety Lessons Learned in California- (San Miguel Room)
Moderator: Eduardo C. Serafin, UC Berkeley

Panel presentation and discussion on benefits and lessons learned from the California OTS/FHWA free traffic safety technical assistance safety programs.

Nazir Lalani, Traffex Engineers
Matt Benjamin, Fehr & Peers
Swati Pande, UC Berkeley
David Cohen, FHWA

Wednesday, 8:30 – 10:00 AM Session 8

8A - Planning Challenges - (Anacapa Room)
Moderator: Ernesto Chaves LACMTA

New Transportation Planning Paradigm: Constraints-Based Planning in the Era of Limited Transportation Funds, Donald Samdahl, Fehr & Peers

Localized Programming Models for Small Cities: A Case Study of Tehachapi, Tim A. Erney, AECOM


Advocacy groups: What makes them successful & powerful and how to develop an effective & healthy relationship between them and public officials, a case study in Glendale, Ruben Hovanesian, California State Polytechnic University, Pomona

8B - ITS Applications III (Santa Cruz Room)
Moderator: Eric Shimizu, DKS Associates

ITS Automation to Streamline Development Review, Chun Wong, Los Angeles Department of Transportation
Innovative System Communication Design and Traffic Signal Synchronization Solutions for San Bernardino County, CA, Leo Lee, ADVANTEC Consulting Engineers

Effectiveness of a Dynamic Variable Advisory Speed System on Queue Mitigation in Work Zone, Mitsuru Saito, Brigham Young University

Developing a bus service reliability evaluation framework using archived AVL/APC Data, Wei Feng, Portland State University

8C - Traffic Safety I - (Santa Rosa Room/San Miguel Room)
Moderator: Monica Suter, City of Santa Ana, CA

Enhanced Pedestrian Crossing Treatments in Santa Monica, Sam Morrissey, City of Santa Monica

27 Days of Walk to School Day Events - The Phoenix Experience: Jenny Grote, City of Phoenix

Evaluation of the Effects of Rubbernecking in Adjacent Travel Lanes to An Incident, Javaneh Noorparvar, California State Polytechnic University, Pomona

Wednesday, 10:30 – 12:00 AM  Session 9

9A - Traffic Safety II - (Anacapa Room)
Moderator: Jonathan Hofert, Parsons Brinckerhoff

Road Safety Assessments: Who, What, How, When, Where, and Why, Ruben Hovanesian, California State Polytechnic University, Pomona

"Two-Way" Relationships between Speed Limit and Road Safety, Jung-Han Wang, California State Polytechnic University, Pomona

Do Alcohol and Other Drugs Significantly Affect Traffic Accident Types, Trisha Munoz, California State Polytechnic University, Pomona

Taking a Proactive Approach to Safety in Utah, Grant G. Schultz, Brigham Young University

Calibration of the Highway Safety Manual (HSM) Safety Performance Functions (SPFs) and Development of Independent Models, Grant G. Schultz, Brigham Young University

9B - Freight and Rail - (Santa Cruz Room)
Moderator: Julia Wu, Port of Long Beach

Signal Patterns for Improving Light Rail Operation, Wintana Miller, DKS Associates

Assessment of Point Defiance Bypass for High-Speed Intercity Passenger Rail, Carter Danne, Parametrix, Inc.

Access Line Operation Mode Analysis and Empirical Study in Urban Metro Transit of Beijing, Zhili Liu, Beijing Jiaotong University, Beijing, China

Pedestrians: The Next At-Grade Rail Crossing Frontier, Paul F. Brown, Jacobs Engineering Group

9C — Traffic Signals II - (Santa Rosa Room/San Miguel Room)
Moderator: Don Samdahl, Fehr and Peers

Integration of CTNET to RIITS Network, Kali Fogel, Los Angeles County Metropolitan Transportation

Bicycle Detection Using Caltrans Type D Loops: More Options for Practitioners, John Kerenyi, City of Moreno Valley

Determination of Intersection Control Type Using the HCM, Samuel Kofi Ahiamadi, University of Nevada, Reno

Safety Perspective on Signal Coordination Warrant, Kristoffer Mendoza, California State Polytechnic University, Pomona
Technical Tours

All technical tours meet in the lobby 15 min prior to the scheduled time. Please be prompt.

Bicycle Tour

Sunday, June 24, 2012
Tour duration: 11:00 a.m. to 4:00 p.m.

Bicycle Facilities Planning and Design during this interactive bike ride, several Santa Barbara encouragement, education, and engineering projects related to bicycling will be explored first-hand. Attendees will visit BiciCentro, the Bikestation (c), and a Safe Routes to School facility, monitor signal operations at an intersection with a high demand for bicycle, pedestrian and motor vehicle traffic.

Tour Goals:

1. Identify bicycle network connectivity challenges within UCSB campus
2. Identify potential on-street bikeway projects to improve bicycle connectivity between UCSB and Downtown Santa Barbara
3. Review and assess operations and safety of the off-street network connecting UCSB and Downtown Santa Barbara
4. Identify potential bikeway projects to improve bicycle connectivity in tourist oriented waterfront communities
5. Become familiar and practice basic laws of the road as they relate to bicycling
6. Identify the types of bicycle detection in use on the south coast and their attributes

Wine Tasting Tour, Santa Ynez Valley

Sunday, June 24, 2012 – Tour Duration: 11:00 a.m. to 4:00 p.m.

More than 70 wineries and tasting rooms are situated 45 minutes from downtown Santa Barbara in the Santa Ynez Valley, known for award-winning wines grown in a unique microclimate well suited for growing Chardonnay, Pinot Noir and Syrah grapes. The tour includes transportation, tasting at three wineries and a box lunch.

Multimodal Tour

Monday, June 25, 2012 – Tour Duration: 1:30 p.m. to 5:00 p.m.

A walk, Segway, bike, and bus tour highlighting various pedestrian, bicycle, vehicle, bus and train facilities near the hotel. Local and national experts will field questions on the good and bad points of various roadways, intersections, bikeways, sidewalks, bus stops, train stations.

The walking tour includes experts in ADA access and pedestrian planning and design. Participants will have the opportunity to use wheelchairs and blindfolds to experience firsthand the impacts of ADA improvements in a variety of field scenarios.

Tour Goals:

1. Identify key temporary traffic control requirements for maintenance of ADA access
2. Review Department of Justice rules regarding use of electronic personal assistance mobility devices (EPMADs) on trails and the public way
3. Identify operational and capacity challenges of accommodating EPMADs on trails and the public way
4. Identify key challenges to connecting regional tourists to local destinations without the use of personal vehicles

Continued...
Roundabout Tour
Tuesday, June 26, 2012 –
Tour Duration: 1.30 p.m. to 5:00 p.m.

Very close to the hotel are three roundabouts, two multi-lane entry roundabouts designed and constructed in different Caltrans design guidance periods, and the smaller single lane entry Five Points roundabout. The tour group will leave the hotel by bus.

Tour Goals:

1. Develop a historic understanding of the challenges to gaining approval for roundabouts on California state roadways
2. Review pedestrian and bicycle design challenges at roundabouts and identify potential improvements at each site
3. Identify network operational challenges resulting from installing a roundabout in proximity to congested intersections that are not improved
4. Identify Level of Service and safety benefits of roundabouts
Student Activities

James H. Kell Student Competition

**Sunday, June 24th, 11:30 pm to 4:30 pm**  
*Reagan Room*

The James H. Kell Student Competition is intended to give Student Members attending the annual meeting an opportunity to apply transportation and traffic engineering classroom knowledge to a specific “real-world” problem. This year the student chapter from the University of Nevada, Reno will be designing and administering the competition. Students planning on participating are encouraged to arrive at the meeting by Sunday morning. Contact Danielle Scharf at dscharf@sandersonstewart.com for more information.

Student Traffic Bowl

**Monday, June 25th, 3:00 pm to 5:30 pm**  
*Reagan Room*

The first nine schools that field a team will compete in the Jeopardy-style Student Traffic Bowl Monday afternoon. The winning school’s team will take home a trophy and bragging rights for the next year, and represent the Western District at the International Collegiate Traffic Bowl in St. Louis, Missouri, in August 2011. Team registration is required to participate. For more information contact Danielle Scharf at dscharf@sandersonstewart.com. Everyone is welcome to attend and cheer your favorite team.

Leadership Breakfast

**Tuesday, June 26th, 7:00 am to 8:30 am**  
*Fiesta Room*

ITE Western District Section and Student Chapter officers are invited to breakfast to discuss the rewards, opportunities and challenges of governing the Western District. This event provides an opportunity to hear ideas and approaches to providing good member services and support of professional development for current and future traffic engineers. (Space limited-Leadership Only)

Student Volunteer Opportunities

Students are encouraged to actively participate in the Annual Meeting by volunteering to make this meeting a success. Opportunities include supporting “behind the scenes” logistics and event operations. In doing so, you can network with transportation professionals. For more information, email the Local Arrangements Committee at 2012itesb@gmail.com for more information.
Networking and Social

Get Acquainted Social
Sunday, June 24, 6:00 pm to 8:00 pm
Rotunda (Plaza del Sol)
Attend the kickoff social event sponsored by Clary and Iteris. Please stop by their booths and thank them. Appetizers and beverages will be provided.

State Street Walking Tour
Sunday, June 24th, 7:00 pm to 10:00 pm
Take a stroll in the heart of downtown...State Street.
Touted the most beautiful downtown in America, State St offers stores, dining and people watching. You can find both mom and pop boutiques with adorable one-of-a-kind goods as well as all major retailers like, Gap, Banana Republic and Old Navy.
From high end to low end there are a lot of fantastic food options to choose from. They have delicious small pizza shops and cute little street side cafes. There also a lot of great high end, food lover restaurants. Lots of restaurants enjoy locally grown meats and produce. Enjoy the fun nightlife spots, quaint coffeehouses and pretty floral decoration.

Complimentary Trolley Service provided from 7 pm to 10 pm

Traffic Bowl
Tuesday, June 26th, 3:30 pm to 5:30 pm
Reagan Room
Cost: Included in full registration, $30 per person for additional tickets
Think you know your standards? ITE History? It looks easy shouting out answers from the floor, but try it for yourself up on the podium! The 19th Annual Western Traffic Bowl will be underway on Tuesday afternoon as ITE Sections throughout the Western District attempt to steal the highly coveted Traffic Bowl trophy from the reigning champions from the New Mexico Section. Watch as the teams battle it out not only for the trophy but the bragging rights to call themselves Traffic Bowl Champions for the next year!

Annual Awards Banquet
Tuesday, July 12th, 6:00 pm to 10:00 pm
Plaza del Sol
Cost: Included in full registration, $90 per person for additional tickets
Dress in your swing attire and wear dance shoes with live music by Phat Cat Swinger and dance instructors from the Santa Barbara Dance Center, served up with a wonderful meal and recognition of the Western Districts award winners for a fun, entertaining evening following dinner.

Barbara Zoo was founded in 1963 by a group of community volunteers on the site of an old estate. The 30-acre zoo overlooks the beach and is partially surrounded by a bird refuge. There are over 500 animals in 160 species including elephants, lions, penguins, leopards, gorillas, California condors, and bald eagles.
There is a small train that takes visitors around the zoo that is always fun for the kids. This zoo is truly an amazing place for the family event with a real mix of animals and beautiful spaces. Check it out at www.santabarbarazoo.org.
The future of the transportation profession depends upon a stable and continuing flow of students who are excited and passionate about the career opportunities afforded by transportation engineering and planning. Over the past ten years ITE's Western District has greatly expanded student initiatives with the objective of attracting the best and brightest in the west to the transportation profession. In the past, these programs were modestly funded utilizing annual operating budgets. This has limited the scope of the programs and resulted in the use of operating reserves. In an effort to avoid increasing dues and to assure continuous, stable funding for student initiatives, the Student Endowment Fund was established. The Board projects that the Endowment Fund needs to reach $500,000 to generate sufficient annual revenue to support the District's student initiatives. To date, we are more than halfway to our goal thanks to the generous support of our District's members as well as its Sections and Chapters!

Please visit us at the Student Endowment Fund booth in the Exhibit Hall. We will be on hand to answer any questions you might have about the Fund and we'll be glad to accept contributions. Be sure to get your Endowment Fund tattoo while you are there!

This year we are proud to present two exciting fundraising events for the Student Endowment Fund. On Saturday, June 23rd, teams will compete in the next installment of the MiteY Race. The inaugural race in San Francisco was modeled after the hit television series “The Amazing Race” with teams following clues through the city visiting popular landmarks. This year’s race, themed “Life’s a Beach,” will take teams along the Santa Barbara waterfront following clues and completing challenging but fun tasks.

Then on Sunday, June 24th, try ITE’s own version of Guitar Hero...aptly named “Traffic Hero!” Developed by the ITE Student Chapter at the University of Washington, this game combines video gaming skills with advanced video detection techniques. Test your hand-eye coordination on some of this nation’s busiest freeways for a small contribution to the Student Endowment Fund. Game developers Yegorz Malinovskiy and Runze Yu will be on hand to give pointers to participants!
Western District Board

It is the responsibility of the Board to provide leadership and administrative decisions for the Western District. This work takes many hours and is a volunteer effort. Please take the time to introduce yourself to the members of the Board and thank them for their dedicated service to the organization and the profession.

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P.E., PTOE

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Walter Okitsu
P.E., T.E., PTP, PTOE

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Student Endowment: Cathy Leong, P.E.
Public Relations: Chuck Huffine, P.E., PTOE, AICP
Traffic Bowl: Jerry Hall

District Board Resources:
District Organization Chart
http://westernite.org/aboutus/organization-chart/
District Strategic Plan
http://westernite.org/aboutus/strategic-plan/
Membership Information
http://westernite.org/aboutus/member-profile-and-dues/