President’s Message
Jay Dinkins, PE

Thank you to Rock Miller for the fascinating history of complete streets at last month’s luncheon at Monterey Park. It is always interesting to see the progress, or regress in some cases, as our transportation needs evolve. I look forward to the future of our industry, and I hope we can steer our industry to meet our future society’s demands.

The fourth annual ITE Western District Student Leadership Summit (SLS) was held at Cal State Fullerton. There were 97 students from 17 schools in attendance. The Southern California Section was well-represented with Western District Secretary-Treasurer (and past SoCal Section President) Neelam Dorman speaking during the opening session and International Director Walter Okitsu speaking on Saturday morning. Carlos Ortiz, Rock Miller, and Monica Suter also gave presentations to the students, while Zaki Mustafa and his wonderful wife Loretta cooked a BBQ lunch for everyone. Congratulations to our Cal State Fullerton Chapter leaders at for such a successful summit.

We have many exciting events coming this spring including the Student Traffic Bowl, joint meetings with Central Coast and San Diego Sections, and our Western District Meeting in San Diego. Good news: The deadline to submit abstracts for the Western District Meeting have been extended to February 10th! You can submit your abstracts here: http://www.sandiegoite.org/ite-western-district-annual-meeting-call-for-abstracts/.

We are still in need of two volunteers to be our Social Media Administrators. This is a fun job that allows you creative freedom to post to our Facebook, Twitter, and Instagram accounts as well as our website. You get to post about all the fun activities we do each month with the hopes of boosting our presence in the Southern California transportation world. Feel free to contact any board member for more details.

Thank you Newsletter Sponsors National Data & Surveying Services, South Coast Lighting, and Econolite. A big thank you goes out to our February meeting sponsor, South Coast Lighting. We truly appreciate the support of our sponsors who help offset our meeting costs, so we can continue to bring you great meetings month after month.

Brief Look Ahead

February 2017
- Tues 14th, ITE SoCal Section Monthly Meeting with ITE Central Coast Section, City of Thousand Oaks
- Sat 25th, 2017 ITE SoCal Student Chapter Traffic Bowl, USC University Park Campus, LA 90007

March 2017
- Wed 31st, ASCE California Infrastructure Symposium, California Science Center, www.cais17.org

June 2017

July-August 2017
- Sun 30th – Wed August 2nd, ITE Annual Meeting & Exhibit, Sheraton Centre, Toronto, Canada, www.ite.org

ITE Southern California Section www.socalite.org
2016-2017 Southern California Section Officers

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**Social Media Administrator Chairs**
Co-Social Media Administrator  
Volunteer Needed

Co-Social Media Administrator  
Volunteer Needed
The Transportation Committee of the California Region (Region 9) of the American Society of Civil Engineers (ASCE) (www.asce.org) collaborated with agencies and consultants statewide to identify the following 10 hot topics:

1. **Autonomous Vehicles**: These vehicles are able to perceive their surroundings and navigate without human aid.

2. **Connected Vehicles**: This refers to the Intelligent Transportation System (ITS) infrastructure enabling vehicle-to-vehicle communication.

3. **Driverless Vehicles**: Former US Transportation Secretary Anthony Foxx and Google CEO Eric Schmidt drove in such a vehicle between the San Jose International Airport (SJC) and Google Corporate Headquarters for a Town Hall Meeting on Transportation in 2014. Lauren Isaac of WSP/Parsons Brinckerhoff will be presenting on this topic at the Symposium.

4. **Marketing the Transportation Profession**: The “Dream Big” IMAX movie will be shown at the Symposium to promote the Civil Engineering profession. Look for those elements that are specific to Transportation Engineering.

5. **Public Outreach**: As Radio Show Commentator David Ross explained at a Women’s Transportation Seminar (WTS) Gala in Seattle in 2003, “you transportation professionals design the systems that my listeners complain about” underscoring the importance of clearly communicating to the public the challenging tradeoffs we face in our daily decision making.

6. **Connected Mass Transit Corridors**: Providing near-term conventional rail improvements to transport passengers to the Initial Operating Section (IOS) (Central Valley to Silicon Valley) of the High-Speed Rail Project (www.hsr.ca.gov) are essential for generating the ridership revenue necessary to construct High-Speed Rail over the Tehachapi Mountains into the Los Angeles Basin. Metrolink CEO Art Leahy will discuss the latest efforts on Southern California’s premier commuter rail system to get the region ready to connect to High-Speed Rail (www.hsr.ca.gov).

7. **Rail/Airport Integration**: Bringing rail to airports allows airline passengers to access city centers without having to fight traffic congestion. Jacob Adams of the Los Angeles World Airports will provide an update on the latest efforts to run Metro Light Rail to Los Angeles International Airport (LAX).

8. **Fixing Our Roads**: Greater Sacramento Area Economic Council (https://www.selectsacramento.com) CEO Barry Broome explained at a Fix Our Roads Rally in Sacramento on January 18, that deteriorating roadways communicates to prospective out of town companies that “we can’t even take care of our most basic infrastructure”, making marketing and economic stimulation efforts especially challenging.

9. **Goods Movement**: As California High Speed Rail Authority (www.hsr.ca.gov) Board Chairman Dan Richard explained at the US High Speed Rail (www.ushsr.com) Conference in San Francisco in May 2012, advances in the Panama Canal continue to put California Ports at a competitive disadvantage primarily due to inland traffic congestion. The Symposium will feature an entire session on Southern California Ports.

10. **Transportation Funding**: Transportation Committee Chair and Assembly Member Jim Frazier will discuss the latest efforts to get the Legislature to pass a long-term Transportation Funding Package. Los Angeles County Metro CEO Phil Washington and Former Los Angeles City Mayor Antonio Villaraigosa will discuss the success of the recent Los Angeles County Half-Cent Sales Tax Measure at the Symposium.

For more information on the Statewide Infrastructure Symposium taking place on **March 31, 2017** at the California Science Center in Los Angeles, go to www.cais17.org.
On Wednesday January 18, 2017 ITE SoCal kicked off the New Year with a joint meeting with City Traffic Engineers. The luncheon took place at Monterey Hill Restaurant where Rock Miller, a representative from Stantec and previous president of ITE SoCal, presented “History of Complete Streets: 1870 to Today.”

In his presentation, Mr. Miller discussed the history of Los Angeles streets and transportation — from dirt roads for horses to the intricately woven highway system for cars of the present. Mr. Miller also highlighted obstacles that surfaced during the transition to automobiles and some of the measures that were implemented for their accommodation. He also discussed infrastructure specific to bicycles including the cycling path in Santa Monica and the proposed California Cycleway between Pasadena and Los Angeles in the late 1800’s. The California Cycleway was never completed. Instead, roads were widened to accommodate cars. Mr. Miller discussed the emergence of traffic engineering, specifically in terms of how traffic regulations addressed the issues of integrating automobiles into the right of way network that initially accommodated horses and pedestrians. Specifically, there was a sharp increase in collisions with pedestrians during the initial years of the Motor Age. Studies back then indicated that crosswalks were unsafe. Consequently, thousands of crosswalks were removed and pedestrians were advised not to use them. Measures were not implemented for improving the safety of bicycles and pedestrians until recently.

For further reading, Mr. Miller recommends “Roads Were not Built for Cars” by Carlton Reld and “Fighting Traffic: The Dawn of Motor Age in the American City” by Peter Norton. An additional thank you to Iteris for sponsoring the luncheon.

The Southern California Section of the Institute of Transportation Engineers (ITE SoCal) is currently seeking sponsors for 2016-2017! The Section Board encourages taking advantage of this opportunity to help maintain Southern California ITE as a strong and vibrant organization with meaningful events that offer informative presentations and valuable connection opportunities with top-notch professionals in our industry.

The table of present and available sponsorship opportunities can be found on Page 9. Thank you for your continued support of Southern California ITE! Please contact Jonathan Hofert at HofertJ@metro.net or Meghavardhan Govindu at mgovindu@gundacorp.com for more information.
Cyber Security: February 10 – March 15, 2017 (0.6 CEUs)

The material is intended for professionals working with surface transportation systems. Improve your understanding of cybersecurity threats, and learn about tools to protect your systems. Instructor: Ed Fok, FHWA Resource Center. For more information: http://www.citeconsortium.org/course/cyber-security-2/

Telecommunications and Networking Fundamentals: February 17 – March 22, 2017 (0.6 CEUs)

This is a primer on telecommunications for the ITS professional with little or no formal training in telecommunications. With so many ITS projects now requiring a telecommunications aspect, and because the technology, marketplace, and regulatory structure of telecommunications are in a continuous state of transition, this course is a must for project managers. Instructor: Paul R Olson, P.E., PTOE. For more information: http://www.citeconsortium.org/course/telecommunications-and-networking-fundamentals-formerly-introduction-to-telecommunication-technology-blended/

Connected Vehicles 101: March 24 – April 25, 2017 (0.6 CEUs)

This introductory course targets transportation planners, managers, and engineers at state and local agencies. You will learn about the safety, mobility and environmental applications envisioned for the connected vehicle environment. You will gain an overview of the infrastructure requirements being developed, including communication standards, and operations and maintenance implications, and upcoming policy decisions. Lastly, you will learn about the activities currently being supported by USDOT. Instructor: Mike McGurrin, McGurrin Consulting. For more information: http://www.citeconsortium.org/course/connected-vehicles-101-blended/

USDOT Webinar: Connected/Autonomous Vehicles on a Mixed-Traffic Highway - Speed Harmonization, Capacity Analysis, and Lane Management: February 8, 2017

The US DOT ITS-JPO Professional Capacity Building Program (PCB) invites you to an upcoming Talking Technology and Transportation (T3e) Webinar. Time: 1:00 PM - 2:00 PM ET (10-11am Pacific) Cost: All T3 and T3e webinars are free of charge https://www.pcb.its.dot.gov/t3/s170208_Connected_Autonomous_Vehicles_on_Mixed_Traffic_Highway.asp

All course materials are on-line but students have access to course instructors through pre-scheduled conference calls. Cost is $250 each; but FREE for U.S. local, state, regional, metropolitan, and Federal government agencies! - use sponsor code PCB in the payment section when you register at http://www.citeconsortium.org/registration.

For more information, contact Denise Twisdale (mztwiz@umd.edu) or Kathy Frankle (kfrankle@umd.edu).

Volunteer Opportunities with EnCorps

The EnCorps (www.encorps.org), STEM (Science, Technology, Engineering, Mathematics) Teachers Program is a California-based nonprofit that runs the EnCorps STEM Teaching Fellowship. Under this program, STEM professionals are given the opportunity to volunteer as tutors and guest teachers in their local community, and some Fellows decide to pursue an "encore" career as a science or math teacher in a high need school. No matter what their level of involvement, when EnCorps Fellows volunteer their time to work with under-resourced students, they find that students increase their knowledge and skills in STEM and learn to become problem solvers, innovators and collaborators. EnCorps also finds that participants grow personally and professionally by engaging in impactful and gratifying work.

EnCorps is looking for STEM professionals who would like to volunteer. For more information, or to sign up to volunteer, please contact the Greater Los Angeles Program & Recruitment Director Bethany Orozco at Bethany@encorps.org or 877-619-3482 ext. 106.
Assembly Member Jim Frazier and Senator Jim Beall presided over a Transportation Funding Hearing at the Capitol on January 24. Other participating Legislators included Senator Anthony Canella, Senator Ben Allen, Senator Scott Weiner, Senator Richard Roth, and Assembly Member Toni Atkins, among others. Panelists included Jessica Peters of the Legislative Analysts’ Office (LAO), Director Malcolm Dougherty of Caltrans, Interim Director Mark Watts of Transportation California, and Josh Shaw of the California Transit Association, among others. There were additional panelists representing the League of California Cities and the California State Association of Counties (CSAC). Here are 10 themes that came out of the Hearing that was focused on getting the Legislature to pass a Long-Term Transportation Funding Package (AB1, SB1) in 2017:

1. **Groundhog Day:** Some frustrated Legislators likened the situation to “Groundhog Day” with the same conversations about deteriorating transportation infrastructure and a lack of concrete action on funding solutions. In addition to funding, another significant constraint on moving transportation projects forward is right-of-way acquisition. There is also a need for effective public relations campaigns at the state level such as those at the county level on half-cent sales tax measures.

2. **State Highway System Management Plan:** Caltrans expects to release this report in a couple of weeks to educate the public on the “bleakness” of the funding situation. With the recent winter storms, Caltrans has barely enough funding to even do the basics.

3. **Vehicle Miles Traveled (VMT) Tax:** While the final report on the pilot program is coming out by year-end, it is not an immediate solution.

4. **Federal Funds:** Failure on the part of the state to step up holds up federal funds.

5. **Pavement Condition Index (PCI) "Tipping Point":** PCI is scaled from 0 to 100. Overall PCI is at the “tipping point” of 66, below which roadway degradation escalates.

6. **The 24 Self-Help Counties:** While these counties with active half-cent sales tax measures represent 88% of the state’s population, non-self-help counties need just as much help if not more. These predominantly rural counties are typically characterized by widespread poverty and significantly higher per capita transportation needs. In Nevada County, 85% of the local roadways have inadequate shoulders to accommodate bicycles and motorists passing service and delivery vehicles.

7. **Unmet Transit Needs:** These are substantial. The Bay Area Rapid Transit (BART) vehicles date back to the 1960’s. They are showing wear and tear. Make transit attractive and reliable, and it will be used.

8. **Roadway Aesthetics:** The issue of homelessness within transportation rights-of-way needs to be addressed as littered rights-of-way pose severe barriers for encouraging companies to move to California.

9. **Homes and Jobs Disconnect:** This disconnect is growing as escalating housing prices force workers to live further away from their jobs. Yet the recent passage of half-cent sales tax measures in both Stanislaus and Merced Counties (both having widespread poverty) underscores the value these residents place on long-distance trains getting them to abundant and high-paying job opportunities in the Silicon Valley.

10. **The American Recovery and Reinvestment Act (ARRA):** This was the last major round of capital funding. According to a close-out report by Former Vice-President Joe Biden to Former President Obama, High-Speed Rail reduced Fresno’s unemployment rate from 18% (2011) to 9% (2016). Maintenance should not be neglected. $1 for preventive maintenance now saves $8 in repairs later.

To track the progress on the Legislature’s efforts to pass a Long-Term Transportation Funding Package during the 2017 Legislative Session, go to [http://leginfo.legislature.ca.gov/](http://leginfo.legislature.ca.gov/) and do a search on AB1 and SB1.
Caltrans has been involved in the development, testing, demonstration, and deployment of connected and automated vehicles for more than 25 years. Through its research partnership with the University of California, Caltrans has funded and overseen research on all modes of vehicles, including light-duty passenger cars, transit buses, commercial trucks, and agency maintenance vehicles. The primary goals of this research are to significantly improve safety and mobility, while reducing the environmental impact of transportation.

Here are some of the key projects that Caltrans has been working on over the past 25 years in the area of connected/automated vehicles:

- **1991** – Longitudinal control of passenger cars (throttle and brakes)
- **1992** – Lateral control of passenger cars (steering)
- **1994-1998** – Participation in the National Automated Highway System Consortium
  - **1997** – Proof of Technical Concept Demonstration (platooning) on I-15 in San Diego
- **1999-2003** – Participated in the Intelligent Vehicle Initiative sponsored by USDOT
  - **2000** – Snow Plow Driver Lane Keeping Assistance
  - **2002** – Automated Snow Blower
  - **2003** – Cooperative Intersection Collision Avoidance Systems
- **2003** – National Bus Automation Workshop and Demonstration on I-15 in San Diego
- **2003** – Commercial Truck Automation Testing at Crow’s Landing Naval Air Station
- **2009** – Commercial Truck Automation Field Testing on Nevada State Route 722

Caltrans is currently collaborating with federal authorities on the following projects:

- USDOT Connected Vehicle Program (2004 to present) – focuses on the use of wireless communications to inform, alert, and/or warn drivers of hazardous situations in time for them to avoid crashes
  - California Connected Vehicle Test Bed Upgrade on El Camino Real, near Palo Alto
  - Under sponsorship by FHWA, upgraded eleven signalized intersections with latest standards-compliant DSRC radios along with associated hardware and software
  - Steering automation of a Bus Rapid Transit route in Eugene, OR, travelling on narrow right-of-way that is both bus-only and mixed-use
  - Steering automation of AC Transit Bus approaching and traversing the narrow San Mateo Bridge Toll Plaza
- **Commercial Truck Platooning** under FHWA’s EAR Program (2014 to present)
  - Caltrans (lead), PATH, LA Metro, and Gateway Cities Council of Governments partnering with Volvo Trucks
  - Development and testing of truck close-following on I-80 in Yolo County and I-580 in Alameda County, starting in Spring 2016
  - Demonstration for public officials in late 2016/early 2017 on I-110 coming out of the Ports of LA/Long Beach
- **Cooperative Adaptive Cruise Control (CACC)** research under FHWA’s EAR Program
  - Continued development and testing of passenger car CACC on freeways to explore capacity increases made possible by vehicle close-following

Moving forward, here are three key areas that Caltrans plans to focus on in the area of connected/automated vehicle research:

- **Continue participation in the USDOT Connected Vehicle Program**
  - Use the California Connected Vehicle Test Bed to test safety and mobility applications in a real-world setting, with local public and private partners
- **Pursue related federal grant opportunities** that build on the existing vehicle automation research foundation, with particular emphasis on heavy vehicles (buses and trucks)
- **Explore non-technical impediments** to adoption of automated vehicles
  - Regulations
  - User Acceptance
  - Insurance

For more information on this and related topics, please visit Caltrans Division of Traffic Operations website at [http://www.dot.ca.gov/trafficops/](http://www.dot.ca.gov/trafficops/)
As a follow-up to the articles on Transportation Hot Topics and the research that Caltrans is doing in the areas of Connected, Automated, and Autonomous Vehicles, the Caltrans Office of Traffic Operations research is providing definitions on these three topics:

- **Connected Vehicles:** Connected vehicles use vehicle-to-vehicle and vehicle-to-infrastructure communications to enable applications that improve the safety and mobility of vehicle travel while reducing adverse environmental impacts. The best examples of these communications technologies are Dedicated Short Range Communications (DSRC), and the existing cellular telephone network. Using a combination of either or both of these technologies, data related to road and traffic conditions can be collected from vehicles as they travel through the transportation system, processed into useful information, and used by operating agencies to more efficiently manage the system and to inform drivers so that they can make better decisions pertaining to their safety and mobility. Drivers are still always in responsible control of the safe operation of their vehicle, but receive enhanced information, alerts, and if necessary, warnings to improve their safety and mobility.

- **Automated Vehicles:** Automated vehicles use sensors, computers, and actuators to control the steering and speed (throttle and brakes) of the vehicle in a manner that ensures a combination of both safety and mobility. Such vehicles may also be connected (see above) or autonomous (see below). The concept of vehicle automation builds upon emerging driver assistance systems (e.g., Lane Keeping Assist, Cooperative Adaptive Cruise Control, and Automated Emergency Braking Systems), which help drivers perform their driving task better, and envisions a time when machines will be primarily responsible for safely controlling the vehicle operation, perhaps with still some level of driver “attention” under well-defined conditions.

  - **Autonomous Vehicles:** These are automated vehicles that are self-contained, meaning that they gather all the knowledge of the environment around them from their own sensors, and are not dependent upon receiving data from other vehicles or the infrastructure. Many use a prior knowledge of roadway engineering, such as standard lane widths and markings, to enhance their performance. Performance may be degraded if their sensors are occluded from “seeing” objects around them by other nearby vehicles, darkness, bad weather, or fixed objects such as buildings or foliage.

For more information on the Caltrans Division of Traffic Operations, go to [http://www.dot.ca.gov/trafficops/](http://www.dot.ca.gov/trafficops/)

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**2017 Regional & National ITE Events**

Save the Dates!
<table>
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<tr>
<th>Month</th>
<th>Newsletter Sponsor</th>
<th>Lunch Sponsor</th>
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<tr>
<td>August 2016</td>
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<td>Annual Steak Fry Event</td>
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<td>Monthly Luncheon</td>
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<td>October 2016</td>
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<td>Joint ITE-SoCal/OCTEC Meeting</td>
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<td>Joint ITE-SoCal/RSBITE Meeting</td>
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<td>December 2016</td>
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<td>Holiday Mixer (ITE-SoCal/RSBITE/OCTEC)</td>
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<td>Joint ITE-SoCal/CTE Meeting</td>
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<td>Joint ITE-SoCal/Central Coast Meeting</td>
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<td>Monthly Luncheon</td>
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<td>May 2017</td>
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<td>Student Chapter Night (ITE-SoCal/OCTEC)</td>
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<td>June 2017</td>
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<td>Mini-Workshop/Annual Business &amp; Joint Meeting (ITE-SoCal/ITS-SoCal)</td>
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# 2016-2017 Calendar

**Institute of Transportation Engineers**  
**Southern California Section**

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<th><strong>August 2016</strong></th>
<th><strong>September</strong></th>
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| ITE Annual Steak Fry  
*Wed. Aug 24, 2016*  
Dinner – 5:30pm  
Monterey Hill Restaurant, Monterey Park | Regular ITE Meeting  
*Revised Thurs. Sept 29, 2016*  
Lunch – 11:30am  
Caltrans District 7, Los Angeles | Joint Meeting with OCTEC  
*Thurs. Oct 27, 2016*  
Lunch – 11:30am  
Orange County Mining Co., Orange |

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<tr>
<th><strong>November</strong></th>
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| Joint Meeting with Riverside-San Bernardino Section  
*Wed. Nov 16, 2016*  
Lunch – 11:30am  
The Restaurant at Kellogg Ranch, Cal Poly Pomona | Holiday Mixer with RSB ITE & OCTEC  
*Wed. Dec 7, 2016*  
Appetizers – 5:30pm  
Los Coyotes Country Club, Buena Park |

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<th><strong>January 2017</strong></th>
<th><strong>February</strong></th>
<th><strong>March</strong></th>
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| Joint Meeting with City Traffic Engineers  
*Wed. Jan 18, 2017*  
Lunch – 11:30am  
Monterey Hill Restaurant, Monterey Park | Joint Meeting with Central Coast Section  
*Revised Tues. Feb 14, 2017*  
Lunch – 11:30am  
City of Thousand Oaks Municipal Service Center | Joint Meeting with San Diego Section  
*Fri. March 10, 2017*  
10:00a – 2:00p Workshop, 12:00p Lunch  
El Adobe Restaurant, San Juan Capistrano |

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<th><strong>April</strong></th>
<th><strong>May</strong></th>
<th><strong>June</strong></th>
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| Regular ITE Meeting  
*Wed. April 12, 2017*  
Lunch – 11:30am  
Monterey Hill Restaurant, Monterey Park | Student Chapter Night  
Co-sponsored by OCTEC  
*Wed. May 17, 2017*  
5:30p Student Job Fair, 6:30p Dinner  
Knott’s Berry Farm Resort Hotel, Buena Park | Mini-Workshop/Annual Business & Joint Meeting with ITS SoCal  
*Revised Wed. June 14, 2017*  
8:30a – 12:00p Workshop, 12:00p Lunch, 1:00p Business  
Monterey Hill Restaurant, Monterey Park |

*Note: Some information is subject to change.*
Our Joint February Lunch Meeting
at
City of Thousand Oaks
Municipal Service Center
1993 Rancho Conejo Boulevard
Thousand Oaks, CA 91320

Tuesday 2.14.2017
11:30 AM

“Using Big Data for Performance Measurement and Congestion Monitoring for Local Agencies”

Kavin Mehta
Iteris

Early Registration ends on 2.7.17

Please register online at
https://socal-central_coast_section_meeting_2017.eventbrite.com

For questions, please contact:

Joshua McNeill, P.E., T.E.
Secretary
ITE Southern California Section
jmcneill@mbakerintl.com

Early Registration $20 | Registration $25 | Students $15

Thank you to South Coast Lighting for sponsoring our meeting!
2017 Student Chapter Traffic Bowl
ITE Southern California Section

Hosted at USC · Saturday, February 25, 2017

Event Details

- Feb. 25, 2017 · 10:30am
- USC · University Park Campus, Los Angeles, CA 90007.
- Room location TBA.
- Lunch & refreshments to be provided.

- NO REGISTRATION COST. FAMILIES AND STUDENTS WELCOME! -
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