

EDUCATION
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OCTEC Bazette

The Official Newsletter of
the Orange County Traffic
Engineering Council

2013-2014 — Issue 5
March 2014

Our January Program: UNDERSTANDING ETHERNET By Gabe Murillo

Program:

Advanced communication in ITS, the pitfalls and how to avoid them. This presentation will look at the evolution of communications in traffic signal systems. Interconnecting systems historically were centered around the synchronization of traffic signals. Is that still the only design requirement? The presentation will highlight real-world projects over the past 10 years with a focus on what worked well, what could have been improved to better suit the traffic operation, and long term ITS goals.

Ethernet communication is providing the mechanism to go beyond just a "synchronized clock" for traffic management. The example projects will be used to discuss the use of Ethernet in ITS, problems that have been encountered, how the problem was overcome, and lessons learned.



Gabe Murillo is an Associate Vice President at Iteris, Inc with specialization in systems engineering practices to design, deploy and integrate ITS elements in advanced transportation management systems. These include advanced traveler information systems; transit signal priority systems and bus rapid transit systems; traffic management center design and implementation; advanced coordinated signalized intersection networks; and communication systems. Gabe received his Bachelor of Science degree in Electrical Engineering at Loyola Marymount University and his Master of Business Administration at the University of California, Irvine. Though he's spent over 15 years working in a large TMC operating over 2000 intersections, his biggest achievements are his two daughters, Soleil and Luciana.

Upcoming Programs:

April 24, 2014:

A panel of various agencies discussing Complete Streets.

May 2014:

OCTEC / ITE Golf Tournament on Friday, May 9, 2014

ITE / OCTEC Joint Meeting—Student Night on Wednesday, May 21, 2014

June 26, 2014:

Kevin Aguigui of Kimley-Horn and Associates, Inc. will present what's new with BRT.

MARCH MEETING

Join us:

Orange Hill Restaurant
March 27, 2014
11:30 AM — 1:00 PM

6410 East Chapman Avenue
Orange, CA 92869
714/997.2910

Student Members: \$15
Members: \$20 before 3/20/14 &
\$25 until 3/25/14 @ 5PM
Non-Members: \$25 before 3/20/14 &
\$30 until 3/25/14 @ 5PM

\$30 at the door without an RSVP for all attendees

Please go to: [https://
octecmarch2014.eventbrite.com](https://octecmarch2014.eventbrite.com)

If you have questions, please contact
[Keith Rand](#)

THIS MONTH'S LUNCH IS SPONSORED BY:



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PREVIOUS MEETING'S RECAP

Though Tami Warren was unable to attend, she sent Kurt Brotcke, Orange County Transit Authority (OCTA) Director of Strategic Planning, to provide a detailed update on the M2020 Plan. The measure has been designed to focus 43% on freeways, 32% on streets, and 25% on transit with approximately \$5 billion of improvements planned from now until 2026. Since passing by a 70% vote in 2006, M2020 has gone through some modifications and rescaling of projects due to actual funding available versus projected funds. A summary of the expected projects per category is listed below.

- Freeway: 14 freeway projects, including 9 environmental projects, of which are all improvements to general purpose lanes
- Streets: traffic signal synchronization at approximately 2000 signals within 2 to 3 years
- Transit: 2 trolley routes within the Cities of Anaheim, Santa Ana, and Garden Grove



A summary of the financial report provided by Ed Alegre, OCTEC Treasurer, recapping 2013:

- ◆ 2013 had the highest membership to date (207 paid member), currently there are 171 paid members
- ◆ OCTEC has an average of 90 attendees per luncheon: cost of lunches is approximately \$2,600 for which lunch fees and sponsorships (monthly lunch and newsletter sponsors) are able to cover
- ◆ OCTEC sponsorships in 2013:
 - ⇒ \$6,500 towards ITE/OCTEC Student Night awards to ITE student chapters
 - ⇒ \$1,000 towards TSA Vendor Show (sponsored the food)
 - ⇒ \$500 towards social mixer for the members
 - ⇒ \$200 towards the OCTEC membership drive
- ◆ The 2014 OCTEC Budget will be prepared for distribution this year

Hamid Bahadori, Transportation Policy and Programs Manager of the Automobile Club of Southern California (AAA), provided an update to the California Traffic Control Devices Committee’s (CTCDC’s) efforts regarding AB 621, which proposes to increase the existing California Manual on Uniform Traffic Control Devices (CA MUTCD) recommended yellow times. It is expected that all yellow times will be increased by **January 2017** with new tables taking into account a 5 miles per hour (mph) increase to 85th percentile free flow speeds and 7 to 10 miles mph increase to all posted speed limits to determine the minimum required yellow time. Note that all red light enforced movements will be updated by **January 2015**.

HAPPENINGS...

JOB POSTINGS (OCTEC WEBSITE)

Current job postings on the OCTEC website. Visit the site for opportunities or provide OCTEC officers with openings.

Visit the following link: <http://www.iterisprojects.com/octec/jobs.html>

2014 OCTEC MEMBERSHIP

For anyone who missed the January deadline, the 2014 OCTEC membership of \$25 will remain open for the rest of the OCTEC fiscal year (end of June 2014). Students are still FREE for the first year!

Questions? Contact Keith Rand at keith.rand@urs.com or visit the following link:

<https://2014octecmembership-open.eventbrite.com>

2014 OCTEC/ITE ANNUAL GOLF TOURNAMENT

Friday, May 9, 2014 @ Green River Golf Club, Corona, CA

Sign-ups for the annual OCTEC/ITE Golf Tournament is now open. Tickets are \$90/person, including cart and lunch, which can be purchased as single, twosome, or foursome.

Questions? Contact Jim Sommers at jsommers@koacorp.com or Ron Keith at rkeith@octa.net OR go to

<https://www.eventbrite.com/e/2014-octecso-cal-ite-golf-tournament-tickets-9869311376>



**2014 JOINT WESTERN/MIDWESTERN
ITE DISTRICT ANNUAL MEETING**

June 29th—July 2nd, 2014 in Rapid City, South Dakota

Sign-ups for the annual OCTEC/ITE Golf Tournament is now open.

Questions? Contact Randy McCourt at rsm@dksassociates.com or visit <http://www.2014ite.com/>

TECHNOLOGY TRANSFER PROGRAM

Title	Date	City
Traffic Operations & Highway Capacity Analysis	Mar 25 - Mar 26, 2014	Ontario CA
Bicycle Transportation: Planning, Policy, and Liability	Apr 1 - Apr 3, 2014	Online
Type 2070 Traffic Signal Controller	Apr 23 - Apr 24, 2014	Costa Mesa CA
Managing Transportation & Land Use Interactions	May 13 - May 14, 2014	San Bernardino CA
Multimodal Level-of-Service Analysis	Jun 18 - Jun 19, 2014	Online
Bicycle Transportation: Bicycle Path Planning and Design	Jun 24 - Jun 26, 2014	Online

To view all Spring 2014 classes sorted by date: www.techtransfer.berkeley.edu/schedule

This month's newsletter is brought to you by:

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AWARDS

- 2012** Winner of Cal-EPA/California Air Resources Board's Cool California Climate Leader
- 2011** Award of Excellence in Service by Los Angeles County MTA/Metro in the County of Los Angeles
- 2011** Award of Excellence in Service by Los Angeles County MTA/Metro in the County of Los Angeles
- 2010** Award of Excellence in Service by Los Angeles County MTA/Metro in the County of Los Angeles
- 2009** Winner of the ASCE's Outstanding Private Sector Civil Engineering Project in Metropolitan Los Angeles
- 2009** Winner of the Caltrans' 2009 Excellence in Transportation Award in the State of California
- 2007** Winner of ASCE's Outstanding Public/Private Sector Civil Engineering Project in Metropolitan Los Angeles
- 2005** Winner of the APWA's Best Traffic Congestion Mitigation Project of the Year in Southern California
- 2004** Top Nominee of Transportation Foundation's Highway Mgmt. Program in the State of California
- 2003** Winner of the PTI's Best Transportation Technology Solutions Award in the United States
- 2002** Winner of the ITS-CA's Best Return on Investment Project Award in the State of California
- 2000** Award of Excellence in Service by Los Angeles County MTA/Metro in the County of Los Angeles

Thank you for making OCTEC a success!

OCTEC would like to give a special thanks to all of our generous 2013/2014 sponsors!

Newsletter Sponsors

Meeting Sponsors

September 26, 2013

Hartzog & Crabill
URS Corporation

LSA

October 24, 2013

Albert Grover & Associates
DDL Traffic



November 2013

No meeting, no newsletter

n/a

December 2013

No meeting, no newsletter

n/a

January 23, 2014

Econolite
RBF Consulting A Baker Company



February 27, 2014

ADVANTEC Consulting Engineers
W.G. Zimmerman Engineering



March 27, 2014

FPL and Associates
Minagar & Associates



April 24, 2014

Iteris, Inc.
Kimley-Horn Associates



May 9, 2014

OCTEC/ITE Golf Tournament

Sponsorship opportunities available

May 21, 2014

OCTEC/ITE Joint Meeting—Student Night n/a

June 26, 2014

Kunzman Associates
National Data & Surveying Services



July 2014

No meeting, no newsletter n/a

August 2014

No meeting, no newsletter n/a

For more information and sponsorship opportunities, please contact Keith Rand, Sponsorship/Membership Coordinator, (714) 433-7665 keith.rand@urs.com

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