

## September Presentation: Advanced Statewide Truck Activity Data Through Existing Detector Infrastructure

Dr. Andre Tok, UC Irvine, Institute of Transportation Studies

Urban Mobility in a Digital Age is a transportation technology strategy designed to build on the success and innovation of the City of Los Angeles and its Department of Transportation (LADOT) as regulator and transportation service provider in a complex and evolving ecosystem of public and private services. With a focus on building a solid data foundation, leveraging technology and design for a better customer experience, creating partnerships for more complimentary shared services, establish feedback loops for services and infrastructure, and preparing for an automated future, Los Angeles can refine and set the precedent for 21st Century mobility.



Dr. Andre Tok is Testbeds Manager and Associate Project Scientist at the University of California, Irvine, Institute of Transportation Studies. He earned his Ph.D. in Civil and Environmental Engineering from UC Irvine in 2008.

Dr Tok is passionately interested addressing data gaps in freight transportation analysis and modeling. He has managed several notable research projects including the development of the Online California Freight Data Repository, the California Statewide Freight Forecasting Model, the California Vehicle Inventory and Use Pilot Survey, and the Truck Activity Monitoring System where his research team developed and deployed an advanced statewide truck classification system based on inductive loop signature technology to improve truck activity data for freight modeling and analysis.

He is currently investigating the integration of wireless and advanced imaging technologies with inductive signature systems to further improve truck activity data. When Dr. Tok isn't contemplating about trucks, you'll likely find him tinkering with some obsolete woodworking machinery.

**UCI** Institute of  
Transportation Studies

### SEPTEMBER LUNCHEON

September 26, 2019

11:30 AM to 1:00 PM

**Orange County Mining Co**  
10000 S Crawford Cyn Rd  
Orange, CA 92705

#### Lunch Fees:

\$20 (Member) - Ends 9/29 @ 5 pm  
\$25 (Non-Member) - Ends 9/23 @ 5 pm  
Pay At the Door: \$30  
Students: \$10

Please register via Eventbrite at:  
<https://octecseptember2019.eventbrite.com>  
If you have any questions, please contact  
Ryan Calad, at  
[Ryand.Calad@mbakerintl.com](mailto:Ryand.Calad@mbakerintl.com)

### THIS MONTH'S LUNCH IS SPONSORED BY:



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## President's Address

Dear OCTEC Members and Future Members:

As the summer comes to an end (though the heat has not), I wish to welcome you all back to another year of OCTEC events. This year marks the 60th anniversary of OCTEC's founding and I would like to begin this message by taking a look at some numbers to show how far this organization had come since a small group of traffic engineers began meeting monthly in 1959:

- We had an average active membership of 200 per year for the past 10 years;
- Our average meeting attendance was 105 for the past 5 years with maximum attendance up to 150;
- Our members and attendees come from over 70 private companies and over 25 public agencies;
- Each year, we hold 7 monthly Lunch Meetings, 2 Social Mixers, 1 joint Holiday Mixer, 1 joint Student Night, and 1 Golf Tournament;
- In the past 3 years alone, OCTEC contributed nearly \$30,000 worth of scholarship money to transportation engineering students from Southern California universities through joint student events with ITE SoCal Section.

This organization has grown to what it is today owing to the support of our dedicated members and generous sponsors. The membership dues and sponsorship we receive each year help us keep the luncheon costs low for attendees and provide scholarship money to propel the future growth of our traffic engineering community.

In the upcoming 2019-2020 year, the Board and committee members will continue to provide a forum for local traffic engineers and aspiring transportation students to connect with one another and engage in meaningful conversations. As always, this community exists to serve you and the Board welcomes any input that could help us improve (including, but not limited to, policy changes, event ideas, volunteer opportunities, or speakers and meeting topics).

Finally, thank you OCTEC community for your continued involvement and contribution. Here is to a new year together!

Sincerely,

Kristin Tso, OCTEC President 2019-2020



Ryan Calad, 2019-20 Membership and Sponsorship Coordinator, is the newest OCTEC Board member.



Final OCTEC Luncheon of the 2018-19 Season at Orange County Mining Company on Thursday 6/27/2018.



Board members planning out the year ahead during the first Board meeting of the 2019-20 Season.

**OCTEC NEWS**

## ***FALL 2019 SOCIAL MIXER!***

Our first social of the 2019-2020 year will be held at

**Dave and Busters at The Outlets at Orange**

**November 14<sup>th</sup> from 5:30 PM - 8:30 PM**

Ticket is **\$7** during presale or **\$10** at the door. Price includes:

- Entry • 1 Drink • Hors d'oeuvre • 1 Raffle Ticket • Unlimited Pool and Shuffle Board

**TICKET SALE INFORMATION COMING SOON**

**Look forward to seeing you there!**

Event Sponsored By:



For additional sponsorship opportunities, please contact Ryan Calad at [ryan.calad@mbakerintl.com](mailto:ryan.calad@mbakerintl.com) or any Board member.

**Traffic Signal Association along with OCTEC**

**2019 VENDOR SHOW AND SOCIAL NIGHT**

**Thursday, October 17, 2019**

**Mile Square Golf Course in Fountain Valley**

**Vendor Show and Social Hour: 4:00PM till 8:00PM**

**FOOD SPONSORSHIP PROVIDED BY OCTEC**

There will be plenty of hors-d'oeuvres served from 4:00 PM until the conclusion of the evening. Drinks will be available for purchase from our bar. Gala prizes raffle starts at 7:00 PM.

Questions? Comments?

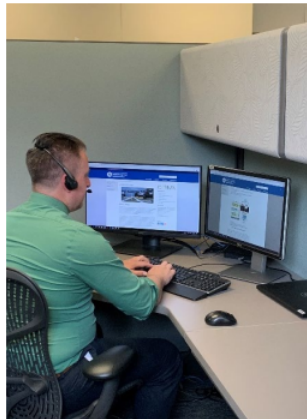
Contact Dan Eichmann at [dan@ddltraffic.com](mailto:dan@ddltraffic.com) or (714) 321-7513

## OCTEC NEWS

### FHWA R&T Now

#### Free Equipment Loans and Technical Support for Connected and Automated Vehicle Deployment Testing

The Federal Highway Administration (FHWA) and Intelligent Transportation Systems Joint Program Office (ITSJPO) maintain the Connected and Automated Vehicle (CAV) Support Services program, which provides equipment loans and no-cost technical support to infrastructure owner-operators (IOO) and other organizations interested in testing CAV technology.



Source: FHWA

**A researcher equips a connected vehicle with an OBU.**

Some of the services include:

- Device configuration support including output review of case logs, and interpretation of standards, content, and structure in J2735 messages.
- Map/traveler information message tool application support and troubleshooting of lane and phase-to-lane mapping issues.
- Device testing support such as dedicated short-range wireless sniffer access, global positioning location support, and Internet protocol version 6 (IPv6) assistance.
- Infrastructure implementation support including IPv6 network design and physical installation guidance.
- Security support, network security guidance, and credential management.

Source: FHWA

**An analyst provides technical support for testers of connected and automated vehicles.**

CAV Support Services' equipment loan program provides users the opportunity to become familiar with the types of equipment typically used in connected vehicle (CV) deployment. Available equipment includes:

- Roadside Units (RSUs) – CV radio equipment designed to be installed as part of the roadway infrastructure.
- Onboard Units (OBUs) – CV radio equipment designed to be installed inside a vehicle.
- Packet Sniffers – Hardware that monitors network traffic by examining data packets flowing through the radio equipment.
- Signal Phase and Timing (SPaT) and Map Message Test Devices – Real-time provision of traffic SPaT information to vehicles approaching signalized intersections.

CAV Support Services also offers a Help Desk that provides users with technical assistance during CAV testing and deployments.

Users can submit a support ticket from ITSJPO's [Resources for Practitioners page](#). IOOs that participate can make technology adoption more efficient by troubleshooting with expert technical support. CAV Support Services also provides the opportunity to test equipment from a variety of vendors in a no-cost environment. For more information, contact [CAVSupportServices@dot.gov](mailto:CAVSupportServices@dot.gov).



U.S. Department  
of Transportation  
**Federal Highway  
Administration**

## LOCAL, REGIONAL & NATIONAL NEWS

### Concepts for Newport Boulevard widening begin to take shape in Costa Mesa

It may be far from reality now, but residents got a first glimpse Monday evening at the possible future of Newport Boulevard in Costa Mesa.

City leaders and designers from contractor Onward Engineering presented preliminary concepts for three different options for the stretch of the boulevard between 19th Street and Superior Avenue, just north of 17th Street, during a community meeting at the Donald Dungan Library. [\[Continue here\]](#)

### Metrolink hosts national safety conference featuring leaders in new technologies

Metrolink hosted its Metrolink Rail Safety Summit with leaders in safety and security from around the country to address issues such as railroad crossing safety, mental health and homelessness, along with quiet zone implementation and future improvements to Positive Train Control (PTC).

The keynote address was delivered by National Transportation Safety Board (NTSB) Member Jennifer Homendy. [\[Continue here\]](#)

### California Governor signs into law bill focused on expediting transportation projects

California Gov. Gavin Newsom has signed Assemblywoman Rebecca Bauer-Kahan's AB 1475 bill into law, which allows Regional Transportation Authorities (RTA) to utilize an innovative method for transportation projects.

"AB 1475 began as a bill specifically for a project in San Ramon which would allow the Contra Costa Transportation Authority to utilize a cost saving project model that would connect the Iron Horse Trail to regional transportation hubs," Bauer-Kahan said. "The model created was so sought after that we were happy to extend this option to other RTAs in California to help deliver projects on time and under budget – saving valuable tax dollars. I'm thrilled to see the governor's support of this important bill." [\[Continue here\]](#)

### Senate Transportation-HUD Panel Advances \$74.3 Billion FY 2020 Spending Bill

The fiscal year 2020 Transportation, Housing and Urban Development, and Related Agencies (THUD) Senate Appropriations

bill provides \$74.3 billion in discretionary budget authority – \$2.6 billion more than the fiscal year 2019 enacted level, and \$15.8 billion more than the President's request. The programs and activities supported by this bill include significant responsibilities entrusted to the Federal government and its partners to protect human health and safety by providing additional resources to prevent and end homelessness, as well as housing stability for nearly 5 million low-income households nationwide, the majority of which are elderly or disabled. The bill also sustains strong investments into efficiency of our transportation networks, including the operation of the world's safest and most complex air transportation system. [\[Continue here\]](#)

### Metro to begin soliciting private companies for help with public transit project between Valley and Westside

Officials at LA Metro say the agency will begin a process next month to partner with a private sector company for its multi-billion dollar public transit project aiming to connect the San Fernando Valley and Westside via the Sepulveda Pass as a public transit alternative to the notoriously congested 405 freeway.

The undertaking marks the first time LA Metro will employ this public-private partnership model, known as a Pre-Development Agreement (PDA), in the early design process of a large-scale project. [\[Continue here\]](#)

### ATA tells Congress to put brakes on spread of tolls

Today, the American Trucking Associations told a House subcommittee that the use of tolls to finance infrastructure construction and maintenance was inefficient, unsafe and damaging to the trucking industry.

"While the trucking industry is willing to pay its fair share for infrastructure improvement, we believe that tolls are not the right solution, and in fact can be very harmful to our industry, our customers and ultimately, to consumers," YRC Worldwide Inc. CEO Darren Hawkins told the House Transportation and Infrastructure Committee's Subcommittee on Highways & Transit on behalf of ATA. [\[Continue here\]](#)

## JOB ANNOUNCEMENTS

### Minagar & Associates, Inc.: Senior Traffic/ Transportation Engineer

Minagar & Associates, Inc. an award winning 26-year-old consulting ITS, traffic/civil/electrical engineering, transportation planning, homeland security and CEM firm has an immediate opening for a dynamic Senior Traffic/Transportation Engineer in our Laguna Hills office. We have completed over 900 projects in over 17 states and in over 85 cities in California. An excellent position for growth in a small team environment. Please e-mail your resume confidentially to [minagarf@minagarinc.com](mailto:minagarf@minagarinc.com)

### raSmith: Traffic Project Manager

raSmith is a multi-disciplinary consulting firm comprising civil engineers, structural engineers, land surveyors, development managers, landscape architects and ecologists. Our services are focused on our public and private sector client needs in design and construction including land development, site planning and design, structural engineering, municipal engineering, transportation and traffic, surveying, construction services and geographic information systems (GIS). We work on projects nationwide from our eight locations in Wisconsin, Illinois, California and Pennsylvania.

We currently have an opening for a Project Manager in our Traffic Group at our Irvine, CA location. This position will manage projects for a variety of clients on traffic engineering and planning projects. The Traffic Group works in municipal and private markets. See [website](#) for more details.

### Follow Us

Please contact [Kristin Tso](#) or any Board member if you have any job listings that you would like posted to the OCTEC website or included in the next month's OCTEC newsletter.

Visit our [WEBSITE](#) for the latest job posts, newsletters, and presentations from current and past meetings.



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## Bringing people together through enhanced mobility

We create connections that take people and goods from here to there—whether by car, bus, train, plane, or their own two feet. Working within the context of the communities we serve, we provide planning, engineering, and infrastructure management services that fit the needs of our clients and improve the overall traveler experience. From traffic engineering and transportation planning projects to autonomous vehicles, transit systems, and airport design, our focus is always on providing solutions that respect the local environment.

 **Stantec**

[stantec.com/transportation](http://stantec.com/transportation)  
Irvine Office 949.923.6000

Connect with us  
    

## 2019 -2020 Sponsors

OCTEC would like to give a special thanks to all of our generous sponsors!

Meeting Date

Newsletter Sponsors

Lunch/Meeting Sponsors

September 26, 2019

CT-West  
Stantec



October 24, 2019  
Joint Meeting – ITE SoCal

Michael Baker International  
Verizon



January 23, 2020

KOA Corporation  
McCain



February 27, 2020

DKS Associates  
Kimley-Horn



March 26, 2020

Albert Grover & Associates  
Iteris



April 23, 2020

Advantec  
LSA



May 8, 2020  
TBD

OCTEC Golf Tournament  
SoCal ITE/OCTEC Student Chapter Night

<Sponsorship Available>

June 25, 2020

Ganddini Group, Inc.  
NexTech Systems



*For more information and sponsorship opportunities, please contact Ryan Calad at (949) 472-3453 or [ryan.calad@mbakerintl.com](mailto:ryan.calad@mbakerintl.com)*

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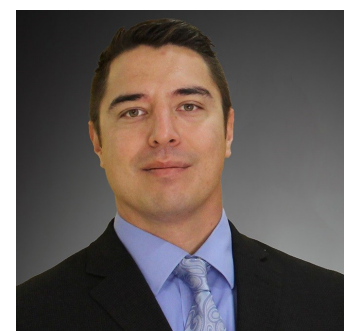
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