Letter from the President
By Paul Arends, Michigan Department of Transportation

As I begin my term as president of the ITE Michigan Section and my 5th year of serving on the Executive Board, I am continually impressed by the level of commitment from so many of our members and volunteers. Selfless groups and individuals give their time to help arrange the Technical Sessions and presenters, participate on committees or the Executive Board, organize multiple golf outings, distribute scholarships, review student papers, and even keep the website up to date and assemble this newsletter. I can say with confidence that this organization would not be nearly as great or as rewarding without the support of our dedicated volunteers. Thanks to all of you!

As we move in to spring, we start to notice the grass turning green, birds chirping, and construction barrels lining the roadways. It is exciting to look forward to warmer days, outdoor gatherings, and smoother commutes. This year is also shaping up to be an exciting one for ITE. We had a great technical session in March with over 80 professionals in attendance making it one of the most attended technical sessions in recent memory. There are more events scheduled through the remainder of 2016 including: additional technical sessions, a competitive trivia night, two golf outings, the Great Lakes District meeting in Chicago, and our Michigan Section Annual Meeting in December. Please be sure to visit www.itemichigan.org for the current schedule of activities, or reach out to one of the Board members if you have any questions.

Speaking of the Golf Outing, please be sure to mark your calendars for June 2, 2016. Not only is this a fun and friendly competitive event with lots of networking, stretchable survey tape, and door prizes, but it is the single largest generator for donations to our Educational Fund. This fund is used for distribution of our annual scholarships. ITE Michigan typically gives $12,000/year to deserving engineering students across the state, so begin forming your teams now for this fun and worthy cause.

I would also like to mention a new event geared towards networking with other local transportation professionals, facilitating conversations outside the office, and a little friendly competition: The first annual ITE Team Trivia Night! This event is being held during the evening of Thursday, April 21, 2016 simultaneously at three locations in Grand Rapids, Lansing, and Detroit. There will be food, fun, prizes, and of course a trophy for the winning team! Details about the event can be found on the flier in this newsletter (page 3), or on our website.

(Continued on Page 2)
Letter from the President

In January, we welcomed Lia Michaels to the Executive Board as our new Director. Many of you may know that she was previously our newsletter editor. It is important to note that this newsletter would not be possible without the contributions from various members and sponsors. Under Lia’s watch, our section was awarded the “Best newsletter for circulation less than 250” in 2015 and 2012. In addition, Lia is a most recent recipient of the ITE Young Member Committee “Rising Stars” program. I mentioned that she was previously our newsletter editor because that role is now being fulfilled by Joyce Yassin. While she has some big shoes to fill, I have no doubt that Joyce will continue to produce an excellent and award winning newsletter.

Meet Your Director!
Lia Michaels, Hubbell, Roth & Clark, Inc.

Lia Michaels, PE, PTOE has worked at Hubbell, Roth & Clark, Inc. (HRC) for the past seven years and was recently promoted to Project Engineer in HRC’s Traffic Department. Her responsibilities include design of traffic signals and Intelligent Transportation Systems, conducting traffic signal optimization studies, performing traffic impact studies for commercial developments, and providing traffic, safety and design assistance on various projects. She received a Bachelor’s degree in Civil Engineering from Michigan State University in 2006 and a Master’s degree in Civil Engineering specializing in Transportation from Wayne State University in 2008.

Lia has been an active member of the Michigan Section of ITE since college and has been responsible for the newsletter for the past six years. With the help of the past Board members and everyone contributing to the newsletter, the Michigan Section received the District and Section Newsletter Award twice through International ITE. Lia has enjoyed her time as newsletter editor and looks forward to getting involved in other areas of the organization.

This past August, Lia received the ITE Great Lakes District Rising Star Award. She was honored to represent the Great Lakes District and attend the ITE International Annual Meeting to receive the award. She looks forward to attending future meetings and representing the Michigan Section as a Board member.

Lia has met some great people through ITE and formed some lasting friendships. She looks forward to continuing to participate in the wonderful opportunities ITE provides and encouraging other engineers to get involved.

Lia lives in Grosse Pointe Woods with her husband Marc and 1.5 year old son Victor. In her free time, she enjoys playing golf, traveling, playing the piano and spending time with family and friends.

Lia Michaels can be reached at (248) 454-6812 or lmichaels@hrc-engr.com.

Save the Date!
Education Fund Golf Outing
June 2, 2016
Mystic Creek GC, Milford

For more details, contact Aimee Giacherio at (616) 363-8181 or agiacherio@wadetrim.com
Hope to see you there!

Cont’d from Page 1

Thanks again to all of the volunteers and members for the important work you do. If you have not yet done so, I encourage you to volunteer. Any level of participation is appreciated whether it’s writing an article for the newsletter or finding a presenter for an upcoming technical session. You could also help with an existing committee, start a new one, or even run to be the next Executive Board member! Sharing your valuable expertise and experience adds to richness and diversity of our organization, and will help the Michigan Section of ITE continue to grow and provide valuable information and connections for our members.

Paul Arends can be reached at (616) 451-2663 or ArendsP@michigan.gov.
Free Trivia Night

April 21, 2016
Networking: 5:30pm to 7:00pm
Trivia: 7:00pm to 8:00pm

Come join ITE at three locations around the state for a social evening with networking and trivia. Bring your friends and make new ones. Bring your own team or we can match folks at each location. From trivial trivia to transportation, it will be a fun-filled evening for all.

Detroit
Ironwood Grill at Emagine
200 N. Main Street
Royal Oak, MI 48067
Contact: Tim Brandstetter
Tim.Brandstetter@kimley-horn.com

Lansing
Lansing Brewing Company
518 Shiawassee
Lansing, MI 48912
Contact: Carissa McQuiston
McQuistonC@michigan.gov

Grand Rapids
Gravity Taphouse Grille
3210 Deposit Dr.
Grand Rapids, MI 49546
Contact: Paul Arends
ArendsP@michigan.gov
The 4th Annual MiTEC was held at the Kellogg Center in East Lansing. The technical event kicked off on the afternoon of December 2nd, followed by the ITE Annual Meeting Banquet in the evening. The ITE Annual Meeting consisted of dinner, scholarship awards, and the announcement of the new board. The following morning featured more technical sessions related to geometric design, traffic operations, road safety, intelligent transportation systems, and transportation planning.

**Planning Committee:**
Jeffrey Bagdade, Tammi Czewski, Colleen Hill-Stramsak, Carissa McQuiston and Sara Merrill

The members of the Education Scholarship Committee selected five students to receive a $3,000 scholarship from the Michigan Section of ITE. The 2015 winners were:
- Lusanni Acosta - Western Michigan University (WMU)
- Gentjan Heqimi - Michigan State University (MSU)
- Conner Langendorf - Michigan State University
- Cody Leveski - Michigan Technological University (MTU)
- Moraima Santos Rosario - Western Michigan University

Congratulations to the winners! Information about each of the winners is provided in the following paragraphs.

Lusanni Acosta is a graduate student who received both her Bachelor’s and Master’s Degrees with good standing in Civil Engineering (majored in Transportation) from WMU. She is currently enrolled in the PhD program, at WMU, specializing in Transportation Engineering as well. Lusanni has worked on the Michigan Department of Transportation (MDOT) funded research project entitled “Evaluation of Michigan’s Engineering Improvement for Older Drivers” in WMU’s Transportation Lab. Currently, she is working as a Graduate Assistant on the MDOT's funded project on older adults entitled “Association of Michigan’s Older Adult Crashes with Roadway Features,” in the recently established Transportation Center for Livable Communities at WMU. She is a member of both the Michigan Section and the International ITE.

*Lusanni Acosta can be reached at lusanni.m.acostarodriguez@wmich.edu.*

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**Vendors:**
- Carrier & Gable
- Fleis & Vandenbrink Engineering
- itronik
- Kimley Horn
- OHM Advisors
- CDM Smith
- Hubbell, Roth & Clark, Inc.

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**Important Upcoming ITE Meeting Dates**

2016 International Annual Meeting & Exhibit
August 14-17, 2016
Anaheim Marriott, Anaheim, California
Gentjan Heqimi is a graduate student at MSU pursuing a Master’s Degree in Civil Engineering specializing in Transportation Engineering. He is expecting to graduate in December 2016. Previously Gentjan obtained a Bachelor of Science degree along with his first Master's Degree in Urban & Regional Planning with a concentration in Geographic Information Systems (GIS) from MSU. As a Graduate Research Assistant at the university he had the opportunity to work on and implement innovative GIS methods on various MDOT research projects such as the “Evaluation of the I-94 Corridor from the Indiana State Line to US-127 South” and “Application of Decision Framework for Corridor Planning within the Roadside Right-of-Way”. Gentgan is a student member of the Michigan and International ITE sections. His goals post graduation are to incorporate his knowledge in GIS, Planning, and Transportation Engineering to provide solutions to transportation related problems.

Gentjan Heqimi can be reached at heqimige@gmail.com.

Conner Langendorf is an undergraduate civil engineering student at MSU pursuing a Bachelor of Science degree. He is from Sault Ste. Marie, MI and is planning to graduate in May 2017. Conner is currently employed by the MSU Police Department as a Transportation Engineering Aide. Conner assists the Traffic Engineer with vehicle counts, changes in campus signage, and crash data collection. Additionally, Conner is helping with the Resource Center for Persons with Disabilities in adjusting the audio crosswalk signals for the visually impaired.

Conner Langendorf can be reached at langend9@msu.edu.

Cody Leveski, from Sterling, Michigan, is an undergraduate student at MTU. He will be graduating in December 2016 with a Bachelor’s Degree in Civil Engineering, focusing on transportation. Cody has spent the past three summers as a co-op for MDOT at the Bay City Transportation Service Center (TSC). While working for MDOT, he acted as a field technician that oversaw the contractors, measured and paid for pay items, and tested density and concrete in the field. He is currently studying abroad in Gold Coast, Australia at Griffith University and will return for the fall semester at MTU to finish his coursework.

Cody Leveski can be reached at cseveski@mtu.edu

Moraima Santos-Rosario grew up in Manatí, Puerto Rico and attended the University of Puerto Rico at Mayagüez (UPRM), where she began her bachelor degree of Civil Engineering. Then she moved to Kalamazoo and is now an undergraduate student of WMU’s Civil Engineering program and will graduate in April 2016. While in the UPRM she received the Sciences, Mathematics and Research for Transformation scholarship (SMART) for three consecutive years because her academic achievements.

In 2015, Moraima was recognized for her scholastic and academics achievements with the Civil and Construction Engineering Excellence scholarship. She is also an active member of the Civil and Construction Engineering Honor Society. Recently she ranked in the top 20 percent among seniors student in Engineering and accepted an invitation to become a member of the Engineering Honor Society Tau Beta Pi.

Moraima Santos-Rosario can be reached at moraimaisr@gmail.com.

News about Our Members

Katrina Kennedy with HRC passed her FE Exam. Congratulations Katrina!

If you have member news to share, please contact the Newsletter Editor Joyce Yassin at Joyce.Yassin@opusinternational.com
The ITE Spring Technical Session was held on March 10th, 2016 in Lansing, MI at MDOT’s Aeronautics Building for the first time. The day long session was hosted by Kim and Bob Lariviere and provided a wealth of information for attendees.

Michelle Mueller and Collin Castle of MDOT hit the ground running and provided an informative, high level review of a number of ITS and Connected Vehicle technologies currently being developed and explored by the Department. A number of applications and tools were discussed ranging from red light violation warning applications to fleet wide pavement condition data collection.

The discussion was followed by Bobby Gwizdz and Eric Kadbebo from the Michigan Department of State. Each provided a review of the various outreach and education activities conducted by the Senior Mobility and Young Driver Action Teams as part of the Michigan Strategic Highway Safety Plan. Activities ranged from CarFit events which assist drivers in properly adjusting their vehicles to fit their needs to data driven assessments of younger driver policies and education initiatives.

Following a short break to refill coffee and make introductions to neighbors, Rick Chelotti and Kash Revalli from Bergmann Assoc. and Ken Mazurek from Tetra Tech gave a fascinating presentation about some of the unique aspects and challenges associated with the I-75 & University Drive Diverging Diamond Interchange. The project involved close collaboration with a wide range of actors and saw the development of a unique bridge deck construction method which is currently being explored for use in future projects.

Bringing things back to older drivers, Valerian Kwigizile from WMU provided an in-depth review of an MDOT sponsored research project conducted by WMU, Opus International Consultants, and Atkins regarding the evaluation of several engineering improvements for older drivers. Each was found to be beneficial to varying degrees for both older drivers as well as drivers of all age groups, and included various signing, signal, and pedestrian countermeasures.

After a full morning of presentations and discussion, the attendees enjoyed a lunch of chicken and ground beef tacos, Spanish rice, and cookies. Feeling refreshed and taking another opportunity to network with fellow attendees, the group dove in to a series of roundtable discussions following lunch. The room was divided into four areas where topics covering complete streets (Brad Peterson and Josh DeBruyn, MDOT), special lane use (Karianne Steffen, HNTB and Stephanie Palmer, MDOT), delineation (Mary Bramble, MDOT), and roundabouts (Emily Schneider and Jason Early, MDOT) were discussed. The conversation was well rounded and an excellent way to stave off the dreaded post-lunch lull.

Heidi Spangler from MDOT continued the lively afternoon session with a presentation covering the Toward Zero Deaths initiative and some of MDOT’s low cost countermeasures. The discussion was peppered with music, videos, and a call for each attendee to be a champion in the drive to reduce fatalities and serious injuries.

Thanks to Kim and Bob for hosting another successful Spring Technical Session. Thanks to the presenters as well for taking the time to share their knowledge of the various activities and projects going on around the state.

Patrick can be reached at (248) 539-2222 or Patrick.Andridge@Opusinternational.com

Life Member Announcements

Joe Marson, PE, PTOE
Arthur R. Slanosky, PE

Life members were presented with an award at the Spring Technical Session.

A Life Member shall be considered as any member in good standing who has reached the age of 65 and has paid dues above the Student Member level for 25 years, including the current year, or has paid a one-time fee.
JUNE 26-28, 2016

2016 MIDWESTERN/GREAT LAKES DISTRICT MEETING

CHICAGO

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CALL FOR ABSTRACTS LATE 2015 ☑️ REGISTRATION BEGINS SPRING 2016

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Please join us in the heart of Chicago, IL for the ITE Midwestern and Great Lakes Joint District Meeting June 26 through June 28.

This meeting will represent 14 states, providing an opportunity for attendees to network with a diverse group of transportation professionals and to experience a robust technical program focusing on the latest trends in transportation. It will be located at the Holiday Inn Chicago-Mart Plaza River North, steps from downtown Chicago’s famous restaurants, shops, and attractions.

Visit us online at: www.chicago2016mwgite.com

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www.martplaza.com
Solving Traffic Safety Concerns with Emerging Technology
By Kiel McIntosh, Carrier & Gable

Safe and efficient roadways is one of the main goals of the traffic engineering community, whether it is from the roadway designer, signal technician, advising consultant, or even enforcement officials and first responders. The Toward Zero Deaths initiative has been adopted by MDOT in order to strive for safer roadways, but how are we going to get there? With connected and autonomous vehicles we believe that we know how we are going to end up, but it is the journey that we as engineers are trying to traverse.

We all know that connected vehicles are on the horizon. It seems that you cannot go to a meeting without it coming upon the conversation. Almost every event has some presentation or focus on either vehicle to vehicle (V2V) or vehicle to infrastructure (V2I) technology. The auto industry and local, state, and federal agencies are all ramping up to be able to support this next step in traffic safety, but we still have a long way to go.

Before we can look forward, let us take a look at what we have been doing in the recent past to make roadways safer. Over the last few years, major changes to roadway infrastructure has become increasingly difficult as budgets have become tighter. In place of completely newly designed intersections, we are seeing LED traffic signals at intersections with reflective backplates to help increase visibility to the motorist, especially during night time conditions. Adding lanes to increase capacity and increase safety is being limited, instead adding new detection to help reduce congestion and stops at intersections is becoming increasingly more common. However, smaller fixes like these can only increase safety so much. What can we do when small fixes are not enough, and the ability to afford a large scale solution is not available until further down the road?

We know that eventually the flying cars of the Jetsons, or the self-driving, fully automated cars will help solve safety concerns, but what about now? This is where current technological advances are becoming more popular. Current affordable technologies allow for our intersections to operate more aware of the vehicles travelling along its roadways, and adapt. New detection systems can detect if a vehicle has a high likelihood of running the red light and putting themselves at risk for an incident. The detection will note the vehicle speed as it approaches the intersection and send a message to the traffic controller, which will automatically place a “stop time” during the already engineered all-red interval. This prevents the cross street from receiving a green indication while a vehicle is in the intersection, decreasing the likelihood of an incident.

In the event that there is a crash at an intersection, there are also newer technologies that can decrease the likelihood that the crash results in a fatality, getting us closer Toward Zero Deaths. Emergency Vehicle Pre-emption (EVP) can be equipped at intersections and within emergency vehicles, helping the intersections be aware of an approaching emergency vehicle. This allows the intersection to pre-empt the normal traffic control and provide a green indication for the approaching emergency vehicle, reducing the time it would take for them to arrive at their destination. The faster they arrive at a location, the faster they can administer aid.

So, while we wait for the future to arrive, and continue to develop these ground breaking technologies of V2V and V2I, let’s not wait to work on solving our current safety concerns with our current emerging technologies. They offer a great compliment to our current design practices that help the traffic engineering community strive toward our goal of Toward Zero Deaths.

Kiel McIntosh can be reached at (248) 477-8700 or KielMcIntosh@carriergable.com.

This Fall!
Mark your calendars for a Tiger’s Baseball Game September 28, 2016
## 2016 Schedule of Activities

<table>
<thead>
<tr>
<th>Date</th>
<th>Location</th>
<th>Type</th>
<th>Host</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 27, 2016</td>
<td>MDOT Brighton TSC</td>
<td>Board Meeting</td>
<td>Paul Arends 616-451-2663</td>
</tr>
<tr>
<td><strong>April 21, 2016</strong></td>
<td>Grand Rapids, Lansing, AND Detroit</td>
<td>Competitive Trivia Night!</td>
<td>Tim Brandstetter 248-526-0577</td>
</tr>
<tr>
<td>March 10, 2016</td>
<td>MDOT Aeronautics 2700 Port Lansing Rd. Lansing, MI</td>
<td>*Technical Session</td>
<td>Kim Lariviere 517-373-3889</td>
</tr>
<tr>
<td>June 2, 2016</td>
<td>Mystic Creek GC, Milford</td>
<td>Education Fund Golf Outing</td>
<td>Aimee Giacherio 616-363-8181</td>
</tr>
<tr>
<td>June 2, 2016</td>
<td>MDOT Construction Field Services</td>
<td>Board Meeting</td>
<td>Paul Arends 616-451-2663</td>
</tr>
<tr>
<td>June 26-28, 2016</td>
<td>350 W Wolf Point Plaza, Chicago, IL 60654</td>
<td>ITE Great Lakes District – 2016 Annual Meeting</td>
<td>Illinois Section ITE <a href="mailto:chicago2016mwglite@gmail.com">chicago2016mwglite@gmail.com</a></td>
</tr>
<tr>
<td>August 14-17, 2016</td>
<td>Anaheim Marriott, Anaheim, CA</td>
<td>ITE International 2016 Annual Meeting and Exhibit</td>
<td>ITE International</td>
</tr>
<tr>
<td>September TBD, 2016</td>
<td>Willow Wood GC, Portland</td>
<td>Fall Golf Outing</td>
<td>Tim Haagsma 616-242-6923</td>
</tr>
<tr>
<td><strong>September 28, 2016</strong></td>
<td>Detroit Tigers Game</td>
<td>Evening Baseball Game</td>
<td>Lia Michaels 248-454-6812</td>
</tr>
<tr>
<td>October TBD, 2016</td>
<td>Kalamazoo, MI</td>
<td>*Technical Session</td>
<td>Matt Hill 313-310-8239</td>
</tr>
<tr>
<td>Dec 1, 2016</td>
<td>TBD</td>
<td>*Annual Meeting and Technical Session</td>
<td>Jeff Bagdade 248-836-8499</td>
</tr>
</tbody>
</table>

* Session Includes Board Meeting
2016 Executive Board & Committee Chairs

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