

INSTITUTE OF TRANSPORTATION ENGINEERS SOUTHERN CALIFORNIA SECTION NEWSLETTER

2018 – 2019, Issue No. 4

President's Message

Josh McNeill, PE, TE



Dear ITE Southern California Members,

Happy New Year ITE SoCal Members! I hope you all had a festive holiday season surrounded by friends and family. Our section board is looking forward to the New Year ahead, and all of the exciting events we are bringing you.

We ended 2018 on a good note. Our November joint meeting with RSBITE was well attended at the Kellogg Ranch in Pomona. **Rock Miller** presented on *Safety, Liability, and the MUTCD in the*

January 2019

Upcoming ITE-SoCal Events

Joint Meeting with City Traffic Engineers

Wednesday, January 16, 11:30 AM to 1:00 PM

Monterey Hill Restaurant 3700 W Ramona Blvd Monterey Park, CA 91754

https://2019 itesocal cte meeti ng.eventbrite.com

Changing World. As per usual his presentation was engaging and provided valuable insight into our ever evolving standards. We followed up that meeting with our 6th annual Holiday Mixer. The event was a successful collaboration with RSBITE and OCTEC. It was held at the Knott's Berry Farm Hotel, and was conveniently located down the hall from ITS California's workshop that occurred earlier in the day. A big thank you to our sponsors for this event: ITS-California, Iteris, Econolite, Advantec, Counts Unlimited, Kimley-Horn, DKS, DDL Traffic, EtherWAN, IGC, MaxCell, NDS, South Coast Lighting, Traffic Cast and Western Systems. We also had a lot of great raffle prizes donated by AGA, Kittelson and Associates, KOA, NDS, RodefX, Next Tech Systems, and Counts Unlimited. If you attended the event, you may find some photos of yourself in this newsletter or in the video that EtherWAN helped us put together. Check it out here: https://youtu.be/-Ds80jWPNXk.

In case you missed it, the 2019 ITE Western District Annual Meeting Call for Abstracts deadline was extended to January 25th 2019. For more information, please visit their website at https://www.westernite.org/annualmeeting/. Now's your chance to finish that paper on your latest research or case study that you were not able to wrap up before the holidays!

Our next meeting will be on Wednesday, January 16th at the Monterey Hill Restaurant in Monterey Park. Jay Kim, Assistant General Manager – Mobility Management, will be presenting on Urban Mobility in a Digital Age. Thank you to our meeting sponsor **Econolite**, and our newsletter sponsors **Trafficware**, **Counts Unlimited**, and **Albert Grover and Associates**.

Brief Look Ahead

March 2019

- Fri 29th, ASCE California Infrastructure Symposium, San Diego Convention Center <u>www.caisregion9.org</u>

April 2019

Tues 30th, West Coast Rail Conference, LA Metro Headquarters <u>www.ushsr.com</u>

June 2019

22-26th, ITE Western District Annual Conference, Hyatt Regency in Monterey, <u>www.westernite.org</u>

July 2019

21-24th, ITE International Meeting & Exhibit, Austin, Texas, <u>www.ite.org</u>

ITE Southern California Section

<u>www.socalite.org</u>

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Two Ambitious Milestones Ahead for the California High-Speed Rail Project *David M. Schwegel, PE (Precision Civil Engineering)*



HSR in Burbank (Photo Credit: California High-Speed Rail Authority)

Milestone No. 1: Complete Central Valley Section by 2022

Assembly Member Jim Patterson (R-Fresno) requested an Audit of the Project from the State Auditor's Office. State Auditor Elaine Howle and Staff completed and submitted the Audit Report to the State Legislature on November 15th. A Legislative Hearing took place on 29th where Legislators November interviewed representatives of the Auditor's Office along with Acting High-Speed Rail Authority CEO Joe Hedges and Authority Board Vice Chair Tom Richards. The purpose of this Hearing was to determine how to double the pace of construction to complete the Central Valley segment between Madera and Bakersfield by 2022 to avoid having to pay the Federal Government back \$3.5 billion as recommended in the Auditor's Report. The Authority agreed to implement several measures by May 2019 including determining which administrative functions should be performed by contractors versus state employees, developing and implementing a system for gauging the performance of consultants, and evaluating the design-builder's performance on all three projects against pre-established baselines through 2022. The three design-build projects are Madera to Fresno (Construction Package No. 1), Fresno to the Kern County Line (Construction Package No. 2-3), and the Kern County Line to North of Bakersfield (Construction Package No. 4).

For the Auditor's Report, go to: https://www.bsa.ca.gov/pdfs/reports/2018-108.pdf

For the Hearing, go to: https://www.assembly.ca.gov/media/joint-hearingassembly-transportation-joint-legislative-audit-20181129/video

Milestone No. 2: Reach the Los Angeles Basin by 2028

Tokyo hosts the Summer Olympics in 2020 followed by Paris in 2024. Both destinations are major High-Speed Rail hubs. While Los Angeles is receiving accolades for ambitious efforts to complete 28 transit projects in time for the 2028 Summer Olympics, the Authority's 2018 Business Plan suggests that High-Speed Rail may not reach the Los Angeles Basin until 2033. Many industrialized nations would like to see the United States more proactively address climate change, with the implementation of true High-Speed Rail revenue service to the Olympics as a key indicator. This will be the first time in 26 years that the US has hosted an Olympic event. Such worldwide exhibitions bring significant mobility challenges that can be addressed through the implementation of High-Speed Rail, mass transit and other measures. There are opportunities for the Authority to collaborate with other agencies in the implementation of a vision for a High-Speed Rail network in the Pacific Southwest. These include Amtrak to San Diego, Altamont Corridor Express to Sacramento, Arizona DOT to Phoenix, and Brightline/Virgin to Las Vegas.

For information on the California High-Speed Rail Project including videos of prior Board Meetings, go to <u>www.hsr.ca.gov</u>.

For information on the April 30 to May 2 West Coast Rail Conference in Los Angeles, go to http://www.ushsr.com/events/losangeles2019.html.



HSR in Central Valley (Photo Credit: California High-Speed Rail Authority)

ITE Southern California 2018 - November Luncheon Meeting Jonathan Delgado (ADVANTEC)

The Joint November Luncheon Meeting with the Riverside-San Bernardino ITE Section was held on Wednesday, November 14, 2018, at The Restaurant at Kellogg Ranch at Cal Poly Pomona. The meeting had a presentation given by Rock Miller of Rock E. Miller & Associates.

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Before the main presentation began, а few announcements were made at the meeting. The 2019 RSBITE Vendor Show was announced, which is the annual vendor show and January meeting for the RSBITE section. It will be held at the DoubleTree Ontario Airport on Thursday, January 17, 2019, where vendors will be displaying their new products and technologies. There are multiple opportunities for both agencies and companies to sponsor the show. The Western ITE District Meeting was also announced which will be taking place from June 23-26, 2019, in Monterey, California. This Annual Meeting will have a full technical program concentrating on "Harboring the Future of Transportation", a Vendor Hall where the latest in transportation and traffic technology will be displayed, and a Family Night at the Monterey Bay Aguarium (exclusively for Western ITE that night). Registration is now open. Finally, as a lunch sponsor, ADVANTEC gave five-minute presentation celebrating its 20th а Anniversary and the new and exciting projects it will be working on in the near future.



Rock Miller – Luncheon Speaker (Photo Credit: Caylynn Godoy)

After the announcements and presentation, Rock Miller gave his presentation called "Safety Liability and the MUTCD in a Changing World". Rock Miller is a former international ITE President (2012) and has worked on and desianed traffic engineering and active transportation projects for more than 40 years. One of his first projects that addressed bicycle safety and traffic engineering began with cycle tracks, blocks, signals, and green painted bicycle lanes in Long Beach. This project later expanded into Los Angeles. However, bicyclist safety did not greatly improve, and he realized that he needed to bring more attention to cycle tracks, a concept that was relatively new in Southern California at the time. Rock then spoke about the National Committee on Uniform Traffic Control Devices (NCUTCD) and how it has eight voting positions from ITE where members can vote on new safety designs and methods; however, positions are very competitive and difficult to obtain. Rock met with the League of American Bicyclists that has one voting position on the NCUTCD Board and decided to join the organization to contribute his concerns and ideas for the Manual on Uniform Traffic Control Devices (MUTCD). He then worked with both organizations to make changes to the MUTCD that are still used in many designs and projects today.

Rock then spoke about the challenges with autonomous vehicles, and how these will need to be addressed in the near future. One big challenge is "Split Lanes" where autonomous vehicles have a very difficult time detecting motorcycles that ride in-between lanes and vehicles in order to bypass slow or congested traffic. Vehicles that start a sudden, autonomous lane change could have deadly consequences for both the motorcyclist and the vehicle. A fatal autonomous vehicle crash that occurred recently involved a pedestrian walking their bicycle across the street where the vehicle could not accurately detect the person and the object in the road. The autonomous vehicle did not stop and collided with the pedestrian, killing them in the collision. A future problem that will occur is where liability comes into play with these collisions. It is currently covered mostly through state laws, though there is little to no involvement from the federal government. Liability can also be found in the software developers of these autonomous vehicles, and it is not likely that it will be placed anywhere else soon. The U.S. Transportation Secretary, Elaine Chao, wants to make future updates to the MUTCD that will address the rise in autonomous vehicles on the road, as well as maintenance and liability.

The joint luncheon meeting with the RSBITE Section was a great success where members of RSBITE and SoCal ITE were able to discuss new technology and projects coming up in Southern California, as well as enjoy the excellent food and restaurant service provided by Cal Poly Pomona. The next meeting will be a joint meeting held with City Traffic Engineers at the Monterey Hill Restaurant in Monterey Park on Wednesday, January 16, 2019.

> **STEM Activities** Josh McNeill, PE, TE (Iteris)

ITE SoCal member Ruben Hovanesian held an outreach event at the East Los Angeles Renaissance Academy, which is one of the five specialized academies at the Estaban Torres High School. The Academy is specialized with a focus in urban planning and design. Specifically, we went to five math classes where the students were learning algebra, geometry, or calculus. Overall, during the six-hour day (75min long classes) we interacted with over 160 students. Each class involved a presentation that covered the topics of Civil Engineering in general, Transportation Engineering and the movement of people and goods (with tie-ins to the physics and math formulas they were currently learning about to make it relevant, to the pleasure of the teachers), college life, and dispelling some myths and false stereotypes regarding the field. There was also two group activities performed with the students, focusing on team work, collaboration, communication, transit planning, and compromise. The first activity involved each student drawing a simple shape/image on graph paper, then writing instructions for someone else to replicate what they drew, followed by switching of instructions and seeing how well their fellow classmates could follow their directions. After completing this activity (and the realization that hearts are pretty hard to write instructions for) we discussed what's necessary for clear communication, especially as it relates to plan preparation (i.e. common jargon, coordinate system, uniform orientation, clarity and brevity vs depth of instructions, etc.)

The second activity involved groups of students receiving a short length of string to represent their transit route. Their task was to attempt to connect as many of themselves (each student representing a station) while maintaining a good separation (geographic coverage). Points were given based on how connected their network was, and students quickly realized there was a compromise between how connected a transit network is vs coverage area, as well as some of the concepts of transit routing (i.e. spoke/hub vs point-to-point).

Ruben's team of ITE STEM initiative leaders used activities and ideas that have been developed over a few years of being involved in similar events. We hope to include more ITE members in these events in the future, and have an even stronger STEM presence next year.

STEM Science Technology Engineering & Math

Interesting Ped Heads in Germany Ray Lau, PE (LA DOT)

Located just north of Frankfurt, Friedberg was the former home of Elvis when he was stationed at Ray Barracks during his stint in the US Army. The place has become something of an Elvis Mecca, even going so far as naming an entire town square after the famous crooner. Maybe their MUTCD is a little more flexible with their traffic control devices?



Pedestrian Signal Head in Friedberg, Germany (Photo Credit: <u>https://www.thethings.com/german-town-elvis-cross-lights/</u>)

ITE Establishes new "Mobility as a Service" Initiative Institute of Transportation Engineers

At its October meeting the ITE International Board of Direction (IBOD) established a new Institute Initiative. Following a presentation and discussion of emerging issues led by ITE Coordinating Council Chair Russell Brownlee and Vice Chair Eric Rensel, the IBOD advanced a Mobility as a Service (MaaS) initiative to complement the existing Institute Initiatives on *Vision Zero, Smart Communities, Connected and Automated Vehicles, and Transportation and Health*.

This new MaaS initiative will bring increased attention from ITE's technical councils and committees with regard to the opportunities and challenges created by the wide-range of transportation options now available, particularly in metropolitan areas. The proliferation of ride-hailing, bike sharing, and most recently, electric scooters have expanded the availability of transportation choices and are addressing some of the first-mile and last-mile issues with traditional transit. They have the potential to impact housing and car ownership decisions and can provide new travel options for the young, the old, and the disabled.

These new mobility options are also creating new challenges for cities. Demand for curbspace has increased, safety concerns with regard to pick-ups and drop-offs are growing along with scooter injuries, and sidewalk congestion and accessibility concerns are on the rise as demands for bike and scooter storage increase. Early studies of ride-hailing services have suggested that they may increase congestion.

As a community of transportation professionals, the IBOD felt it was critical for ITE to increase its efforts to enhance the awareness and knowledge of its members on MaaS issues and to begin to develop new products and solutions. Planning for, designing, and operating the transportation network to integrate MaaS services and maximize its benefits will be essential.

Incoming ITE President Bruce Belmore will be establishing a new MaaS Steering Committee with representation from a diverse set of industry representatives to identify an action agenda for this new Institute Initiative. **Individuals or organizations interested in being part of this effort should contact Jeff Lindley, ITE Chief Technical Officer, at <u>jlindley@ite.org</u>.**

An early ITE product in this space was the recently released, Curbside Management Practitioners Guide, developed by the Complete Streets Council, which provides guidance on emerging practices for curbspace allocation policy and implementation, based primarily on the outcomes of tested strategies. It provides a framework and toolbox for analyzing and optimizing curbspace in this time of change. It is available as a free download at <u>https://bit.ly/2EdlF4v</u>

ITE Releases Updated Position Statement on Connected and Automated Vehicles Institute of Transportation Engineers

With the rapid development of Connected and Automated Vehicles (CAV) and the October release of the **U.S. Department of Transportation's (USDOT) Preparing for the Future of Transportation: Automated Vehicles 3.0 (AV 3.0)**, the Institute of Transportation Engineers (ITE) has updated its position statement on CAV released earlier this year. **ITE** supports the advancement of CAV and believes a strong government role is critical to ensure that CAV deployment improves the quality of life for all citizens. ITE applauds USDOT's efforts to broaden and evolve its guidance in AV 3.0, and the inclusion of a new section covering Cooperative Automation and Connectivity. ITE was pleased to see increased attention to the important role that infrastructure owners and operators will play in advancing CAV implementation and facilitating CAV adoption.

In its updated position statement, ITE highlights the *need for increased and structured collaboration among the many public and private sector stakeholders involved in the development, testing, and deployment of these new technologies.*

"ITE believes that successful CAV deployment is critical to achieving significant reductions of fatalities on our roadways and ultimately, attaining Vision Zero," said Jeffrey F. Paniati, ITE Executive Director and CEO. "Collaboration among private sector companies and governments on data sharing and safety metrics have been a key ingredient in improving airline safety and we believe it must be a key tenet for CAV safety as well." ITE has updated the six key tenets that underpin its position. These tenets provide a high-level framework for the development, testing, and deployment of CAV. Through its CAV Institute Initiative, ITE is increasing its efforts to identify critical supporting elements of a CAV future. Recently, ITE released the first Curbside Management Practitioners Guide. With the advent of transportation network companies, curbspace management has become a challenging safety and operational issue and its importance will increase as CAVs are deployed in cities.

"Infrastructure owners and operators will play an important role in building public confidence in these technologies and ensuring public safety," said Michael P. Sanderson, ITE International President. "Our members will be instrumental in facilitating public adoption, successfully integrating CAV into the management and operation of our transportation networks, and ensuring that CAV improves the quality of life for all citizens."

ITE's full position statement can be found at <u>https://www.ite.org/pub/CFAD9221-B559-7D79-</u> A09A-DAF0D549109A.

Get to Know Your ITE 2019 Election Candidates

Institute of Transportation Engineers

The ITE Nominating Committee has nominated the following candidates for the offices of International President and International Vice President for 2020 offices. More details on each of the candidates are found in the following link. <u>https://www.ite.org/about-ite/2019-candidates-for-international-board/</u>

Important Dates:

February 13 – Election ballot will open 12:00 PM ET March 14 – Election ballot closes 12:00 PM ET March 19 – Vice President Announced

Call for Technical Articles

If you are interested in preparing a technical article for inclusion in an upcoming newsletter, then please send it to Co-Newsletter Editors Bryan Elenes (belenes@advantec-usa.com) and David Schwegel (davidmschwegel1@gmail.com) by the end of the month preceding the next month's newsletter. For the February 2019 Newsletter, the deadline is **11:59 PM on January 30th**. Typically, 300 words and one photo fit into one column of our monthly newsletter.

ITE Talks Transportation - Podcast

Institute of Transportation Engineers



In Case you Missed it in the November Newsletter

ITE Talks Transportation Podcast Series is also available online at <u>https://www.pathlms.com/ite/</u>.

Frederick G. "Bud" Wright, executive director of the American Association of State Highway and Transportation Officials, announced earlier this year that he will retire at the end of 2018. He joins ITE Talks Transportation to discuss the changes and challenges in today's environment for transportation officials and professionals.

https://www.spreaker.com/user/ite-talkstransportation/bud-wright-interview

New website – It was a long time coming--ITE now has a new responsive website <u>https://www.ite.org/</u>. Some new features of the site:

- Modern look with updated images
- Responsive site design that formats to computers, tablets, and phones
- Reorganized content that is easier to find
- Featured items that highlight what the organization is currently focused on
- Updated meeting/event calendar

California Transportation Foundation -Scholarship

In Case you Missed it in the November Newsletter

The California Transportation Foundation (CTF) has awarded \$1.1 million in scholarships since its founding in 1988. CTF invites students to apply to one or more of the 35+ scholarship opportunities, some of which have specific deadlines and application windows. Please check the website below for deadlines. In order to qualify for these CTF scholarship opportunities, applicants must be intent on a career in transportation, and attend a school in California. They also must either be: (a) U.S. citizens, (b) permanent residents, or (c) documented international students. Please Visit www.transportationfoundation.org/scholarships to download CTF scholarship applications, obtain instructions, and gather additional information.

CTF scholarships are awarded competitively and are available to students at all levels, including high school, undergraduate, and graduate students. Several scholarships target specific populations of importance to donors. These requirements often relate to specific Caltrans Districts, functional areas, school districts, or other concerns.

Please see the info-graphic on the next page.



Career Opportunity

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Under direct or general supervision, performs various professional field and office engineering work related to the management, planning, design, construction, and maintenance of the City's Capital Improvement Program (CIP), land development, public works infrastructure, and daily departmental operations; provides project management and contract administration; confers with developers, contractors, and representatives of other agencies regarding facility and infrastructure development; administers professional services and construction contracts; provides professional staff assistance to the Principal Civil Engineer, other departments, and the public in areas of expertise; performs a variety of studies and prepares staff reports; and performs related work as required.

For more information please visit: <u>https://www.governmentjobs.com/jobs/2301670-0/assistant-</u> <u>engineer?keyword=engineer+transportation&location=santa+</u> <u>ana%2C+ca&pagetype=searchPage</u>

Finally, the Sponsorship Committee would like to thank this month's Newsletter and Meeting Sponsors:

Newsletter Sponsors CUBIC/Trafficware* Counts Unlimited Albert Grover & Associates

Meeting Sponsors Econolite

* Please note that CUBIC has acquired Trafficware and has updated their logo accordingly. Here is their new logo:







ITE Southern California Section

Annual Holiday Mixer 2018

The annual Holiday Mixer jointly hosted by ITE SoCal, RSBITE and OCTEC was held on December 5th at the Knotts Berry Farm Hotel in Buena Park. Thanks to all our sponsors and to everyone that was able to join us, without you this event wouldn't have been a success. Here is a look back at the event through the lenses.



(Photo Credit: Zaki Mustafa)



January Joint Meeting

January 16, 2019 11:30AM to 1:00PM

Monterey Hill Restaurant 3700 W. Ramona Blvd Monterey Park, CA 91754

Presenter: Jay Kim, LADOT

"Urban Mobility in a Digital Age"

GENERAL REGISTRATION ENDS ON 1/9/19 at 5:00pm

Registration through Eventbrite:

https://2019 itesocal cte meeting.eventbrite.com

General Registration \$30 | Late Registration \$35 | Students \$20

For Questions, please contact: Ed Alegre, PTP Secretary ITE SoCal Section <u>AlegreE@metro.net</u>

Lunch is Sponsored By:





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2018-2019 CALENDAR

INSTITUTE OF TRANSPORTATION ENGINEERS SOUTHERN CALIFORNIA SECTION



AUGUST 2018 ITE Annual Summer Mixer Wed. Aug 22, 2018 Dinner – 5:30 PM Police Academy Rock Garden, Los Angeles	SEPTEMBER 2018 Regular ITE Meeting Wed. Sept 19, 2018 Lunch – 11:30 AM Monterey Hill Restaurant, Monterey Park	OCTOBER 2018 Joint Meeting with OCTEC Thurs. Oct 25, 2018 Lunch – 11:30 AM Orange County Mining Company, Orange
NOVEMBER 2018 Joint Meeting with Riverside- San Bernardino Section Wed. Nov 14, 2018 Lunch – 11:30 AM The Restaurant at Kellogg Ranch, Cal Poly Pomona	DECEMBER 2018 Holiday Mixer with RSBITE & OCTEC Wed. Dec 5, 2018 Appetizers – 4:30 PM Knott's Berry Farm Resort, Buena Park	NEW YEAR AHEAD
JANUARY 2019 Joint Meeting with City Traffic Engineers Wed. Jan 16, 2019 Lunch – 11:30 AM Monterey Hill Restaurant, Monterey Park	FEBRUARY 2019 Joint Meeting with Central Coast Section Tues. Feb 13, 2019 Lunch – 11:30 AM Santa Monica Public Library 601 Santa Monica Blvd	MARCH 2019 Joint Meeting with San Diego Section Fri. March 8, 2019 Workshop – 9:00 AM – 1:00 PM Lunch – 12:00 PM Plaza de Magdelena San Juan Capistrano
APRIL 2019 Regular ITE Meeting Wed. April 17, 2019 Lunch – 11:30 AM To Be Determined	MAY 2019 Student Chapter Night Co-sponsored by OCTEC Wed. May 15, 2019 5:30 PM Student Job Fair, 6:30 PM Dinner Knott's Berry Farm Resort Hotel, Buena Park	JUNE 2019 Mini-Workshop/Annual Business & Joint Meeting with ITS SoCal Wed. June 12, 2019 8:30 AM – 12:00 PM Workshop, 12:00 PM Lunch, 1:00 PM Business Monterey Hill Restaurant, Monterey Park

NOTE: Locations and information is subject to change. Last Updated – July 23, 2018