

Beaver Crossing

Oregon State University's ITE Student Chapter News

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list!**
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Calendar of Events 2017

Jun 17th—21st	Western ITE Annual Meeting—San Diego, CA
Jun 17th	Commencement
Sept 17th-24th	Welcome Week
Sept 20th	Fall Term Begins
Weeks 2 and 6	Fall General Meeting
TBD	ITE Social Night
TBD	Adopt-A-Highway

See Facebook for more details on upcoming events!

Volunteers Needed for SLS

OSU will be hosting the Student Leadership Summit in January and we need people willing to help plan the event and volunteer the day of the summit.

**Contact ITE President Kayla Fleskes via email
(fleskesk@oregonstate.edu) to get more details!**

- ◆ Help build your resume
- ◆ Get involved with ITE
- ◆ Learn valuable planning and leadership skills
- ◆ Free registration for the event



ITE Students Win HSIS Safety Paper Contest

Jason C. Anderson and Shangjia Dong take 1st place in this year's ITE HSIS safety paper contest. The ITE sponsored contest required students to request HSIS crash data, merge the data, conduct an analysis, and write a high-quality paper. Jason and Shangjia's winning paper utilized a "heterogeneity" method to analyze heavy vehicle injury severity by time-of-week (weekday and weekend crashes). They conducted a "model separation" test to confirm that disaggregating the data was permitted and, therefore, establishing that heavy vehicle injury severity needs to be studied separately. Jason and Shangjia will be receiving a 1st place plaque and have their paper published in the Fall 2018 edition of the ITE Journal.

Traffic Technology Services Comes to Oregon State

The ITE and ASCE student chapters worked together to host Traffic Technology Services (TTS). TTS is an innovative tech company that specializes in the data collection and dissemination required for connected/automated vehicle applications. TTS employs many disciplines to enhance the Nation's transportation system, such as transportation engineers, software programmers, data scientists, and business managers. On behalf of TTS, Robi Islam (a PhD graduate from Oregon State and quality engineer at TTS), discussed TTS' flagship product: Personal Signal Assist. Dr. Islam explained the process of signal prediction, the endless terabytes of real-time data involved, and provided examples of motor vehicles equipped with the technology. Personal Signal Assist also powers various automotive OEMs safety services, mobility, and environmental applications (i.e., eco-driving). Robi concluded by answering various questions from students and encouraging students to consider TTS when they graduate.



Students enjoying pizza during the TTS speaker meeting

Congratulations to Graduating ITE Members!!

Elizabeth Rios, M.S.
Zach Barlow, M.S.
Kamilah Buker, M.S.
Justine Bird, M.S.
Chen Chen, M.S.
Sogol Haddadi, M.S.
Ali Jafarnejad, M.S.

Jason Pascoe, M.S.
Keisha Villanueva, M.S.
Alexander Bird, B.S.
Peter Colton, B.S.
Kaitlyn Littleford, B.S.
Eric North, B.S.
Amy Wyman, B.S.

Congratulations to all other graduates as well!

GO BEAVSTM

Here's your sign! Adopt-a-Highway an OSU ITE tradition

This term's Adopt-a-Highway Cleanup was a success! Nine students and one faculty member participated on Saturday, May 20th as we cleaned up our two mile section of Highway 34, collecting 22 bags of trash. The Oregon Department of Transportation provides the trash bags, reflective vests, roadside warning signs, and "pickers". The Oregon State section of ITE has consistently cleaned this section of roadway; we do it almost every term. It has been a great way to give back to the Corvallis community and we will continue to do it for years to come. Everyone finished up the morning with some good pizza at DeMaggio's in downtown Corvallis as we socialized into the afternoon.

A special thank you to all that participated. Please join us in the next event and get your picture in the newsletter!



Graduate Student Appreciation Week

During the graduate appreciation week May 1-5, our ITE social media coordinator Hisham Jashami was selected as one of the twenty-seven finalists to present his research at La Sells Stewart Center. Oregon State University hosted these graduate students from across the university to showcase their research. Hisham's project involved determining why younger drivers persist in using cell phones while driving. Cell phones are one of the most common driving distractions and can negatively impact drivers in terms of their ability to maintain lane position, speed, and eyes on the road. Hisham believes that be part of an event like the showcase is a good opportunity to share our ideas, and it can provide us with professional development and network opportunities. Moreover, it is worth arriving hungry because free food and snacks will be always provided!!

Thanks to Hisham, who represented our ITE chapter and participated in the Graduate Student Appreciation Week!

Western District ITE Travel Scholarship

Congratulations to OSU ITE member Joseph Claveria for being selected as the inaugural recipient of the Western District ITE's Regional Travel Scholarship! This year, the Western District provided one travel scholarship to each of its four regions to attend the annual district meeting and Joe was selected amongst applicants from universities within the district's North region. Recipients were selected based on ITE involvement and achievement, and academic accomplishments. On top of receiving travel assistance, Joe will be recognized at the 2017 Western District Annual meeting for his selection as a scholarship recipient. This scholarship was a great help to our chapter as it helped offset travel expenses to the regional conference. Congratulations Joe!



Joseph Claveria

ITE SPRING BBQ

The 2017 OSU ITE Annual Barbeque and Potluck kicked off on Friday, June 2nd, at the Townsend Shelter in Avery Park. Members, non-members, as well as friends and family all came together to enjoy a potluck styled barbeque with all sorts of games and food. All meat and vegan choices were prepared by ITE Treasurer, Joseph Claveria. Everybody was able to enjoy a nice evening of games and food. OSU ITE thanks all who were able to participate in this event.



ITE Members, friends, and families at the annual BBQ

2017 Western District Meeting—San Diego, CA

It's that time of year again where transportation students and professionals across the Western District gather for an enjoyable conference! This year, the conference will be held in San Diego, CA and the chapter will be represented by Kayla Fleskes, Ellie Simpson, Joe Claveria, and Travis Larson. The chapter representatives will have the opportunity to network with other ITE members, and discover various transportation projects and challenges within the district. For our chapter, the biggest event of this conference is the student Traffic Bowl, which is a *Jeopardy!* style trivia competition between all universities within the Western District. The winners of this competition will go on to compete at the 2017 ITE International Traffic Bowl in Toronto, Canada. Keep an eye out in next term's newsletter for more information about what happens at the Western District Meeting and good luck to our traffic bowl team!



ITE Welcomes New Officers

Like most terms, this past April OSU ITE hosted a general meeting. However, this general meeting also included officer elections (and a guitar!). We are excited to welcome back a few officers as well as introduce some new faces. The 2017-18 Board of Officers includes:

President – Kayla Fleskes

Vice President – Jason Anderson

Secretary – Ellen Simpson

Treasurer – Joseph Claveria

Event Coordinator – Amber Meeks

Social Media Coordinator – Hisham Jashami

Outreach Coordinators – Travis Larson and Gabrielle Dilullo

In addition to our elected officers, OSU ITE has appointed chair positions. For 2017-18, OSU ITE student Hameed Mohammed is the Professional Chair, interfacing with the professional side of ITE.



ITE Members are serenaded while voting in the election

We still have open chair positions, including leadership roles on the planning team for the 2018 Student Leadership Summit!

If you are interested in becoming more involved in ITE, chair positions are a great way to get involved and they look great on a resume. Please contact ITE President Kayla Fleskes (fleskesk@oregonstate.edu) if you are interested in a chair position.



Student Research Spotlight: Jason Anderson

Large Truck Parking Deficiencies in Oregon



Jason C. Anderson just concluded an Oregon Department of Transportation project focused on large truck parking. Parking deficiencies in the context of freight is of increasing concern, yet research on this issue remains limited. Such deficiencies often lead to large trucks parking on freeway shoulders, on/off ramps, and other unsafe locations. In addition, this can prompt drivers to exceed their regulated hours-of-service (HOS) in an attempt to find safe and adequate parking. The latter results in fatigued drivers, in which crash risk is vastly increased.

Therefore, utilizing a stated-preference survey administered to drivers that deliver goods in the Pacific Northwest, driver behavior and opinions with regard to truck parking deficiency were gathered. Nearly 75% of the surveyed drivers indicated they experience truck parking issues. Further, using Oregon crash data, a hot spot analysis was conducted to detect a cor-



Jason Anderson

relation between crash hot spots and existing truck parking facilities. It was discovered that hot spots, each with a high level of confidence, are present near parking facilities and/or along stretches of highway with no parking facility. Upon establishing crash hot spots, a truck parking demand assessment model was applied. This model accounts for several factors, such as the proportion of short-haul to long-haul trucks, proportion of demand to rest areas and truck stops, and most importantly, HOS. The assessment results indicate that severe parking shortages are present at rest areas and truck stops along the study corridor. To conclude, a crash harm analysis was done to quantify the cost of assumed parking related crashes. These costs included monetary values related to damage, medical bills, loss of life earnings, pain and suffering, etc. Crash harm showed that parking related crashes totaled greater than \$70 million.

Findings suggest a need to address the truck parking deficiency in Oregon. A practice-ready solution may include the use of Oregon's 511 Traveler Information System, in which truck drivers can call to receive information regarding parking availability at upcoming facilities. In addition, the use of ITS signage can be implemented across the state to disseminate parking availability updates to drivers.

Know of any other student research projects? Submit them to ITE to publish in the next newsletter!

Contact ITE secretary Ellie Simpson at simpse@oregonstate.edu for more details!

Official Newsletter
Publication of the Oregon
State University Student
Chapter of the Institute of
Transportation Engineers

Help Us Plan the Student Leadership Summit!

**Get involved with ITE and get the chance to interact with professionals and other students in the Western ITE Section!
Volunteer and receive free registration to the event!**

SLS is an event designed to promote the development of professional and leadership skills among students in the Western District. The 2018 SLS, which will be the first summit held outside California, will continue to build upon the previous successes of the summit and bring together approximately 120 students from 40 universities across Western ITE to enhance their academic and professional success.

Contact ITE via email or Facebook to get more details or email ITE President Kayla Fleskes at fleskesk@oregonstate.edu

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Beaver Crossing is written and produced by Ellie Simpson a volunteer of the OSU ITE Student Chapter. Comments and questions about this publication can be sent to fleskesk@oregonstate.edu. **Join the mailing list and stay up to date on all activities by emailing us!**