

INSTITUTE OF TRANSPORTATION ENGINEERS SOUTHERN CALIFORNIA SECTION NEWSLETTER

### 2018 - 2019, Issue No. 8

### President's Message

Josh McNeill, PE, TE



Dear ITE Southern California Members,

We are closing in on a very exciting time of the year for ITE. Within the next two months our section will be hosting an exciting evening event for students and a workshop in conjunction ITS California. Shortly after the workshop, several of our members will be heading up to Monterey Bay for the Annual Western District meeting. On top of all of that, it's now time for us to think about ITE SoCal awards and elections.

#### 2019 Job Fair & Student Presentation Night

May ITE SoCal Meeting

Wednesday, May 22, 2019 5:30 pm to 9:00 pm

Knott's Berry Farm Hotel 7675 Crescent Ave Buena Park, CA 90260

https://2019 ite socal octec student night. eventbrite.com

We need nominations for the Young Transportation Engineer Award. Please

nominate those accomplished young engineers age 35 or less who are active in ITE and the industry. The nominations should include a description of the candidate's accomplishments in ITE and the industry. We also have the Classic Engineer Award that will go to one of our industry's mentor by our review panel.

Elections are coming up and we are happy to announce **Marc Violett** as our candidate for Treasurer for the Southern California Section. Ballots will be sent via email, so please let us know if your email address has changed so we can ensure you receive the ballot. The Western District Secretary/Treasurer Office is also up for election. Candidate information can be found <u>here</u>.

I would like to thank everyone that joined our April Luncheon at Luminarias Restaurant. It was our first experience at that location, and our members seemed to enjoy it. Our speaker Dapeng Zhang from Hyperloop One, provided an eye-opening update on the advances and objective with one of the notable

Inside This Issue High-Speed Rail Heroes – Pg.3

Engineers Present to Cal Poly Pomona ITE Students – Pg.5 ITE SoCal April Meeting – Pg.5 Legislative Analysis – Pg.6 Update from ITE Headquarters – Pg.7

Hyperloop companies. I would also like to thank our meeting sponsor KOA for sponsoring the meeting.

Our next meeting is the Student Chapter Night with OCTEC on Wednesday, May 22nd. The Job Fair starts at 5:30 p.m., and the Dinner starts at 6:45 p.m. We will have ten private firms and two public agencies represented at the job fair. This is a great opportunity for companies to meet with students in our industry. I would like to thank **ITS-CA** for sponsoring the Student Night Dinner. I would also like to thank **CUBIC/Trafficware**, **Econolite**, and **EtherWAN** for sponsoring this newsletter.

**Brief Look Ahead** 

### June

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

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

### **ITE Southern California Section**

www.socalite.org

### May 2019

### 2018 - 2019, Issue No. 8

### May 2019



A Conference, An Honoring of Heroes, and a Complete Transportation System David M. Schwegel, PE (Arcadis)



High-Speed Rail Model (Photo Credit: Siemens)

US High-Speed Rail The Association (www.ushsr.com), а Washington DC-based nonprofit that "builds widespread public, business, and political support for a major investment in a nationwide High Speed Rail network" held a West Coast Rail Conference at LA Metro Headquarters between April 30 and May 2. There were two days of educational sessions followed by a day of technical tours. This event attracted well over 100 attendees from around the world and featured 11 educational sessions, 30 presentations, and 26 sponsors along with exhibits in the boardroom lobby and posters positioned throughout the boardroom featuring High Speed Rail innovations, transit-oriented heroes, and development photographs.

Session highlights were as follows:

- Rail Renaissance in America featured Karen Philbrick (Mineta Transportation Institute), Phil Washington (LA Metro), Rod Diridon (Mineta Transportation Institute), and Andy Kunz (US High Speed Rail Association).
- High Speed Rail Around the World featured Jean-Pierre Loubinoux (UIC), Benjamin Dobernecker (Siemens), Scott Sherin (Alstom), Juan Pablo Barahona (Talgo), and Juan Matias Archilla Pintidura (Renfe).
- 3. California High Speed Rail America's Mega Project featured Karen Philbrick (Mineta Transportation Institute), Michelle Boehm

(California High Speed Rail Authority), and Stephanie Wiggins (Metrolink).

- New Money for Rail Public & Private featured John Morton (Global Infrastructure Partners) and Denny Zane (Move LA).
- 5. TOD Future Trends in Real Estate & Rail featured Jeanet Owens (LA Metro) and Michael Dieden (Creative Housing Associates).
- Getting Stations Right Design for Walkability, Placemaking, & Community featured Andrew Byrne (Grimshaw Architects), Vinayak Bharne (Moule Polyzoides Architects & Urbanists), and Brian O'Looney (Torti Gallas Architects).
- Urban Rail Scaling Up for \$180 Billion in Projects featured Bryan Pennington (LA Metro), John Douglas (Balfour Beatty Infrastructure), and Diego de la Garza (City of Los Angeles).
- 8. Special Keynote Presentation featured Vinay Mudholkar (Rail and Program Management US and International Technology Transfer).
- 9. Rail Technology & Global Best Practices featured Inaki Barron (Renfe).
- 10. High-Speed Rail: The Silver Bullet: Transforming Travel, Employment, Living Options featured Dow Constantine (King County, Washington), Takayoshi Oshima (Allied Telesis), and Andrea Giuricin (TRA Consulting).
- 11. Transforming US Transportation Policy featured Thea Selby (Next Steps Marketing), Denny Zane (Move LA), and Steve Larsen (California Strategies).

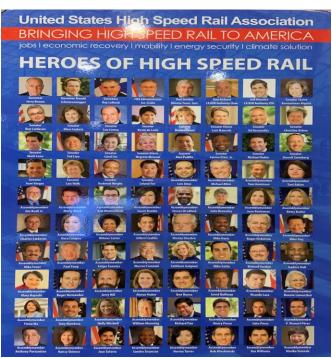
There was a poster displayed prominently in the Metro Boardroom dating back to July 2012 honoring a total of 80 high-level executives and elected officials who were instrumental at getting California High Speed Rail through both the Assembly and Senate. A few hero highlights are as follows:

- 1. Senate President Pro Tem Darrell Steinberg's quote, "With all 15 Republicans and 4 of the Democrats opposed, there was no room to spare...had to get everybody else", was prominently displayed on the front page of *The Sacramento Bee* on Saturday, July 7, 2012.
- Senator Leland Yee cast the deciding vote on High Speed Rail in the Senate resulting in the 21 votes necessary for passage.

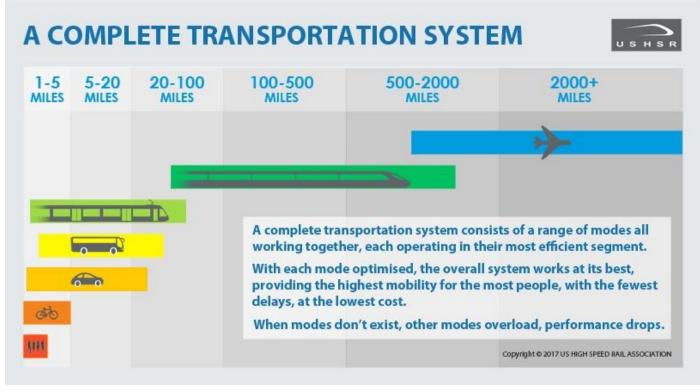
### 2018 - 2019, Issue No. 8

- Assembly members Cathleen Galgiani and Fiona Ma are widely regarded as the "Thelma and Louise of HSR", as they were instrumental in getting the HSR measure onto the ballot back in 2008.
- 4. Dan Richard served as Chair of the High-Speed Rail Authority Board of Directors between February 2012 and February 2019; and is now Chair of the US High Speed Rail Association's Advisory Board. <u>http://www.ushsr.com/ushsr/advisoryboard.h</u> <u>tml</u>
- 5. Governor Arnold Schwarzenegger reminisces on his "body building days" riding the Japanese Shinkansen while declaring that "failure is not an option" for making this technology a reality in the United States.

In 2017, the US High Speed Rail Association introduced an infographic on "A Complete Transportation System" noting HSR's role in covering journeys between 50 and 1,000 miles.



Heroes of High-Speed Rail (Photo Credit: US High-Speed Rail Association, 2012) www.ushsr.com/hsr/hoeroesofhsr.html



A Complete Transportation System (Photo Credit: US High-Speed Rail Association, 2017) www.ushsr.com/hsr/completesystem.html

### 2018 – 2019, Issue No. 8

Attendees making the 220-mile drive home to Fresno ("The Birthplace of True HSR in America) from the Conference would have been especially intrigued with a 90-minute travel option and a meal in route versus a 5-hour/300-minute journey entailing a drive within heavy traffic plus a meal and gas stop.

Check out the California High-Speed Rail Authority website <u>www.hsr.ca.gov</u> for information on a Business Plan that came out on May 1<sup>st</sup> focused specifically on the 164-mile Initial Operating Segment between Merced and Bakersfield.

Check out the US High Speed Rail Association's website <u>www.ushsr.com</u> for information on other proposed systems in North America including Seattle, Washington to Vancouver, British Columbia.

DKS and BKF Engineers Co-Present at a Cal Poly Pomona ITE Student Chapter Meeting Ashley Kim, EIT (DKS Associates)

On Thursday, April 18, **Ashley Kim** from DKS Associates and **Shannon Nguyen** from BKF Engineers co-presented at the Cal Poly Pomona ITE Student Chapter meeting. They presented on an intersection improvement project in the City of Irvine, CA, where they explained the traffic signal design process as well as their experiences in college, the workforce, and in professional organizations.



Cal Poly Pomona ITE Student Chapter along with DKS and BKF presenters (Photo Credit: Ashley Kim)

They encouraged the student members to pursue EIT certification and discussed upcoming internship opportunities at their companies. They also advised the younger generation of engineers to stay involved with ITE as students and as young working professionals; and encouraged them to serve on committees or as officers; and attend local and regional ITE meetings and conferences.

### **ITE So-Cal's April Luncheon** Bryan Luong (Michael Baker International)

ITE SoCal's April Luncheon was held on Wednesday, April 17, 2019 at the Luminarias Restaurant in Monterey Park. To begin the meeting of over 30 transportation professionals in attendance, the ITE SoCal President, Josh McNeill, called the meeting to order and made a few announcements for the Western District ITE and SoCal ITE:

• Registration for the Western District Meeting in Monterey Bay is currently open. The meeting will be held at the Hyatt Regency Hotel and Spa on Del Monte Golf Course from June 22 to June 26, 2019. Vendor booths and sponsorships are still available.

• The Annual Student Night hosted by ITE SoCal with OCTEC will be held on May 22, 2019 at 6:45PM at the Knott's Berry Farm Hotel in Buena Park. There will be approximately 100 students from the SoCal ITE student chapters in attendance, as well as a career fair prior to the event from 5:30PM to 6:30PM. There are currently seven career fair booths reserved and three open booths for more companies to be involved. Contact Josh McNeill or any of the ITE SoCal board members if your company is interested.

• The Annual Business Meeting and Mini-Workshop hosted by ITE SoCal with ITS CA will be held on June 19, 2019. The new ITE SoCal board will be sworn in and recipients of the Classic Engineer Award and Young Transportation Engineer Award will be announced at this meeting. The workshop will be discussing mobility as a service, one of the new initiatives established by ITE International. Josh introduced the meeting sponsor of the month, KOA. **Min Zhou** of KOA presented the company's services and work in transportation engineering and design, planning, active transportation, and construction management.

Josh then introduced the meeting speaker, **Dapeng Zhang**, on: "Making Hyperloop a Reality." As the Lead Transportation Economist for Virgin Hyperloop One, Mr. Zhang is responsible for the economic analysis of the hyperloop system and focuses on strategizing business endeavors, such as fundraising and bringing hyperloop into the market. He works directly with consultants, governments, investors, and engineers to promote hyperloop technology in multiple countries. The goal is to make hyperloop the next phase of transportation in the similar vein as automobiles for personal mobility and airplanes for global connections.

Virgin Hyperloop One is the only company to do full scale hyperloop testing and is currently evaluating the first-mile/last-mile issue and improving the user experience. Mr. Zhang discussed the use of ridesharing apps and traffic management systems at stations to service and inform riders. Since each pod holds approximately 24 to 28 people, the number of stops can be optimized, and pods can bypass stations at intermediate stops. Through hyperloop's use of levitating pods pushed by electromagnetic forces and the ability to be run autonomously, the cruising speed is approximately 670 mph. Mr. Zhang noted that hyperloop would have a lower lifetime cost than planes and high speed rail at all speeds due to the use of the pods in low pressure tubes.

Hyperloop currently has its biggest presence in India, but the company's vision is to connect 80% of the American population in 5 hours or less. Right now, the state of Colorado is partnering with Virgin Hyperloop One to study the feasibility of a statewide hyperloop network. The study is expected to be completed by the summer of 2019, and will capture wait time lengths as well as compare cost estimates with other modes of transportation. During this time of testing, the target audiences are high income individuals and high priority individuals, such as airline travelers.

### May 2019 Legislative Analysis Tyler Lindberg (Iteris)

Here is an update on transportation-related bills in the Legislature:

- AB-1243 (Fong) also known as the Traffic Relief and Road Improvement Act, would utilize existing sources of revenue from the Motor Vehicle Account, commercial motor vehicle weight fees, and fuel taxes to create a specific fund to address traffic congestion and deferred state highway maintenance. The bill would also prohibit CEQA from applying to a project or project permit that consists of the inspection, maintenance, repair, rehabilitation, and/or removal of existing transportation infrastructure, or to the addition of an auxiliary lane or bikeway to existing transportation infrastructure. (Status: Active Bill – In Committee Process)
- **SB 662 (Archuleta)** would require the Public Utilities Commission and Energy Commission to explore opportunities to increase gridresponsive production of green electrolytic hydrogen for use in the transportation sector. (Status: Active Bill – In Committee Process)
- SB-59 (Allen) which would establish guiding principles for autonomous vehicles to ensure they don't detract from the State's VMT and GHG reduction targets, was amended to require a working group to submit its recommendations for policy development to the Legislature on or before January 1, 2021. (Status: Active Bill – In Committee Process)
- SB-526 (Allen) which would require MPOs to assign lower priority to transportation projects that would increase VMT and GHG emissions, was amended to include land use parameters as well. (Status: Active Bill – In Committee Process)

For more information on recent transportation legislation in California, go to <u>https://leginfo.legislature.ca.gov</u>, select "Bill Information", and then "Bill Search". Input any transportation related keywords, and then select "Search".

### 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 (<u>belenes@advantec-usa.com</u>) and David Schwegel (<u>davidmschwegel1@gmail.com</u>) by the end of the month preceding the next month's newsletter. For the April 2018 Newsletter, the deadline is **11:59 PM on Friday, May 31**<sup>st</sup>. Typically, 300 words and one photo fit into one column of our monthly newsletter.

### Update from ITE Headquarters

Marianne Saglam (ITE Communications and Media Senior Director)

### May District, Section, Chapter Leadership Call Scheduled

The next District, Section, Chapter (D-S-C) Leadership call will be on Thursday, May 23, 2:00 p.m.-3:00 p.m. EDT. ITE leadership will be on hand to update you on ITE's Initiatives, ONE ITE, and resources that are available to you. Register here.

### **ITE STEM Resources**

The STEM subcommittee of the Institute of Transportation Engineers (ITE) is excited to announce a new transportation-themed STEM lesson resource for K-12 teachers. The lesson plans are designed to engage students in academic content through real-world transportation problems and projects. Accessible via the STEM Resources website, activities developed by the ITE subcommittee are featured as well as links to other relevant STEM content that is FREE for teachers.

### Road Safety Professional Level 1 and 2 Now Available

For transportation professionals seeking certification in the safety field, ITE is offering the Road Safety Professional (RSP) Level 1 and 2

certification with the first RSP2 and third RSP1 testing date taking place October 1 to 31, 2019 (applications must be received by midnight, August 6, 2019). Applications will be available by the end of April for RSP2.

This certification is geared toward professionals whose primary job functions are directed at improving the safety performance of the surface transportation system. It is for professionals responsible for developing and implementing engineering or behavioral programs aimed at reducing the number of fatalities and injuries due to road crashes. For more information on RSP certification, visit www.tpcb.org/certification/rsp/.

### ITE's New Podcast - Safety Through Speed Management

Leah Shahum, founder and executive director of the Vision Zero Network, and Robert Spillar, director of transportation, Austin, TX, USA, discuss how communities can safely manage speeds with roadway design, speed limit setting, and create a speed management program to reduce serious injuries and fatalities on roads.

### Podcasts

### **ITE Spotlite**

Make sure you're up to date with all the latest news! Below are links to the last three issues of Spotlite, including April.

### <u> April 24</u>

April 10

<u>March 27</u>



### ITE SoCal Elections 2019-2020

Joshua McNeill (ITE SoCal President)

Hello SoCal Section! It's election season; that means, it is time to choose your ITE SoCal Section Board. You will receive an email with voting ballots for all positions on the SoCal Board by May 20, 2019. You will have 30 days to vote with voting ending on June 19, 2019 at 12:00 PM. The winners will be announced on June 19, 2018 at our Annual Business Meeting, and the new Board will be sworn in at the end of the meeting. Please note that you will receive the voting ballot only if you are a current ITE member having paid your membership dues through 2019 and beyond. The Candidate statement for ITE SoCal Treasurer can be found below. Don't forget to vote!

### **Marc Violett**

<u>marc.violett@mbakerintl.com</u> Michael Baker International ITE SoCal Section Treasurer Candidate

I am so grateful and excited to be nominated for the Treasurer position on the board of the California Southern Section of ITE. Six years ago, when I decided to switch companies, I had not had any connection to SoCal ITE. But the opportunity arose to begin attending meetings to network, and learn,



participate. I found myself very comfortable with the people of the chapter and encouraged to be involved. After attending meetings and annual conferences and building meaningful relationships, I knew that So Cal ITE was the professional group to which I wanted to commit my time.

Over the past two years I have provided support by taking the position of Social Media Chair where I have updated the SoCal ITE Facebook page with upcoming events, past meetings, pictures, and other announcements. I am also proud to say that I've had the opportunity at the past two Western District conferences to be a participant in the resume building workshop. I really enjoy getting to know the students and having the chance to provide feedback to their resumes, information about my personal experiences, and knowledge regarding the industry.

As treasurer for the section I will continue to work with sponsorship chairs to bring in more companies and help create incentives for sponsorships. I will help the section continue to find public agency meeting locations that provide an interesting meeting experience while helping to keep meeting cost down. Our section has historically worked with other organizations to create great joint events, which require coordination of shared finances. I look forward to continuing to help make those events affordable for our members.

I currently work at Michael Baker International as the Traffic Department Manager out of our Santa Ana office. In 2004 I earned my B.S. in Civil Engineering at the University of Arizona and am a registered Professional Engineer in the State of California I am encouraged in my career by my wonderful family including my wife, Heather and our children Luke and Madison.

I would be honored to serve on the ITE SoCal Board as the next treasurer, and I'm eager to earn your vote. Thank you!







Job Fair & Student Presentation Night at **Knott's Berry Farm Hotel** 7675 Crescent Avenue Buena Park, CA 90620

EDNESDAY

9

# ANNUAL ITE-SOCAL/OCTEC JOB FAIR & STUDENT PRESENTATION NIGHT

Thank you to our Event Sponsor:



Thank you to our Job Booth Sponsors:



## JOB FAIR

05.22.201

Job Fair from 5:30PM to 6:30PM Free to attend (walk-ins OK) Must pre-register for dinner

## DINNER & STUDENT PRESENTATIONS

Check-in begins at 6:00 PM Dinner and Presentation at 6:45 Presentations from Southern California ITE Student Chapters Cal Poly Pomona CSU Fullerton CSU Long Beach UCI UCLA USC

Register at <u>https://2019 ite socal octec student night.eventbrite.com</u> EARLY REGISTRATION ENDS AT 5 PM FRIDAY 5/10 Questions? Contact <u>AlegreE@metro.net</u> Job Fair FREE! | General Early Registration \$30 | Students Dinner \$20 | Life Members Free!



The most advanced cloud-based traffic app to bring you real-time automated signal timing optimization and synchronization.

The revolutionary Edaptive software empowers you with both signal performance measures and proactive adaptive control. Improving mobility and giving commuters the extra time for those moments that count.

See why at: Econolite.com/Edaptive



More time to make memories

# NETWORK TRAINING MADE #ASY.

EtherWAN takes the guesswork out of ITS networking with training courses that simplify device implementation and network design. With coursework specific to ITS for a variety of skill levels, our classes are designed to accommodate your needs. Learn from certified Network Engineers and gain hands-on experience with real applications, so you can easily take what you've learned into the field.



(714) 779-3800 www.EtherWAN.com

# Getting you there. Smarter.

### **Deploy Smart Intersection Technology Today**

Whether it's our Synchro<sup>®</sup> Traffic Analysis and Simulation software, used in more than 90 countries and now integrated with our ATMS Central Management software, or the fastest growing adaptive system SynchroGreen<sup>®</sup>, Cubic | Trafficware technology delivers. Explore the entire smart intersection family of products.













Wireless Vehicle Detection System



### 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, Santa Monica	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 Magdalena San Juan Capistrano
APRIL 2019 Regular ITE Meeting Wed. April 17, 2019 Lunch – 11:30 AM Luminarias Restaurant 3500 Ramona Blvd Monterey Park, CA 91754	MAY 2019 Student Chapter Night Co-sponsored by OCTEC Wed. May 22, 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 19, 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 – April 4, 2019