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# Student Chapter Annual Report

OREGON STATE UNIVERSITY  
INSTITUTE OF TRANSPORTATION ENGINEERS

APRIL 1<sup>ST</sup>, 2016 | MARCH 31<sup>ST</sup>, 2017

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## CHAPTER DETAILS

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### 1. Student Chapter Officers

President: **David Covey** (April 2016 – December 2016)

Interim President: **Masoud Ghodrat Abadi** (December 2016 – April 2017)

Vice President: **Masoud Ghodrat Abadi** (April 2016 – December 2016)

Secretary: **Alireza Mostafizi**

Treasurer: **Jason Anderson**

Webmaster: **Kayla Fleskes**

Activities Coordinator: **Shangjia Dong**

Student Outreach: **Amber Meeks**

Professional ITE Chair: **Hisham Jashami**

Community Service Chair: **Joe Claveria and Dylan Horne**

Engineering Student Council Rep.: **Mostafa Estaji**

### 2. Student Chapter Membership

Number of Student Chapter Members: **54**

Number of Student Members of the Institute: **35**

Number of Students eligible to be a Student Member of the Institute: **54**

Number of faculty members who are current ITE members: **1**

### 3. Information of Transportation Engineering Enrollment

Number of undergraduate students (sophomore – senior years) in your academic department: **467**

If not Civil Engineering, specify department: \_\_\_\_\_

Full Time: **467**

Part Time: **0**

Does your curriculum allow an undergraduate student to major or minor in Transportation?

Yes  No

Number of graduate students in Transportation: **33**

Full Time: **33**

Part Time: **0**

### 4. Summary of Student Chapter Activities

Technical Presentations: **41**

- Speaker Meetings: 4
- General Meetings: 4
- Conferences & Meetings: 8
- Officer Meetings: 25

Field Trips: **5**

Public Service & Community: **5**

Promotion Among Student Body: **8**

Social & Sports: **9**

*See pages 6-33*

**5. Roster of Student Chapter Members**

*See page 38*

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## OPENING MESSAGE

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We are so proud to stand up and reflect on what we achieved as a group during this past year. We strongly believe that the OSU ITE had an active and successful year. During the past 12 months, we successfully held four speaker meetings with ODOT, Citilab, KAI and DKS. We regularly held one general meeting each quarter and for the very first time, we assigned chair positions to student members, to more actively engage even more student members. We frequently held social events, including the end of the year BBQ, thank-you dinners for volunteering, a movie night, dodgeball, and bowling. We expanded our social media profile by keeping our Facebook page active and up-to-date. We successfully held three adopt-a-highway events and were awarded a sign by the Oregon Department of Transportation (ODOT) along Highway 34. We just recently renewed our adopt-a-highway contract for an additional two more years.

We coordinated the logistics for bring 23 student chapter members to the TRB Annual Meeting, 21 student chapter members to PacTrans Conference, 4 officers to Western ITE Annual Meeting, 3 graduate students to Pactrans-Tongji symposium, and 2 student chapter members to the Western District Student Leadership Summit. We were actively involved with regional and national events. For the first time since 2011, we won the 1<sup>st</sup> place at ORITE Traffic Bowl and for the second consecutive year, we placed 2<sup>nd</sup> in the Western ITE Traffic Bowl. We were also short-listed to present our work in the Traffic Control Devices Challenge during the TRB Annual Meeting. We engaged in a variety of technical and professional development opportunities, including completing the QC Advisory Speed Project and editing more than 30 COTA papers. Overall, we raised over \$4,200 from April 2016 to March 2017 another record for the chapter. We would like to emphasize that all these accomplishments could not have been achieved if it was not for the contribution of every member.

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## SPEAKER MEETINGS

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Traditionally, OSU ITE hosts one speaker meeting per term. While no speaker meeting was held during the summer quarter, two meetings were scheduled during fall term. This was accomplished by partnering with the OSU American Society for Civil Engineers (ASCE) student chapter. A grand total of four speaker meetings were organized and hosted by the chapter.

➤ **Oregon Department of Transportation (ODOT), spring 2016**

Becky Knudson, Senior Transportation Economist for ODOT's Transportation Planning & Analysis Unit, presented to a group of enthusiastic students. She educated students about the "Big One" – the looming Cascadia Subduction Zone earthquake – and provided great insight into the preparation that agencies throughout Oregon have undertaken. Becky took questions throughout the 60-minute presentation and reserved time at the end to meet with eager students one-on-one. Many



**Speaker Meeting: ODOT | spring 2016**

students were unaware of the direct link between the economy and the transportation system, therefore the presentation also informed students of the many possibilities that lie within the field of transportation engineering and planning.

➤ **Citilabs, fall 2016**

On Sep 29<sup>th</sup>, Luke Cheng, regional director of Citilabs, joined OSU ITE to talk about their latest product, Cube. Cube is an open transportation and land-use modeling platform which aims to inform transportation planners and engineers in terms of decision making. Cube is known to be the only platform incorporating all three aspects of transportation planning, engineering, and land-

use. Cube is also famous for an amazing feature, called cube cloud which allows the modeler to utilize the computational resources backed by Amazon Web Services (AWS).

➤ **Kittelson and Associates, joint with ASCE, fall 2016**

ITE and ASCE student chapters partnered together on November 29<sup>th</sup> to bring in Kittelson & Associates. Pat Marnell, an OSU ITE alumni, brought with him two more beaver grads! Jamestaun Kraupp received his B.S. in Civil Engineering from OSU as did Kenny Ota. Pat a Traffic Engineer, Jamestaun a Civil Designer, and Kenny a CECOP intern at the time, discussed current projects and what it is like to work for Kittelson. For Jamestaun, this was his first time presenting for OSU ITE and ASCE. Many attended and made this a great event.



Speaker Meeting: Citilabs | fall 2016



Speaker Meeting: KAI | fall 2016

➤ **DKS and Associates, winter 2017**

During the winter term, four Oregon State alumni returned to campus for a speaker meeting. Jasmine Pahukula, Rachel Vogt, Sina Vadaei and Brian Copeland from DKS Associates teamed up with OSU ITE to discuss some of their current projects and how to make the transition from being a student to working full time in transportation. The projects ranged from a long range planning project at a city level to detailed design work for a new expressway. There was also discussion with OSU ITE students on what the future of transportation might look like and how

DKS Associates is trying to address that future in their current designs. After the presentation, students had the opportunity to network with the alumni and ask more detailed questions.



Speaker Meeting: DKS | winter 2017

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## CONFERENCES & MEETINGS

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Each year OSU ITE manages the logistics for sending student members and officers to a diverse collection of conferences and meetings. The chapter is proud to see so many students participate in these events. This year the OSU ITE group presence at conferences was the largest in chapter history.

➤ **EMI/PMC, spring 2016**

The Annual Engineering Mechanics Institute conference 2016 (EMI 2016) and the quadrennial Probabilistic Mechanics and Reliability conference 2016 (PMC 2016) welcomed hundreds of elite civil and mechanics engineers this year to beautiful campus of Vanderbilt University in Nashville, TN. They featured 600 presentations in 60 mini-symposia, organized in



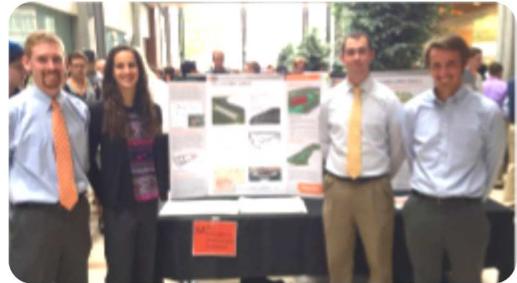
**EMI/PMC | spring 2016**

parallel technical sessions. The presentations covered a wide range of multidisciplinary subjects ranging from structural resilience of infrastructures to recovery and response to the natural hazards. Representing OSU ITE, this year Shangjia and Alireza presented their research at the conference. Alireza focused on the transportation network's tsunami hazard resilience, and Shangjia went over the assessment of interdependent infrastructure and failure processes using percolation phenomenon and cascading behavior.

➤ **OSU Undergraduate Engineering Expo, spring 2016**

This year's Undergraduate Engineering Expo was host to over 220 design projects. The 17<sup>th</sup> annual event showcases projects across the College of Engineering, including several projects spearheaded by members. This year, OSU ITE's Social Media Coordinator Kaya Fleskes and her

teammates Kevin Coffey, Nathan Jones and Anthony Quinn won the CH2M Hill Multidisciplinary Award. Their project involved creating a campus design for the new OSU Cascades 4-year Campus in Bend, OR. The team integrated transportation, traffic, geotechnical, and structural designs in a comprehensive campus plan.



**Undergraduate Expo | spring 2016**

➤ **Western ITE District Annual Meeting, summer 2016**

OSU ITE traveled to Albuquerque, New Mexico during July for the 69<sup>th</sup> ITE Western District Annual Meeting. ABQ, or the Burque, as we called it, offered spectacular views atop Sandia Crest,



**Western ITE | summer 2016**

a plethora of shopping at old town, and mouth-watering food on every corner. Still one question remained, a question that divides the city...red or green? This great rivalry refers to the two types of chile sauces used in Mexican eats around the Burque.

Red or green was also the theme of this year's Awards Banquet where southwestern attire and dancing was highly encouraged. OSU ITE participated by dressing in red or green and sporting cowboy hats proudly. Western ITE officers and other guests, like Randy McCourt, President of DKS Associates really loved the outfits.

During the Awards Banquet, OSU ITE was announced as the honorable mention for the Student Chapter Award. The award is based on the annual report submitted by each chapter showcasing their involvement and activities for the past year.

Last year, OSU ITE was the No. 1 seed after the preliminary quiz at the ITE Western District Traffic Bowl. This year, a new team formed and they hit the books. After being seeded No. 5, the team had some ground to make up if they wanted to make the final round. The first round of competition was dominated by the Beavers. In the final round of the traffic bowl Cal Poly SLO, OSU, and Oregon Tech were featured. This was same final three as the year prior. Oregon State and Cal Poly battled back and forth until the end. A few hesitations costs the Beavers some points going into final jeopardy and Cal Poly SLO would take the Beavs down again. Second place nonetheless! We were proud of our consistently strong performance over the past few years.



**OSU Traffic Bowl 2<sup>nd</sup>  
Place at Western ITE**

➤ **PacTrans-Tongji Graduate Students Symposium, summer 2016**

August 1<sup>st</sup> and 2<sup>nd</sup>, PacTrans welcomed Ph.D. students from OSU, University of Washington, and visiting Tongji University for a symposium on Transportation Science and Technology. In total,



**Pactrans-Tongji Symposium | summer 2016**

25 students spent time learning about their peers' research with presentations and Q/A sessions. OSU ITE members Masoud, Jason, and Harith represented OSU at this event. Topics included active traffic control, transportation data modeling, and autonomous/connected vehicles. Networking with a much larger school, over 120 Ph.D. students in the Tongji Transportation department, provided our students with great professional development and future relationships.

➤ **PacTrans Region X Conference, fall 2016**

The yearly trip to Seattle serves as one of the biggest conferences for our students. This year saw 21 OSU ITE students in attendance, six more than last year! Each year, almost native Corvallis people, Corvallisites, get to experience the “big city” and a glimpse into the lifestyle of native Seattle people, or as they are sometimes referred to as, Seattleites, pronounced like “mites”.

PacTrans, short for Pacific Northwest Transportation Consortium, is the Regional University Transportation Center (UTC) for the Federal Region 10. The UTC program has been in place since 1987, is congressionally-mandated, and gives awards and grants



**PacTrans Conference | fall 2016**

to colleges across the nation. The U.S. Department of Transportation said this:

“Internationally recognized for their capacity to lead, innovate and educate, UTCs continue to enhance and transform our transportation system, keeping it in step with our nation’s economic, environmental and societal goals.”

Each year the conference is held at the University of Washington’s campus. This is a time for the Pacific Northwest’s transportation community to network and share. The day featured two speaker



**PacTrans Conference | fall 2016**

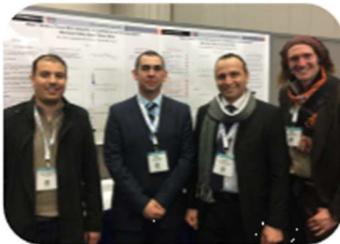
sessions, a hybrid poster display, and of course free lunch. Many of the OSU ITE students participated in the hybrid poster session which highlighted research on safe users, infrastructure, and operations.

Students gathered the next day for the student only conference. Speakers were Mustafa Mohamedali, engineer at WSDOT and Yegor and Myca from INRIX, a global leader of connected

car services and movement analytics. Over 10 posters from OSU were presented during a poster competition with a chance to win recognition and cash prizes. OSU ITE member, Hisham Jashami, was the victor taking 1st place and winning a big check! His winning poster focused on perceptions of distracted driving by young drivers in the Pacific Northwest.

➤ **The TRB 96<sup>th</sup> Annual Meeting, winter 2017**

The Transportation Research Board (TRB) 96<sup>th</sup> Annual Meeting was held on January 8-12, 2017, at the Walter E. Washington Convention Center, in Washington D.C. Approximately, 14,000 people with various transportation skills and from all across the globe attended this major event. This year, OSU ITE coordinated the logistics for OSU to bring 23 student chapter members to this meeting. This meeting was far beyond an ordinary conference as it was one of the largest gatherings in the field of traffic and transportation engineering, which covered all different aspects of transportation. From cutting-edge research to practice-ready studies, from lectern presentations to poster sessions and from technical workshops to professional exhibitions, this event was a tremendous opportunity for our members to expand their knowledge of transportation.



The TRB 96<sup>th</sup> Annual Meeting | winter 2017

The TRB Annual Meeting covered all transportation modes, with more than 5,000 presentations in nearly 800 sessions and workshops addressing topics of interest to all attendees – policy makers, administrators, practitioners, researchers, and representatives of government and academic institutions. OSU ITE members thrived at this year's meeting. A total of 12 student members

presented their work in workshops, lectern/poster sessions and committee meetings. In addition to the research presentations this year, for the first time, a team of OSU ITE members were short-listed to present their ideas for the Traffic Control Devices Challenge, sponsored by the Traffic Control Devices Committee (AHB50).

➤ **Student Leadership Summit (SLS), winter 2017**

In January, OSU ITE students trekked to Fullerton, California to attend the ITE Western District's 4th annual SLS held at California State University Fullerton. SLS is an event used to connect

Western ITE universities and establish a network within the Western ITE district. During this time, students also learn about current projects and applications in transportation engineering. This year, the event featured an autonomous vehicles panel, which reviewed how engineers plan to regulate these cars on

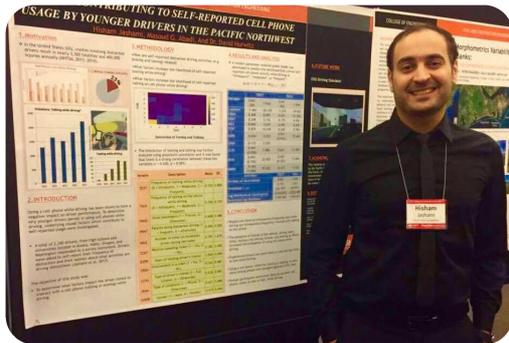


**SLS | winter 2017**

the roadway. Students were given the task to create an argument for or against the implementation of TuffyTown. TuffyTown was based on a real-life traffic diversion project that planned to separate a major roadway along the university to create a pedestrian island used for student housing and businesses and divert traffic to the surrounding streets. In all, OSU ITE students were thankful for the opportunity to connect with ITE Western District members and universities.

➤ **OSU Graduate Research Showcase, winter 2017**

This year's Graduate Research Showcase was host to over 100 projects across the College of Engineering on February 17. ITE Professional Liaison Hisham Jashami had the chance to present at CH2M HILL Alumni Center. His research project involved determining the factors that



contribute to self-reported cell phone usage by younger drivers in the Pacific Northwest. The event included professional development workshops in the morning, poster presentations in the afternoon, and industry partners tabling throughout the day.

**Graduate Expo | winter 2017**

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## FIELD TRIPS

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As part of the ongoing promotion of transportation engineering to the general student body, OSU ITE organizes and gives students, members, and its' officers great opportunities to interact with industry through field trips. This year OSU ITE followers had the opportunity to attend six different and unique field trips.

➤ **25th Annual Oregon ITE Traffic Bowl, fall 2016**

The year was 2011...Oregon State had just won the Oregon ITE Traffic Bowl. Four years have come and gone, and OSU had some strong showings, but never did they complete their quest for gold. 2016 was a something special! OSU ITE had again placed 2nd at the Western District annual meeting over the summer and that same team came to Portland with something to prove.

The first round of competition started off shaky as the team adjusted to the atmosphere. By the end, OSU had a sizeable lead and advanced to the final round. Defending champions UW had already been eliminated. OSU and Portland State put on a show for those in attendance during the final round. Oregon Tech hung on for only a little while. The entire round, PSU was leading and OSU was a close second. After OSU answered a double jeopardy question incorrectly, they trailed by several hundred points going into final jeopardy.



**OSU ITE 1<sup>st</sup> Place Team at  
ORITE Traffic Bowl**

In perfect Jeopardy style, OSU won the night by answering the final jeopardy question correctly and wagering all their points! Portland State had wagered just enough to win by 1 pt, but their answer was incorrect! Oregon State finished 700 points ahead of PSU and brought home the trophy (and big check) ending a four-year drought.

➤ **Oregon ITE Luncheon: Smart Cities, fall 2016**

October 20<sup>th</sup>, 2016, three officers attended the Oregon ITE luncheon to explore the Smart Cities grant proposal prepared by the City of Portland. Peter Koonce, traffic signals, street lights, and ITS manager for the Portland Bureau of Transportation, discussed the city's experience applying



**ORITE Luncheon | fall 2016**

for the grant. Also, Ben Pierce from HDR, the chief architect and a key contributor to the successful Smart City application for the city of Columbus, Ohio also shared his experience in making his city smarter. With limited budget, instead of improving everything, they focus on several main societies. And one big lesson learned from his presentation was: transportation is not the problem, rather it is the solution.

➤ **ODOT: Play on the Grade, fall 2016**

As we have eagerly anticipated for some time, US 20 Pioneer Mountain-Eddyville project is finally finished. The \$365 million project which initiated in 2005. "Play on the Grade" was an event organized by the ODOT to celebrate the completion of the project, and OSU ITE joined the celebration by cruising/walking on the freshly paved road. In addition,



**ODOT Field Trip | fall 2016**

during the walk, OSU ITE members talked to quite a few engineers and construction managers of the project, listening to challenges they have faced during the project, and the way they tackled them. Also, they visited the different features of the project, including a massive animal crossing, water drainage systems, bridges, etc. Now, people can commute faster and safer. OSU ITE was also featured in the local newspaper from this field trip.

➤ **Public Transportation Design, joint with AREMA, fall 2016**

In November, the OSU ITE and AREMA student chapters teamed up to take students on a field trip as part of a Public Transportation class. Portland, one of the top 10 best cities (US News) for public transportation, was the destination and the goal was to travel only by public transit. Twelve students took part in the all-day event. The journey began at the Amtrak station in Albany, OR where students experienced a two-hour train ride north to Portland's



**Public Transportation Field Trip | fall 2016**

Union Station. The group took various light rail and streetcar lines around the city to scope out the best place for lunch. In the afternoon, the group took a tour of the Oregon Rail Heritage Center's museum in downtown Portland. The trip culminated with a train ride home.

➤ **Oregon ITE Winter Workshop, winter 2017**

On February 27<sup>th</sup>, OSU ITE student representatives attended the Oregon ITE annual winter workshop. It was a full day of events with distinctive invited speakers sharing their experience with various projects. Five different topics were covered in the sessions: Technology, Funding, Agency Cooperation, Policy, and Just Opened. It was a great opportunity to



**ORITE Winter Workshop | winter 2017**

see how the knowledge gained in classes can be applied to different real-world projects, which can in turn help us form an interest in certain topics in the classroom. Being able to interact with professionals and network with fellow engineers added a great value to this experience.

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## PUBLIC SERVICE & COMMUNITY

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One of the most rewarding aspects of the OSU ITE are events that result in providing meaningful value to the public. The list of events include technical projects and fundraising opportunities. This year the Chapter participated in two major fundraising activities and continued the adopt-a-highway program formally endorsed by ODOT which was awarded with a pair of traffic signs along highway 34, the major corridor to Corvallis and as a result OSU.

➤ **Adopt-a-Highway, spring 2016**

Adopt-A-Highway allows students to serve the Corvallis community, gives them a chance to get out of the office, and arguably the most important, offers several hungry students free American Dream pizza (a Corvallis staple). Spring Term trash pickup was a success. The two-mile stretch of roadway was divided into four equal legs with two teams walking east and two teams walking west to cover our area of responsibility. Nearly 20 bags were filled and left the students feeling proud of their contribution. A messy area indeed, but it provides job security for our OSU ITE member volunteers.



**Adopt-a-Highway | spring 2016**

➤ **Adopt-a-Highway, summer 2016**

The fourth installment of the Adopt-a-Highway program could not have gotten any more exciting as completing this event meant only one thing. Two of our very own “OSU ITE Student Chapter” signs on the highway! As usual the task involved cleaning a two-mile section of highway divided into four legs. In this event our nature enthusiasts produced a total of 18 bags of collected trash. Of course, there was free American Dream Pizza to mark the end of a successful event.

➤ **Horizontal Curve Assessment Project, fall 2016**

Advancement of the art and science of transportation along with the professional development of OSU ITE members are two of the principle objectives of OSU ITE. To achieve this goal, OSU ITE constantly seeks new opportunities for its members to get involved with professional activities and engineering projects.

This year, we participated in a data collection and processing for a statewide horizontal curve assessment project in Ohio. This was part of a huge project which



**Curve Project | summer 2016**

requires States to update their signage to match the vehicles operating on the roadway today. This project used the Rieker C.A.R.S. system which is the cutting edge technology for the assessment of curve advisory speeds. Members, officers and the Chapter's faculty advisor all volunteered several hours of their time to make this project a great success. During the month of October, 13 people spent total of 113 hours on data reduction and analysis to complete this exhaustive project. Of course, this process was not started until after a comprehensive preparation workshop and multiple hours of meetings with experts from Quality Counts. This opportunity not only provided students with a valuable experience, but it also helped chapter to raise a considerable amount of funding to support its future activities.

➤ **Adopt-a-Highway, fall 2016**

On November 19<sup>th</sup>, OSU ITE partnered with the OSU ASCE Chapter to clean up the shoulder on Oregon 34 outside of Corvallis. This round marked the 5<sup>th</sup> clean-up. Attempts at making this project a reality had been made for years. Finally, OSU ITE has their signs! Signs are now located at either end of the two mile segment indicating that the OSU ITE has officially adopted this section of highway. Heading into Corvallis, our sign is located near the pedestrian



**Adopt-a-Highway | fall 2016**

bridge at Colorado Lake Dr. Leaving Corvallis, our sign is located on the right shoulder just after exiting the Vanburen Bridge. OSU ITE is proud to have adopted this section of highway and has established this community service project as a regularly reoccurring event.

ODOT provides the trash bags, reflective vests, roadside warning signs, and “pickers”. Twelve students participated, and collected 23 bags of garbage. We received numerous encouragements and thankyou's from the community as they pass by on the multi-use path. Most of the students enjoyed American Dream Pizza together after the event. The student chapter will continue to clean up this section of OR 34 each term.

➤ **COTA paper editing, winter 2017:**

The Chinese Overseas Transportation Association (COTA), established in 1996, is a non-profit professional organization with members who work and study worldwide. Each year OSU ITE receives many journal articles written by COTA members, mostly students, who are looking for publication. OSU ITE carefully reviews the papers often providing full English rewriting to add

clarity to strong technical work. This year 31 total papers were reviewed by 16 OSU ITE members, the most ever in history of the Chapter.



**Chinese Overseas Transportation Association**

## PROMOTION AMONG STUDENT BODY

### ➤ Officer Transition Summit, spring 2016

Several OSU ITE officers attended this 2-hour event hosted by SLI. SLI “provides opportunities for students to focus on Civic Engagement & Service, Leadership Development, Global Citizenship and Community Building, Involvement & Celebration. This event in particular was useful in providing the Chapter



**Officer Transition Summit | spring 2016**

with ideas on how to transition officers for the new year. Officer roles, goal setting, recruitment plans, and constitution review were all topics discussed.

### ➤ General Meeting, spring 2016

General Meetings have returned to OSU ITE in an attempt to provide additional value to our student membership and to engage and recruit new members at the graduate and undergraduate level.. The meeting agenda included a discussion of upcoming events during the summer and fall



**General Meeting | spring 2016**

quarters. Fundraising activities and their importance as a opportunity for professional development and a force multiplier for our ability to send more students to events. The chapter received such positive feedback, that General Meetings the board has committed to coordinating a general meeting once per quarter moving forward in addition to evening speaker meetings and other activities.

➤ **Cookies and Clubs, summer 2016**

Every year the College of Engineering (COE) hosts a welcome event for new students. This year the event took place in front of the newly constructed Johnson Hall. At this event students are exposed to all of the COE endorsed clubs. Tables, exhibits, vehicles, and candy are used to attract as many students as possible. The OSU ITE booth featured toy



**Cookies and Clubs | summer 2016**

Lamborghinis, a flashing traffic signal, a picture array from past events, and a BIG check from traffic bowl competition. More than 70 students signed up interested in additional information about OSU ITE!

➤ **2017 Traffic Control Devices Challenge, summer 2016**

The Chapter's first year participating in the highly anticipated Traffic Control Device (TCD) Challenge began in early June. Several students participated in brainstorming and conceptual



**2017 TCDC | summer 2016**

development. After four months of work, the Chapter produced a conceptual paper describing their vision for improving right of way negotiation between pedestrians and autonomous vehicles. This included solutions for the short-term, mid-term, and long-term. Each solution

was organized into improvements to infrastructure, vehicles, and pedestrians. The design was ranked top 10 nationally and the OSU ITE team presented their results in the 2017 TRB Annual Meeting.

➤ **General Meeting, fall 2016**

Benjamin Franklin said: “by failing to prepare, you are preparing to fail”. We consider preparation a must for any of the numerous OSU ITE activities that take place each year. This year, 23 students from OSU attended TRB. Just like any other year, OSU ITE took all responsibilities for coordinating the trip.



**General Meeting | fall 2016**

Cross-country travel for 23 students is challenging and overwhelming for first timers. To put people at ease and provide valuable advice for the trip to D.C., a preparation meeting was held on Dec. 6th. Topics included tips from the TRB webinar, hotel reservation and flight itineraries, and developing a contact list. The meeting worked so well, that not even the unprecedented snow storm Corvallis had that weekend could stop us from attending.

➤ **College of Engineering Student Clubs Officer Retreat, fall 2016**

This fall, OSU ITE officers attended the Engineering Student Council (ESC) Officer Retreat. The purpose of ESC “is to coordinate and support the activities of engineering student organizations,



**COE Officer Retreat | fall 2016**

and the students therein.” The retreat, held on campus at the LaSells Stewart Center, featured important speakers from across the university with sessions ranging from how to get club funding at OSU to how to be a better leader. This was the first year that retreat had taken place. It also provided an opportunity for officers of different clubs from across the College of Engineering to interact and network.

➤ **Clubs Orientation**

To bring in the new school year, OSU held a Student Organization Orientation that all OSU student organizations were required to attend – Jason and David represented OSU ITE. The orientation was constructively informative by presenting methods in which OSU ITE could expand their presence on campus and receive additional funding. By recording activities through an online portal, OSU ITE has the opportunity to send more students to conferences. The orientation also stressed something that all students and professionals should abide by; specifically, respect your peers and if any questionable acts take place within your student organization, be sure to speak up and inform the proper people.

➤ **General Meeting, winter 2017**

This term's general meeting was a success! OSU ITE officers and members gathered for pizza, and with elections around the corner, current OSU ITE officers took this time to summarize a year of success. Topics included the 2nd place performance at the Western District ITE Traffic Bowl, the guest speakers OSU ITE brought to campus (several of which were Beavers themselves), various social events, students and their vast TRB success this year, and the money OSU ITE fundraised throughout the year. With

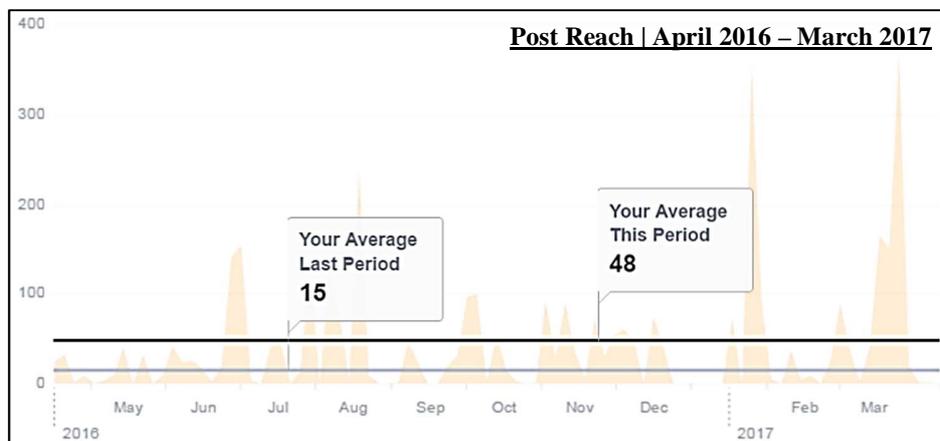
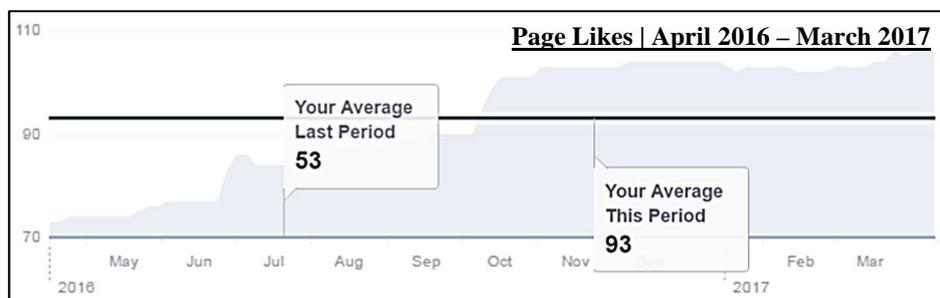


**General Meeting | winter 2017**

elections just a couple weeks away, officers talked about their year of experience and described their duties, hopefully inspiring the next generation of chapter leadership.

➤ **OSU ITE Social Media and Website:**

The Chapter uses Facebook to communicate to its members frequently. The Facebook presence has proven to be successful in reaching our members. Since last April, the page total likes and post reach have increased considerably compared to those of the previous year. Facebook has served as good outlets to post about the Chapters speaker meetings, general meeting, conferences, and social events.



➤ **Beaver Crossing – Quarterly Newsletter:**

Each term, the Chapter publishes a newsletter that summarizes all the activities that happened. Members, faculty, and a few people outside the university are able to view the final publication. The newsletter is forwarded to the Public Information Specialist for the School of Civil Engineering, for all students in all majors to see what OSU ITE has accomplished.



Examples of OSU ITE Newsletters

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## SOCIAL & SPORTS

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➤ **End of Year Summer BBQ, summer 2016**

Back in June OSU ITE celebrated an amazing 2015-2016 school year at Avery Park. The celebration was an unofficial graduation party for all the graduates and a chance for all the members with their families to relax. With over 30 people in attendance the BBQ was a huge success. The BBQ included great food and games. This event is always one of the highlights of the year.



**End of Year Summer BBQ | summer 2016**

➤ **Movie night, spring 2016**

With finals coming up, the Chapter decided to do something fun for its members and family. To create a fun and relaxed atmosphere, OSU ITE hosted a movie night on May 19<sup>th</sup> and unanimously chose Zootopia. Determined to prove herself, Officer Judy Hopps, the first bunny on a police force, jumps at the opportunity to crack a case, even if it means partnering with a fox. Besides having fun, one take away message of the movie was “You can be anything!”

➤ **Memorial Union Food Fair, spring 2016**

A break from intensive study on Thursday with free food and drinks provided, who would not want that? On May 12<sup>th</sup>, MU Retail Food Services provided over 30 tables filled with food and drinks in MU plaza, as well as prizes and the MURFS Wheel of Fortune! OSU ITE members took advantage of this social event and joined the crowd to celebrate this annually MURFS Food Fair. A large selection of food was offered, hot dogs, burgers, chips, drinks, etc.



**MU Food Fair | spring 2016**

➤ **Curves Project Thank-You Dinner, fall 2016**

With the help of OSU ITE volunteers, the Ohio DOT curve assessment project finished with a high quality deliverable. The effort of the volunteers will make driving much safer on highways in Ohio, and as a consequence funds were raised to support OSU ITE future activities. In thank our volunteer members, OSU ITE offered a HUGE dinner at the Old Spaghetti Factory® on December 2<sup>nd</sup>. A group of 10 hungry beavers converged at the restaurant and were seated around a long table with a plethora of delicious food. They talked about life, made jokes, laughed, and relaxed a little. Nothing is better than having a fantastic dinner with your friends after working hard for many weeks.



**Thank-You Dinner | fall 2016**

➤ **OSU Traffic Bowl, fall 2016**

This term, OSU ITE decided for the first time to host their own version of Traffic Bowl. Four teams competed in two intense rounds of the Jeopardy-style traffic engineering game for the opportunity to win the grand prize of \$100. In addition to having some fun, this event was also used as a practice run for the Oregon ITE Traffic Bowl, which occurred a few weeks



**OSU Traffic Bowl | fall 2016**

later. The OSU Traffic Bowl competition came down to the wire, but in the end the grand prize went to ITE members Kayla, Kamilah and Zach (team KKZ).

➤ **Cosmic Bowling, fall 2016**

As students get back into the swing of academic responsibilities, OSU ITE hosted an all-expense paid Welcome Back Cosmic Bowling event at the OSU Memorial Union on September 23<sup>rd</sup> to blend in the remains of summer fun. Filled with friendly conversations and practicing bowling



**Cosmic Bowling | fall 2016**

skills, this event gathered current and prospective OSU ITE Members for an entertaining late evening. This event provided an opportunity for current members to catch up with one another and prospective students to get to know OSU ITE members on a more personal level. This event was well attended as OSU ITE needed to use half of the available bowling lanes to accommodate our attendees!

➤ **Pizza Party, fall 2016**

In mid-November, Hisham Jashami our professional OSU ITE chair decided to share his victory after he was placed first in the poster competition at the PacTrans Student Conference in Seattle on October 15<sup>th</sup> 2016. So, he brought pizza and drinks for all OSU ITE members in the Graduate student office.

As he mentioned “I chose this time because it is a good opportunity for taking a small break from the intensive



**Pizza Party | fall 2016**

study in the middle of fall term and releasing some stress by gathering everyone to have lunch together”. This win chalks up another first place finish for OSU ITE in recent events.

➤ **Basketball Night, winter 2017**

On February 2<sup>nd</sup>, ITEers enjoyed a wonderful basketball game between the OSU Beavers and the



**Basketball Night | winter 2017**

Arizona Wildcats. The Beavers started off the game very well, and were leading in the first quarter. In the second quarter however, the Wildcats came back into and ended up winning 71 to 54. Despite the loss, OSU

ITE showed its support for Beaver Athletics by cheering for the team.

➤ **Intramural Sports, winter 2017**

On February 25<sup>th</sup>, as part of winter quarter intramural activities, 12 OSU ITE members took place in a breathtaking Dodgeball tournament. Enough people signed up so that two separate OSU ITE teams could compete.



**Intramural Sports | winter 2017**

Each game included three sets and each team had three games. While no OSU ITE team advanced, we had a lot of fun as we socialized and spent time together.

## STUDENT AWARDS AND ACHIEVEMENT

### Masoud Ghodrat Abadi, PhD Student

- ENO FLD Conference Fellowship
- The Michael Kyte Student of the Year
- Safe Driving Public Service Announcement Competition
- Member at TRB Committee on Education and Training



### Jason Anderson, PhD Student

- Richard and Lilo Smith Graduate Fellowship
- PacTrans Outstanding Student of the Year



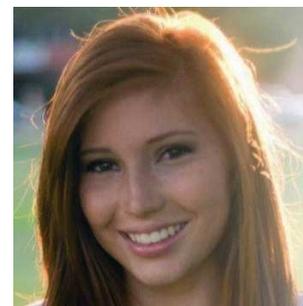
### Zachary Barlow, PhD Student

- Oregon ITE Bill Kloos Scholarship
- Member at TRB Committee on Transportation Engineering
- Safe Driving Public Service Announcement Competition



### Kamilah Buker, MS Student

- WTS Beverly Swaim Leadership Legacy Award



**Kayla Fleskes, MS Student**

- OSU Civil Engineering Student of the Year
- Richard and Lilo Smith Graduate Fellowship



**Dylan Horne, PhD Student**

- Richard and Lilo Smith Graduate Fellowship



**Hisham Jashami, PhD Student**

- 1<sup>st</sup> Place, PacTrans Student Poster Competition
- Safe Driving Public Service Announcement Competition



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## SELECTED STUDENT PUBLICATIONS

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### Selected Journal Articles:

1. Abadi, M. G.\*, Hurwitz, D., & Brown, S. (accepted 2/6/2017) "Influence of Context on Item-Specific Self-Efficacy and Competence of Engineering Students," *International Journal of Engineering Education*.
2. Abadi, M. G.\*, Jashami, H.\*, McCrea, S. A., & Hurwitz, D. (accepted 1/31/2017) "Evaluation of Right-of-Way Transitions at Signalized Intersections: Implications of Driver Behavior for Conflicting Though Movements," *Transportation Research Record: Journal of the Transportation Research Board*.
3. Mohammad, H. A.\*, Hurwitz, D., Smaglik, E. (accepted 9/27/2016) "Variable Driver Responses to Yellow Indications: An Operational Challenge and Safety Concern," *ITE Journal*.
4. Anderson, J.\*, Hernandez, S., (accepted 1/2017). Heavy Vehicle Crash Rate Analysis: A Comparison of Heterogeneity Methods Using Idaho Crash Data. *Transportation Research Record: Journal of the Transportation Research Board*.
5. Alomari, K., Gambatese, J., Anderson, J.\*, 2017. Opportunities for Using Building Information Modeling to Improve Work Safety Performance. *Safety* 3 (1), 7.
6. Haizhong Wang, Matthew Palm, Chen Chen\*. Rachel Vogt, Yiyi Wang. (2016) Does Bicycle Network Level of Traffic Stress (LTS) Explain Bicycle Travel Behavior? Mixed Results from an Oregon Case Study. *Journal of Transport Geography*. vol. 57 (2016) 8–18.
7. Al-Bdairi\*, N., Hernandez, S. 2017. An Empirical Analysis of Run-Off-Road Injury Severity Crashes involving Large Trucks. *Accident Analysis and Prevention*, 102, pp. 93-100.

\*: Indicates students who are members of the institute

### Selected Conference Papers:

1. Jashami, H. \*, Hurwitz, D., Abdel-Rahim, A., Bham, G., Boyle, L., & Cofer, W. (2017) "Educating Teenage Drivers in the Pacific Northwest about Distracted Driving," 96th *Transportation Research Board Annual Meeting Compendium, Paper 17-02233*
2. Hernandez, S., Jessup, E.L., Anderson, J.\*, North, E., 2017. Uncovering Confounding Factors of Large-Truck Crashes and Safety Critical Events: An Exploratory Analysis of a Northwest Truck Driver Survey. *58th Transportation Research Forum Annual Conference*.
3. Chen Chen\*, Robert L. Bertini , Haizhong Wang, Lance Knox. (2017) Spatial Analysis of Roadside Devices for Potential Vehicle to Infrastructure Adaptation: an Oregon Case Study. *96th Transportation Research Board Annual Meeting Compendium, paper 17-01219*. <https://trid.trb.org/view.aspx?id=1437529>

**Selected Technical Reports:**

1. Gambatese, J., Hurwitz, D., & Barlow, Z.\* (Submitted 10/20/16) Highway Worker Safety. National Cooperative Highway Research Program (NCHRP) Synthesis Report, Washington, D.C., 273p.
2. Olsen, M., Hurwitz, D., Kashani, A., & Buker, K\*. (Submitted 10/15/16) 3D Virtual Sight Distance Analysis using Lidar Data. Pacific Northwest Transportation Consortium (PacTrans), Seattle, WA, 87p.
3. Hurwitz, D., Barlow, Z., Abdel-Rahim, A., Belz, N., Boyle, L., Hajibabai, L. (submitted 10/15/16) Mitigation of Lane Departure Crashes in the Pacific Northwest through Coordinated Outreach (Phase I). Pacific Northwest Transportation Consortium (PacTrans), Seattle, WA, 31p.
4. Hurwitz, D., Abadi, M.\*, McCrea, S., Quayle, S. & Marnell, P. (2016) Smarter Red Clearance Extension Systems. Oregon Department of Transportation (ODOT), Salem, OR, 139p.
5. Hernandez, S., Anderson, J.\*, 2017. Truck Parking: An Emerging Safety Hazard for Highway Users, Oregon Department of Transportation, Report No. SPR-783.
6. Hernandez, S., Anderson, J.\*, 2016. Potential for Freight Mode Shifting in Oregon, Oregon Department of Transportation (ODOT), Report No. FHWA-OR-RD-16-17.
7. Christopher M. Monsere, Haizhong Wang, Chen Chen\*, Yi Wang. (2017) Risk Factors for Pedestrian and Bicycle Crashes. Oregon Department of Transportation. Report. (under final process in ODOT).

**\*: Indicates students who are members of the institute**

## CHAPTER ROSTER

First	Last	Degree	Expected Graduation Date
Alex	Bird	B.S.	2017
Alex	Warner	B.S.	2017
*Ali	Jafarnejad	M.S.	2016
*Alireza	Mostafizi	Ph.D	2019
Allyson	Ironside	M.S.	2019
*Amber	Meeks	B.S.	2018
*Amy	Wyman	B.S.	2017
*Caleb	Lennon	B.S.	2017
Chao	Chen	B.S.	2018
*Chen	Chen	M.S.	2017
*Chris	Bame	M.s.	2017
Daniel	Cicerchi	B.S.	2017
*Dylan	Horne	Ph.D	2020
*Efrain	Yarasca	Ph.D	2019
*Elizabeth	Rios	M.S.	2017
*Ellen	Simpson	M.S.	2018
Eric	North	B.S.	2018
Gabriel	Cambraia	B.S.	2018
*Hameed	Mohammed	Ph.D	2019
*Hamsa	Zubaidi	Ph.D	2019
*Harith	Abdulsattar	Ph.D	2019
Hashim	Alyousef	B.S.	2016
*Hisham	Jashami	Ph.D	2020
*Ihsan	Obaidi	Ph.D	2019
*Jason	Anderson	Ph.D	2020
*Joseph	Claveria	M.S.	2018
Justine	Bird	M.S.	2017
*Kaitlin	Littleford	B.S.	2017
*Kamilah	Buker	M.S.	2017
*Kayla	Fleskes	B.S.	2016
*Kevin	Bishop	B.S.	2018
*Kyaw	Htet	B.S.	2018
Kyle	Logan	B.S.	2016
Kyle	Kunze	B.S.	2018
Lauran	Lucas	B.S.	2018
*Logan	Scott-Deeter	B.S.	2019
*Masoud	Ghodrat Abadi	Ph.D	2019
*Matthew	Barner	M.S.	2016
*Merih	Wahid	Ph.D	2017

*Mostafa	Estaji	Ph.D	2020
*Nabeel	Al-Bdairi	Ph.D	2020
Nolan	Godfrey	B.S.	2018
Peter	Colton	B.S.	2017
Sean	Gestsons	Ph.D	2020
*Shangjia	Dong	Ph.D	2020
*Shashwath	Sreedhar	Ph.D	2019
*Sogol	Haddadi	M.S.	2017
Stephanie	Gallardo	B.S.	2018
Stephanie	Lockett	B.S.	2018
Sulaiman	Alarifi	B.S.	2018
*Travis	Larson	B.S.	2018
Tyler	Oathes	B.S.	2018
*Yue	Ke	Ph.D	2019
*Zachary	Barlow	M.S.	2017

*\*: Indicates students who are members of the institute*

B.S.: **25**

M.S.: **12**

Ph.D: **17**

Total: **54**