



# TBITE Quarterly

Volume 10, Issue 1

Q1 2012

## OUTGOING PRESIDENT'S MESSAGE

Patrick O'Connor  
Albeck Gerken Inc.

After spending the last couple of years looking forward to my opportunity to serve as TBITE president, I blinked, the year ended and my time as president had come to an end. It was truly an honor to serve as president, owing special thanks to the members of the executive board, committee members and all the members.

I look forward to continuing my service to the executive board for the next year as immediate past president and into the future, assisting those who step up to lead the organization. Congratulations to our award winners who were presented with their awards at the District 10 annual meeting in St Petersburg December 1. **Keith Crawford** was awarded the Transportation Professional of the year award and **Jodi Smith** from USF was awarded a \$1,000 check from the Keith A. Crawford Student Scholarship fund. Once again, thanks to generous donations from our members we were able to provide a sum greater than the advertised. 'Thank you' to everyone who donated to our fund!

Also, I wanted to say thank you to all of the volunteers who helped with the local arrangements committee for the Florida Section ITE meeting. The silent auction that was conducted during the reception on Thursday night raised in excess of \$600 for our scholarship fund. **Elisa Powell**, **Amanda Correia** and **Swathi Konda** far exceeded our expectations in procuring donations for the silent auction which has become very difficult in the last couple of years with the decline of the economy. Here's to a great 2012, see you soon and please contribute to TBITE anyway you can through sponsorships, memberships, volunteering and mentoring!!!

## INCOMING PRESIDENT'S MESSAGE

Ken Siu, E.I.  
Albeck Gerken Inc.

It is with great pleasure that I step into the Chapter President role this year. Before beginning my time on the TBITE executive board as chapter secretary, I spent several years volunteering on various committees. Those experiences made me realize that I wanted to serve our transportation community in a large role.

This year the executive board is working hard to bring our members quality events and opportunities to become more involved in TBITE. We've already started out the year with a networking event at Bar Louie's at International Plaza, which was attended by nearly 30 TBITE members, old and new. We also have some interesting speakers lined up for our quarterly meetings as well as some unique events and possible technical tours later in the year.

I would also like to invite our members to submit nominations for our end of year awards for Professional, Young Professional and Project of the Year. If you know of a deserving individual or unique project which fits the criteria we encourage you to send them in early as the end of the year will be upon us before we know.

This year I welcome Sara Chambers to our board as the chapter treasurer and am confident that she will be a great addition in our efforts to provide TBITE members with the quality events that have become our standard. Being a part of the TBITE board has been a truly rewarding experience, and I thank my fellow board members for their continuing efforts and hard work.

## ISSUE HIGHLIGHTS

Please contact Ken Siu at [ksiu@albeckgerken.com](mailto:ksiu@albeckgerken.com), or Erbie Garrett at [egarrett@garrelltengroup.com](mailto:egarrett@garrelltengroup.com) with suggestions for the next TBITE Quarterly!

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## 2012 MEMBERSHIP DUES

It's that time of year again to renew your Tampa Bay Chapter ITE membership. All national members of ITE and those who were on our e-mail distribution list last year will receive the updated form. If you or someone you know hasn't received a form please contact one of the TBITE Executive Board Members for an application!

## 2012 CORPORATE SPONSORSHIP

*Wouldn't your company's logo look good in this space!* The applications will be going out with the membership information so make sure the proper marketing/management person in your organization is aware of the great opportunities available to sponsor TBITE in 2012 and beyond!

## 2012 TBITE EXECUTIVE BOARD

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## GET INVOLVED WITH TBITE!

### On-Site- & Pre-Meeting Coordination:

**Karddy Rodriguez, E.I., Icon Consultant Group**

### Scholarship/Fundraising Committee:

**Volunteer for 2012!**

### TBITE Annual Awards Banquet Committee:

**Volunteer for 2012!**

### Website Master:

Alex Anaya, P.E., PTOE, Grimail Crawford, Inc  
[aanaya@gc-inc.com](mailto:aanaya@gc-inc.com)

### Events Committee:

**Rachel Cantor, RC Associates, LLC**  
[rachel@rcassociatesllc.com](mailto:rachel@rcassociatesllc.com)

### Activities Committee (Open)

**Volunteer for 2012!**

## KEITH CRAWFORD STUDENT SCHOLARSHIP FUND

In 2011, due to our generous member donations, TBITE was able to award a \$1,000 scholarship to Jodi Smith from USF. We would like to let you all know that anyone can make a donation to this fund and it is tax deductible. All donations are greatly appreciated and will be recognized at the annual banquet. Please contact Sara Chambers [sara.chambers@hdrinc.com](mailto:sara.chambers@hdrinc.com) to make a donation to the scholarship fund.

Thank you!



## UPCOMING EVENTS

### **TBITE Luncheon**

*“Guest Speaker –  
Don Skelton, District Seven Secretary  
March 29th, 2012  
Tampa, FL*

**Florida Section ITE Summer Meeting**  
June 13-15, 2012  
Daytona Beach, FL

**Transpo/FSITE 50<sup>th</sup> Anniversary Celebration**  
October 28-31, 2012  
Hyatt Regency Grand Cypress  
Bonita Springs, FL

## 2011 MEMBERSHIP

114 Members

## Ten Things We Bet You Didn't Know About Red-Light Running!

1. **You or your loved ones are more likely to be injured** due to a red-light running related crash than any other type of crash.
2. Running red lights or other traffic controls is **the most common cause of all urban crashes**.
3. **Someone runs a red light an average of every 20 minutes** at urban intersections.
4. Car crashes rank among the leading causes of death in the United States and the leading cause of death for children, teens and young adults up to age 34.
5. In the last decade, red-light running crashes **killed nearly 9,000 people**.
6. An estimated **165,000 motorists, cyclists, and pedestrians are injured annually** by red-light runners.
7. **Half of the people killed by red-light runners are not the signal violators** — they are passengers, other motorists, pedestrians, and cyclists.
8. Nearly 93% of drivers believe running a red light is unacceptable, yet 1 in 3 drivers reported doing so in the past 30 days.
9. There are an average of 7 fatal crashes and over 1,000 injury crashes EVERY DAY at signalized intersections across the United States.
10. The cost to society of all crashes exceeds \$230 billion annually.
11. The tragedies and costs resulting from red-light running are preventable!

For other fun Traffic related facts see the ITE website at – <http://www.ite.org>

## 2012 SPEAKERS WANTED

If you would like to volunteer yourself (or someone else) to make a presentation at one of our TBITE quarterly meetings please contact a TBITE Executive Board Member. Also, if there is a topic you would like to hear about but don't have a specific speaker in mind, please let us know.



## 2011 ANNUAL MEETING HIGHLIGHTS

*St. Petersburg, Florida  
October 24-26, 2010  
Hyatt Regency Grand Cypress*

Prepared by LAC Chairman/TBITE Past-President Patrick O'Connor

### Meeting

The annual meeting started with a highly anticipated technical tour of Downtown St. Petersburg. **Joe Kubicki** and **Mike Frederick** from the City of St Petersburg took a group of meeting attendees to eight locations throughout downtown highlighting multi-modal integration and innovation over the course of three hours. The stops included pedestrian hybrid beacons (HAWK), and overpasses along the Pinellas Trail plus Rectangular Rapid Flashing Beacon (RRFB). Also, a representative from the St Pete Police Department spoke about the City's traffic safety camera enforcement program, "Stop on Red".

The meeting started on Thursday morning with a welcoming speech from current **City Mayor Bill Foster**. The first Technical Session, "Hometown Growth Management", began with a brief presentation by **Representative Rich Workman**. **Brent Lacy** moderated a lively discussion between panelists **Nancy Linnan**, **Carlton-Fields** and **Julia Coles**, **City of Tampa** and **Rep. Workman** upon completion of the presentation.

The second Technical Session moderated by **Rob Fulp** included **Joe Santos** from **FDOT Central Office** presentation on "Roadway Safety – Moving Towards Zero". **Richard Retting**, **Sam Schwartz Engineering** made a presentation on the history of photo enforcement around the County which began with a single camera in 1991 and now including cameras in more than 60 Florida jurisdictions. **Jeanette Rouse** **FDOT D7** and **Susan Boda**, **Tindale Oliver**, made a presentation on the ongoing efforts of the "Community Traffic Safety Team" and explained the innovative educational campaigns at work in Tampa Bay.

During lunch former St Petersburg **Mayor Rick Baker**, and major transportation advocate, spoke about the changes that he instituted during his term as mayor and the urban revitalization that occurred during his terms. **ITE International President Robert Wunderlich** spoke about the future of ITE and his great experiences during his term on the International Board. This was Roberts's second visit to a Florida Section/District 10 meeting but his first visit since visiting during his campaigning in the summer of 2009. Immediately after lunch, Robert took some special time with the ITE students to discuss the direction of International ITE and how they benefit from membership in ITE.

**Bill Oliver**, **Tindale Oliver**, moderated the "Transportation Concurrency vs. Mobility Fees" technical session which included a panel discussion with **Andrea Zelman**, **Fowler White**, **David Goldstein**, **Pasco County**, and **Katy Neill**, **FDOT Central Office**. The move towards mobility fees and away from transportation concurrency was discussed and the efforts were debated from a developer, county and state standpoint.

Technical Session Four "Hot Topics in Transportation" was moderated by **Matt Wet**, **HDR**. **Kristine Williams**, **USF CUTR**, presented on "Advancing Sustainability through Access Management" exploring the role of access management in accomplishing a more sustainable approach to transportation and development planning in the US. **Hesham Ali's**, **Sustainable Road Engineering**, presentation on "Hot-in-Place Recycled Pavement" discussed the advantages of using this as an option over traditional milling and resurfacing operations. **Doug McLeod**, the **FDOT Statewide Manager** for highway capacity and level of service analysis presented the updated LOS standards, new standard K factor process as well as guidance on implementing highway capacity and LOS analyses.



The first technical session on Friday morning was moderated by **Jeff Gerken**, Albeck Gerken, Inc, on Transportation Systems Management and Operations (TSM&O) from the varied perspective of four different County agencies. **Charles Wetzel**, Seminole County, discussed the County's ATMS program and its recent BlueToad deployment. **Ken Jacobs**, Pinellas County, discussed the work performed over the last 12 years and the regional perspective that was required to manage traffic in the county. **Sage Kamiya** was the final presenter on behalf of Manatee County. Sage discussed the ongoing two phases of ATMS/ITS upgrades in Manatee County and the efforts that have been taken to get the system off the ground..

The Annual Awards Banquet took place on Thursday evening and was co-hosted by the Tampa Bay Chapter of ITE. In all, 10 awards were presented including project, professional and student awards. We had the honor of listening to presentations by both FDOT District 1 Secretary **Billy Hattaway** and FDOT District 7 Secretary **Don Skelton**. I would like to thank all of the firms and individuals who donated their time or resources to make the banquet and the annual meeting possible. Special thanks to our silent auction donors and bidders who helped us raise over \$600 for the TBITE Keith A Crawford Scholarship Fund.

**Awards:**

*John W Barr District 10 Transportation Achievement Award - Florida Motorcycle Safety Coalition*  
*Edward A Mueller District 10 Transportation Engineer of the Year Award – Matthew Wey, P.E.*

In 2011, the FSITE Board voted to name this award in honor of **Jack Freeman** for his continued contributions to promoting transportation professionalism in ITE.

*Jack Freeman FSITE Transportation Professional of the Year Award – Ken Sides, PE, PTOE, AICP*  
*Robert L Hill, Jr. FSITE Young Transportation Engineer of the Year Award – Patrick O'Connor, PE, PTOE*  
*Nat Rambo Fellowship Award – David Bright*  
*Woody Hiller Distinguished Service Awards – Jeff Arey, PE*  
*Bill McGrath Transportation Scholarship – Kyle Taniguichi, University of South Florida*

**TBITE also presented awards at the banquet:**

Professional of the Year – **Keith A Crawford, PE**  
Project of the Year – **St Petersburg, Citywide Crash Analysis and Traffic Safety Cameras**  
Keith A Crawford Student Scholarship – **Jodie Smith, University of South Florida**

*Special thanks to the Local Arrangements Committee:*

*Rosana Correa, P.E., PTOE Jacobs, Inc.*  
*Rob Fulp, P.E. SRD Engineers, Inc.*  
*Patrick O'Connor, P.E., PTOE Albeck Gerken, Inc.*  
*Ken Siu Albeck Gerken, Inc.*  
*Oliver Rodrigues, P.E. Bayside Engineering, Inc.*  
*Erbie Garrett, P.E., PTOE Garrett Engineering Group*  
*Sara Chambers HDR, Inc.*  
*Karddy Rodriguez ICON Consultant Group*  
*Elisa Powell KCI Technologies, Inc.*  
*Rachel Cantor RC Associates*  
*Swathi Konda King Engineering Group*  
*Sage Kamiya, P.E., PTOE Manatee County*  
*Susan Boda Tindale - Oliver & Associates, Inc.*  
*Matthew Wey, P.E., PTOE HDR Engineering, Inc.*  
*Amanda Correia, P.E. AIM Engineering, Inc.*  
*Joe Grimail, P.E. Grimail Crawford, Inc.*

*Special thanks to our sponsors:*

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Keith A Crawford Student Scholarship – Jodie Smith, University of South Florida



FDOT District 7 Secretary Don Skelton



## USF ITE STUDENT CHAPTER SPRING REPORT

*Mr. Kyle Taniguchi  
Secretary, USF ITE Student Chapter*

The Institute of Transportation Engineers Student Chapter at University of South Florida continues to pursue professional as well as community activities into the New Year. This past semester, our student members, Mr. **Kyle Taniguchi** and Ms. **Jodi Godfrey**, did us proud as recipients of the Bill McGrath and Keith Crawford scholarships (respectively). In addition, Mr. **Kyle Taniguchi** and Mr. **Aayush Thakur** won 2<sup>nd</sup> place during the Fall FSITE Meeting Poster Competition.

Beyond the recognition, our student chapter took part in the Safe Routes to School Program by conducting a walkability analysis of the neighborhood around Kimbell Elementary. This opportunity not only helped us serve our community, but also allow us to apply some of the design and safety skills we have learned in our classes. In October, we also introduced our first joint webinar and picnic with TBITE that allowed our student members a chance to interact with transportation professionals. We hope to continue this effort in the future anticipating it to be a good avenue to kick start our mentorship program as well.

At present, our student members are all engrossed in preparation for the 91<sup>st</sup> Annual Meeting of Transportation Research Board (TRB) in Washington D.C. A significant share of our members will be presenting either a paper or poster. Some of our members, who are on several TRB committees, will participate in committee meetings throughout the week. Our upcoming schedule for Spring 2012 includes a spring social, a field trip (tentatively scheduled for the Tampa Airport), and participation in USF's annual Engineering Expo. The spring social is geared towards recruiting more undergraduate students as part of our organization.

We have seen a slow but steady rise in our student membership over the past year and we hope to sustain it into the future with a diverse set of events and activities. The Engineering Expo is to be held following our spring social from February 17-18<sup>th</sup>, 2012. Our chapter is planning on organizing activities such as a live demonstration of a traffic signal, traffic model simulations, and a trivia show. This is an excellent opportunity to inspire high school students to pursue engineering careers and we hope to see some TBITE members and their families at this event.

We will be transitioning to a new officer team towards the end of this semester. The officers of USF ITE would like to extend their heartfelt appreciation for the support and guidance we have received from TBITE over this past year. We look forward to a new set of officers in the coming year and increased collaboration with TBITE.

Position	Name	E-mail
President	Mr. Vijayaraghavan (Vijay) Sivaraman	<a href="mailto:sivaraman@cutr.usf.edu">sivaraman@cutr.usf.edu</a>
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Treasurer	Mr. Aayush Thakur	<a href="mailto:aayush@cutr.usf.edu">aayush@cutr.usf.edu</a>
Secretary	Mr. Kyle Taniguchi	<a href="mailto:ktaniguchi@cutr.usf.edu">ktaniguchi@cutr.usf.edu</a>
Public Outreach Chair	Ms. Menna Yassin	<a href="mailto:myassin@cutr.usf.edu">myassin@cutr.usf.edu</a>
Webmaster (Interim)	Mr. Joseph Samus	<a href="mailto:jsamus@cutr.usf.edu">jsamus@cutr.usf.edu</a>



## FEATURED PROJECT BY DKS

### Traffic Signal Retiming for Martin and Palm Beach County

Consultant: **DKS Associates**

Client: **FDOT District 4**

In 2011, DKS Associates conducted traffic signal retiming studies and developed optimized traffic signal progression timing plans for selected corridors in Martin County and Palm Beach County. This project included 56 intersections in Martin County, spread across four different corridors and 73 intersections in Palm Beach County along 5 different corridors.

DKS field-verified existing lane configuration, intersection geometry and current traffic signal phasing for all intersections in the network. A digital photo log of all intersections was collected as part of the field verification. Link speeds were collected by performing floating car travel time and delay surveys, using Tru-Traffic software. Actual speeds of the vehicular traffic between intersections were recorded so that the modeling process would be more accurate. All signal locations were geo-referenced in Synchro models using the appropriate geographic coordination system



Intersection and link related information were entered into the Synchro models. Zones were created in the Synchro network based on Coordinatability Factors that group signals into smaller systems with similar traffic volumes and characteristics. Minimum splits for cross-streets were calculated based on minimum initial and clearance intervals. Pedestrian timings were not used in setting cross-street splits. Network cycle length/splits/offsets optimization was performed for each zone to look at the various cycle length options available and their respective performance indexes for optimized coordination within the zone. Network Cycle Length/splits/offsets optimization was performed across zones to develop optimized coordination timing plans for each analysis time period. In addition to cycle lengths, signal timing changes involved intersection splits, offsets and lead-lag sequences by time-of-day. All vehicular clearance intervals were updated to the current FDOT Yellow and All-Red Clearance interval standards.

Significant benefits were achieved to traffic flow conditions along the study corridors as a result of the new signal timings that were implemented. After studies for the nine corridors showed major improvements in traffic progression, reduction in travel times and delay, and increased travel speeds. Vehicle delay, fuel consumption and vehicle emissions were reduced as a direct result of the optimized signal progression. To demonstrate the cost effectiveness of this project, the reductions in vehicle delays and fuel consumption were converted into monetary savings to the driving public. This project is estimated to generate a total benefit of approximately \$17.5 Million over three years, representing a benefit-to-cost ratio of approximately 50:1. DKS also performed signal retiming studies for Pinellas County (80 intersections) and Marion County (78 intersections) that achieved similar positive benefits.



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### TBITE SPONSORSHIP OPPORTUNITY

#### ADVERTISE IN TBITE NEWSLETTER

Advertise your business or job postings in TBITE Quarterly Newsletter. Advertising space is available at \$50 per issue or \$150 for the year. The Newsletter is published the last week of March, June, September, and December of each year. For more information please contact any of the board members.

#### TBITE STUDENT SPONSORSHIP

The University of South Florida has a very active student chapter of ITE. We'd like to invite them all to be part of the TBITE family as well, but we need your help. You or your firm can sponsor a student for \$75 per year. This will cover the cost of student attendance at each TBITE meeting as well as the Annual Banquet. For more information please contact any of the board members.