

California Polytechnic State University
San Luis Obispo ITE Student Chapter

Annual Report

2018 - 2019



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“Learn by Doing”

Institute of Transportation Engineers Annual Report of Student Chapter Activities

From May 1, 2018 to February 28, 2019

Student Chapter at California Polytechnic State University, San Luis Obispo

1. STUDENT CHAPTER OFFICERS

President: Brian Gaul
Vice President: Megan Stickelmaier
Secretary: Ashley Yao
Treasurer: Eric Yamzon
Professional Coordinator: Brendan Lin
Outreach Coordinator: Zach Caipang
Social Coordinator: Jonathan Gong-Guy
Marketing Coordinator: Kezia Suwandhaputra
Historian: Jacky Loh
Past President: Vanessa See

2. STUDENT CHAPTER MEMBERSHIP

Number of Student Chapter Members: **81**
Number of Student Members of the Institute: **28**
Number of Students Eligible to be a Student Member of the Institute: **53**
Number of faculty members who are current ITE members: **2**

3. INFORMATION ON TRANSPORTATION ENGINEERING ENROLLMENT

Number of undergraduate students in Civil Engineering: Full Time ~ **450** Part Time ~ **25**
Our curriculum does not allow an undergraduate student to major or minor in Transportation.
Number of graduate students in Transportation: Full Time ~ **12** Part Time ~ **0**

4. SUMMARY OF STUDENT CHAPTER ACTIVITIES

Please see attached supplemental annual report.

5. ROSTER OF STUDENT CHAPTER MEMBERS

Please see attached supplemental annual report.
Report submitted by:

Brian Gaul

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Dr. Kimberley Mastako
Cal Poly SLO ITE Student
Chapter Faculty Mentor
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Cal Poly ITE 2018-2019 Member Roster

Last Name	First Name	Degree	Year
Alvarez*	Jason	BSCE	2019
Andrews*	William	BSCE	2021
Angold*	Ethan	BSCE	2019
Azriel*	Eric	MCRP/MCE	2019
Beusee	Charlie	BSCE	2021
Bifone	John	BSCE	2020
Butler	Patrick	BSCE	2019
Caipang	Zachary	BSCE	2020
Chan	Meagan	BSCE	2021
Chau*	Tram	BSCE	2021
Choy*	David	BSCRIP	2021
Ciriaco*	Devin	MCRP/MCE	2019
Claypool*	Elizabeth	BSCE	2022
Dadala*	Hephzibah	BSCE	2022
Dang	Huy	BSCE	2020
Deathrage	Alex	BSCE	2020
Ding*	Yin	BSCE	2020
Escher	Evan	BSCRIP	2019
Evanski	Connor	BSCE	2020
Friedman	Brandon	BSCE	2019
Fucini	Zachary	BSCE	2021
Gaul*	Brian	BSCE	2019
Gong-Guy	Jonathan	BSCE	2020
Gopar	Rafael	BSCE	2020
Hajj	Emily	BSCE	2020
Hamada*	Jacob	BSCE	2022
Harrington	Ryan	BSCE	2019
Hernandez*	Edgar	MCRP/MCE	2019
Horn	Elizabeth	BSCE	2019
Howard	Johnathan	MSCEE	2019
Jacobsen	Madilyn	MCRP/MCE	2019
Jimenez	James	BSCE	2021
Johnson	Anna	BSCE	2020
Kang	Tammy	BSCE	2021
Keeton*	Liam	BSGENE	2022
Kim	Jade	MCRP/MCE	2019
Lai*	June	MCRP/MCE	2019
Lam	Jacob	BSCE	2022
Lau	Laurence	MSCEE	2019
Leal Ruiz	Andrea	BSCE	2021
Lee	Bryant	BSCE	2022
Lee*	Katherine	BSCE	2021

Liang	Guojie	BSCE	2019
Lim	Cody	BSCE	2020
Lin	Emily	BSCE	2021
Liu	Sarah	BSCE	2021
Liu*	Bernice	MSCEE	2019
Loh*	Jacky	MSCEE	2019
Luo	Zhiliang	BSCE	2021
Lura	David	BSCE	2019
Ma	Ching Man	BSCE	2020
Mangney	Luke	BSCE	2022
Mannion	Megan	BSCE	2021
Messmer*	Blake	BSCE	2022
Milam	Meredith	BSCRCP	2021
Miller*	Gabe	BSCE	2020
Minsch	Micki	BSCE	2019
Newman*	Ryan	BSCE	2022
Ocampo	Arely	BSCE	2019
Paulino	Joshua	BSCE	2019
Pence	Ethan	BSCE	2020
Pun*	Garrett	BSCE	2019
Rahman	Faridur	MSCEE	2019
Sachdeva*	Vidhi	BSCE	2019
Saptono	Januar	BSCE	2019
See*	Vanessa	BSCE	2019
Serpa	Jessie	BSCE	2020
Shinn	Jill	MSCEE	2019
Soo	Jared	BSCE	2021
Stickelmaier	Megan	BSCE	2020
Strong	Christine	BSCE	2021
Suwandhaputra	Kezia	BSCE	2021
Vazquez	Daniela	BSCE	2019
Wang	Calvin	BSCE	2020
Weerasinghe*	Vinu	BSCE	2021
Weng*	Jeff	BSCE	2019
Wong*	Justin	BSCRCP	2019
Yamzon	Eric	BSCE	2020
Yang	Philip	BSCE	2021
Yao*	Ashley	BSCE	2020
Yost	Krista	MCRP/MCE	2019

Key to Degree: (* denotes student member of the Institute)

BSCE = Bachelor of Science in Civil Engineering

BSCRCP = Bachelor of Science in City and Regional Planning

BSGENE = Bachelor of Science in General Engineering

MSCEE = Master of Science in Civil and Environmental Engineering

MCRP/MSE = Master in City and Regional Planning and Master of Science in Engineering, Specialization in Transportation Planning

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From the President's Desk

On behalf of the Cal Poly, San Luis Obispo Student Chapter of the Institute of Transportation Engineers (ITE), I am honored to submit our 2018-2019 Annual Report. Over the past twelve months our club has welcomed many new faces into our thriving community of transportation students. We also have been able to provide meaningful experiences to our members through professional development, interactions with industry and academia, social events and volunteering.

We have a saying in our club: “Ohana’ means family. Family means nobody gets left behind or forgotten.” This year our student chapter focused on creating an inclusive community for our members by promoting bonding and social activities. We added a couch to our transportation project lab and have seen an influx of students using the space to work collaboratively on transportation class and research projects. We also started our first ever intramural sports volleyball team and have been bonding and relieving stress through competition!

Our other main focus for the year was to provide direct connections between students and the transportation industry. We traveled up and down California touring offices and project sites, giving our members a firsthand view of life as a transportation professional. Another success of this year has been the growth of our software training programs, including teaching the program Synchro (a software not covered by our Civil Engineering curriculum). These sessions give our members a leg-up in their future careers and establish professional skills.

I would like to thank our two co-faculty advisors, Dr. Anurag Pande and Dr. Carole Voulgaris for their commitment and enthusiasm to our student chapter. The two of them have been instrumental in guiding our club and continuing to uphold the high standards of this incredible institution. I must also extend further thanks to our chapter mentor, Dr. Kimberly Mastako for her efforts in enlisting young transportation students to help in our numerous data collection projects while promoting the benefits of our student chapter. Without the support of our wonderful advisors and mentors, our club would not have grown to what it is today.

The success of our student chapter also derives from the passion and involvement of our student members. We are lucky to have a large group of devoted students who attend our events not just for the free food (although that is a plus), but because they love transportation and have become a part of our ITE family. This includes our tight-knit and fun-loving officer board. All of our officers have been extremely reliable and are always excited to find new ways to improve our student chapter.

In addition, the support and assistance of the Central Coast Section, Western District, and International divisions of ITE have been vital to the success of our student chapter. I am thankful for the guidance provided by Professional ITE members and for helping myself and our students feel welcomed into the larger community of transportation professionals. It has been an extraordinary year for our student chapter and I am proud to share our success with you through this report.

Respectfully submitted,

Brian Gaul

Brian Gaul

President, Cal Poly San Luis Obispo Student Chapter, 2018-2019



Chapter Organization

Elected Officers



Brian Gaul *President*

His duties include leading general and officer meetings, guiding the chapter's goals and direction, and representing the chapter to the industry, Professional ITE, the Civil and Environmental Engineering Department, the College of Engineering, and Cal Poly. His dream job is to design airports and he loves that transportation focuses on providing safe, efficient infrastructure that benefits and connects society.

Megan Stickelmaier *Vice President*

Her duties include running special projects, including our SFI proposal, officer bonding, and coordinating our presence for Student Leadership Summit and Annual Meetings. Her favorite mode of transportation is biking!



Eric Yamzon *Treasurer*

He manages the chapter accounts, balances the budget, acts as liaison between the Student Chapter and Cal Poly Student Government, and heads fundraising organization. His favorite mode of transportation is Heelys and he will be spending spring quarter in the Philippines.

Ashley Yao *Secretary*

She sends weekly announcements, acts as student manager for the Madonna Inn Data Collection Project, edits quarterly newsletters, and composes and distributes other professional documents. Her favorite part about being secretary is writing greetings and sign-offs for the announcements.



Brendan Lin *Professional Coordinator*

He coordinates quarterly firm tours, speed interviews, and resumes reviews. He works with professionals and the University to get members of the Student Chapter exposed to a wide and interesting array of firms, agencies, and projects. If he wasn't studying to be a civil engineer, his dream job would be an artist.



Jonathan Gong-Guy *Social Coordinator*

He organizes social events to unite the chapter. So far, these have included a coffee & bagel study session, line dancing, joint civil club bonfire, and archery. In addition, he leads the community service efforts through events like Build an Engineer Day. He is our Intermural Volleyball MVP.

Zachary Caipang *Outreach Coordinator*

His duties include planning general meetings, contacting speakers, and maintaining the Transportation Engineering Student Project Area along with the Vice President. His favorite thing about Cal Poly ITE is the lasting friendships!



Kezia Suwandhaputra *Marketing Coordinator*

She maintains the online web presence through updating the website with photos and providing chapter information to members. She also professionally maintains our social media accounts which further informs our members of upcoming events. She is our youngest and most enthusiastic officer.



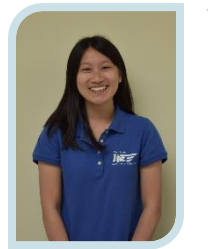
Jacky Loh *Historian*

He preserves the Student Chapter's history by photographing meetings, events, and conferences. He also has compiled several past annual photo albums. He is a graduate student researching adaptive ramp metering in the Bay Area making him our oldest officer. We affectionately refer to him by his nickname J-Loh.



Vanessa See *Past President*

Her expertise guides the Student Chapter through interactions with Cal Poly, professional ITE, and industry. Her dream occupation is to be a City Traffic Engineer in San Francisco. She loves encouraging underclassmen to explore transportation as a career path and to travel to new places with Cal Poly ITE through conferences.



Faculty Advisors



Dr. Anurag Pande serves as Student Chapter Faculty Co-Advisor and is an Associate Professor in the Cal Poly Department of Civil and Environmental Engineering. He has a Master's degree and PhD in Civil Engineering (Transportation) from University of Central Florida, and a Bachelor's degree in Civil Engineering from the Indian Institute of Technology, Bombay. His Teaching and research interests include traffic safety, traffic simulation, and statistical analysis of transportation data. He is an editor of the new edition of the Traffic Engineering Handbook recently published by ITE.



Dr. Carole Turley Voulgaris has been serving as Student Chapter Faculty Co-Advisor since her arrival as an Assistant Professor in the Civil and Environmental Engineering Department at Cal Poly in January 2018. She has a PhD in Urban Planning from UCLA, Bachelor's and Master's degrees in Civil Engineering from Brigham Young University, and an MBA from Notre Dame. She is a licensed professional engineer in Washington state. Her research interests are centered on transportation funding, performance-based management, and travel behavior.

Faculty Mentor



Dr. Kimberly Mastako serves as Faculty Mentor of the Student Chapter. In 1990, Dr. Mastako launched her career with 'Mobility 2000 era' Intelligent Vehicle Highway Systems (IVHS). After five years of smart-mobility research, she shifted her attention to instructional design. She has been teaching transportation courses ever since. Dr. Mastako is the author of *Intro2Transpo* and *Traffic4Engineers Volume I: Unsignalized*. She has a PhD from Texas A&M University, a Bachelor's degree in civil engineering, MBA, and Master's degree in engineering management from Cal Poly.

Summary of Events 2018-2019

General Meetings	
Mar 8	Parisi Transportation
Mar 15	Transportation Jeopardy Social
Apr 12	Phoenix Valley Metro Rail Planning and Development
Apr 19	LADOT
Apr 28	Central Coast Transportation
May 10	Joint Meeting with Central Coast ITE
May 17	Professor Eugene Jud
May 24	ITE Officer Elections
June 7	Final Meeting
Sept 27	Welcome & Intros
Oct 11	Fehr & Peers
Oct 25	Kittelson and Associates
Nov 15	DKS Associates
Dec 6	Fall Quarter Study Break
Jan 17	W-Trans
Jan 31	City of San Luis Obispo
Feb 14	Bishop Peak Technology
Jan 26	DKS Associates
Feb 28	Parisi Transportation
Officer Meetings & Info Sessions	
Mar 13	Officer Meeting
April 1	Officer Meeting
May 8	Open Officer Meeting
May 22	Open Officer Meeting
May 29	Western District Info Session
June 5	Officer Meeting
Sept 20	Officer Meeting
Oct 4	Officer Meeting
Oct 18	Officer Meeting
Nov 1	Officer Meeting
Nov 10-11	Officer Bonding Camp Trip
Nov 13	SLS Info Session
Nov 16	SLS Info Session
Nov 27	SLS Info Session
Nov 29	Officer Meeting
Nov 29	Officer Meeting
Jan 10	Officer Meeting
Jan 24	Officer Meeting
Feb 7	Officer Meeting
Feb 21	Officer Meeting
Section and District Events	
Apr 28	ITE Central Coast Section Meeting
June 23-27	Joint ITE Western District & Texas District Annual Meeting
Aug 21-22	ITE International Annual Meeting and Exhibit
Jan 25-27	Student Leadership Summit
ITE Advocacy	
Apr 6	Meet & Greet with Mark Spencer, ITE Western District President, Principal at W-Trans
Sept 28	CE 111 Introduction to Civil Engineering Presentation
Sept 28	Student Advisory Board Meeting
Oct 12	Student Advisory Board Meeting
Oct 26	Student Advisory Board Meeting
Nov 8-9	California Transportation Foundation Symposium
Nov 9	Student Advisory Board Meeting
Nov 23	Student Advisory Board Meeting
Dec 7	Student Advisory Board Meeting
Dec 21	Student Advisory Board Meeting
Jan 4	Student Advisory Board Meeting
Jan 18	Student Advisory Board Meeting
Feb 1	Student Advisory Board Meeting
Feb 12	Student Advisory Board Meeting
Feb 26	Student Advisory Board Meeting
Community Outreach & Service	
Apr 12	Open House Campus Showcase Duct Tape
Apr 17	Campus Club Showcase
Apr 28	SLO Railroad Museum Volunteering
May 10	SLOCOG Active Transportation Counts
May 12	Build an Engineer Day Volunteering
May 12	SLO Railroad Museum Volunteering
May 16-17	City of SLO Traffic Survey
Sept 17	College Connection Day
Sept 23	Campus Club Showcase
Oct 14	RTA Bus Roadeo
Feb 23	ITE Trip Generation Data Collection Project
Feb 27	ITE Trip Generation Data Collection Project

Meetings

Liaison

Activities

Mar 4 ITE Trip Generation Data Collection Project

Technical Tours

Mar 2 Orange County Firm Tours

May 4 Los Angeles Firm Tours

Nov 9 Local Firm Tours

Social & Professional Events

Mar 1 Joint Civil Clubs Bike Night

Apr 12 PSWC Transportation Competition

May 19 Archery Social

May 31 Bicycle Mario Kart

June 8 End of the Year Potluck

Aug 25 Beach Day with UCI

Oct 4 Bike Night

Oct 6 Joint Club Bonfire

Oct 25 San Luis Obispo Transportation Mixer

Nov 1 Bike Night

Nov 3 Archery Social

Dec 6 Bike Night

Jan 7-11 Transportation Research Board Annual Meeting

Jan 15 Speed Interviews & Resume Workshop Career Fair Prep Night with YMF

Jan 18 2nd Annual Transportation Alumni Reception & Career Fair Mixer

Feb 1 Synchro Training Session

Feb 7 Line Dancing Social

Feb 10 Intermural Volleyball

Feb 22 Coffee & Bagels Study Session

Feb 24 Intermural Volleyball



INFORMATIONAL MEETINGS

STUDENT LEADERSHIP SUMMIT



- Tuesday, 11/13/18 11:10 AM
- Friday, 11/16/18 2:10 PM
- Tuesday, 11/27/18 3:10 PM

All meetings at the TESPA (197-210)

If you are planning to attend SLS, you are required to go to one informational meeting.



Cal Poly ITE San Luis Obispo

FRIDAY 11/09/18

FIRM TOUR



8-9am

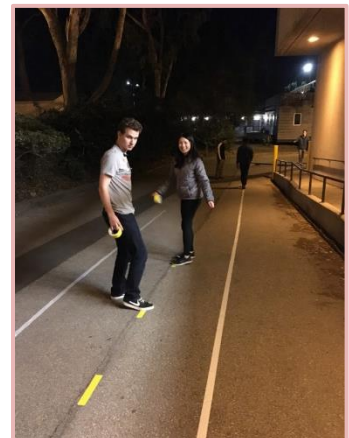
9:15-10:15am

10:30-11:30am

12:00-1:30pm

2-2:45pm

3-3:45pm



Chapter Activities

Technical Presentations

Our Chapter holds biweekly general meetings covering a wide variety of topics and speakers. The following table summarizes general meetings and technical presentations that the ITE Student Chapter hosted in the last year.

Date	Topic	Presenter (*ITE Member)	Career Position		
Mar 8	My Experiences in Transportation Consulting	Andrew Lee	Senior Transportation Engineer, Parisi Transportation Consulting	SPRING 2018	
Apr 12	Valley Metro Public Transportation Overview	Jenny Grote*	Former Deputy Street Transportation Director, City of Phoenix		
		Wulf Grote*	Director of Planning and Development, Valley Metro Rail		
Apr 19	Transitioning to a Career in Signal Control	Kaylinn Pell*	Transportation Engineering Associate, LADOT		
Apr 26	The Benefits of Working at a Small Firm	Travis Low*	Transportation Engineer, Central Coast Transportation Consultants		
May 10	Valencia Bikeway Improvements Project	Kimberly Leung*	Associate Engineer, SFTMA		
May 17	50+ Years in ITE	Eugene Jud*	Emeritus Professor, Cal Poly SLO		
Sept 27	Club Overview and Introductions	Brian Gaul*	President, Cal Poly ITE	FALL 2018	
		Anurag Pande*	Associate Professor, Cal Poly SLO		
Oct 2	San Diego International Airport Terminal 1 Project and How to Navigate the Career Search	Monica Fielder- Ross	Civil Analyst, Kimley-Horn		
		Allison Galuszka	Campus Recruiter, Kimley-Horn		
Oct 11	Perspectives on Transportation Engineering: Junior and Senior Staff	Tom Gaul*	Principal, Fehr & Peers		
		Ashlee Takushi	Transportation Engineer, Fehr & Peers		
		Mark Howard	Transportation Engineer, Fehr & Peers		
Oct 25	Emerging Trends in Transportation	Krista Purser*	Engineering Associate, Kittelsohn & Associates		
		Marc Butorac*	Associate Engineer, Kittelsohn & Associates		
Nov 15	Signal Design 101	Cameron Shew*	Transportation Engineer, DKS Associates		
Nov 28	Ridership Ramp-Up for Fixed-Guideway Transit Projects	Jill Shinn	Graduate Student, Cal Poly SLO		
Jan 17	Trip Generation for Cannabis and Winery Uses	Briana Byrne*	Assistant Transportation Engineer, W-Trans		WINTER 2019
		Cameron Nye*	Associate Transportation Engineer, W-Trans		
Jan 31	The Golden Age of Public Transit	Gamaliel Anguiano	Transit Manager, City of SLO		
Feb 14	The Role of Software Engineering in Transit Systems and Bishop Peak's Role	John Osumi	CEO, Bishop Peak Technology		
Feb 22	Travel Behavior Implications of Autonomous Vehicles (w/City and Regional Planning Dept.)	Ronald Milam*	Director of Evolving the Status Quo, Fehr & Peers		
Feb 28	Working at a Small Firm and the Crossover between Engineering and Consulting	Hadar Albo*	Transportation Consultant, Parisi Transportation Consulting		

Firm Tours and Professional Activities

The Student Chapter hosted four technical tours in the past year.

Winter 2018 – Orange County Firm Tours

In Orange County, California, Cal Poly ITE Student Chapter visited Kimley Horn, Econolite, and DKS. At Kimley Horn, they presented their roadway plan sets on railroad underpass expansions and spoke about the challenges of rail. At Econolite, students learned about traffic hardware control boxes and the software involved with signal detection. At DKS, ITE members met up with alumni Ashley Kim and learned more about transitioning into careers from college.

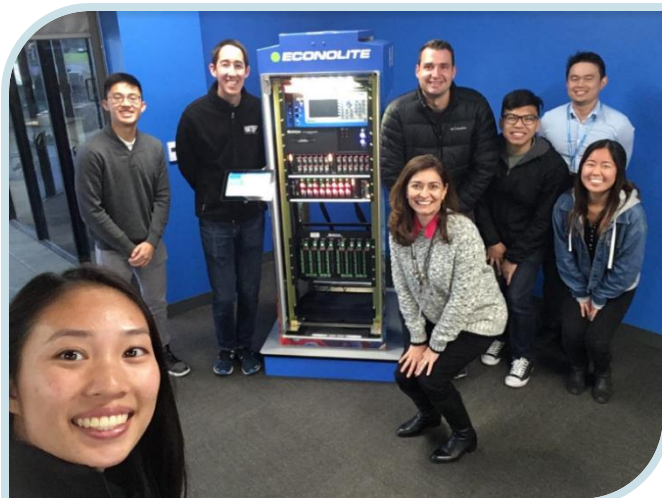


Spring 2018 – Los Angeles Firm Tours

The Cal Poly ITE Student Chapter headed Los Angeles, California on Friday, May 4th to tour LADOT's Automated Traffic Surveillance and Control System and the Downtown LA Fehr & Peers office. They heard about special event signal timing in LA and how people at ATSAC can control signals in LA. At Fehr & Peers, students learned more about transportation planning and saw project plans for the Rail to Rail bicycle and pedestrian facility.

Fall 2018 – Local Firm Tours

On November 9th, students toured six different firms in the San Luis Obispo area. Rides were organized to accommodate for class schedules and many students took advantage of this opportunity to network with local professionals. Firms visited included: City of San Luis Obispo, Rick Engineering, Wallace Group, San Luis Obispo Regional Transit Authority, San Luis Obispo Airport, and Bishop Peak Technology. These firms informed students on many topics from bus scheduling to roundabouts to new transportation technologies. Students got to experience the breadth of transportation engineering and also incorporate themselves into the professional community.



Professional Development

Our Chapter hosts additional professional development events throughout the year to help members develop skills for the workforce. In January 2019, in preparation for the Civil and Environmental Engineering Career Fair, our Chapter hosted a speed interview workshop to challenge our members to think quickly, critically, and concisely. The speed interviews were conducted by twelve professionals from ASCE YMF who volunteered to help with the event, providing a true interviewing experience for the students. A professional from MNS Engineering led a resume workshop for members as well. We also held a Transportation Alumni Reception and Mixer after the Career Fair. This gave members access to ask more in depth questions about the companies that attended and provided a space for Cal Poly ITE alumni to reconnect.



In February 2019, President Brian Gaul conducted a Synchro Training Workshop. During this workshop he prepared local traffic data to guide members through a tutorial. Synchro is not taught at Cal Poly but is a highly sought skill in industry. Also in February 2019, officers hosted our first Coffee & Bagel Study Session to create an open space for underclassmen to consult with upperclassmen about school work and job searching. The event was successful due to a high attendance rate throughout the day long event and the amount of productivity that occurred.

In October 2018, Student Chapter members organized and hosted a transportation mixer in San Luis Obispo. This occurred at a central location, the regional library. The mixer joined local transportation enthusiasts from public and private agencies, transportation faculty, and students. The attendees built friendships and professional connections over Thai food. The highlight of the night was the ice-breaker where the forty attendees shared their favorite mode of transportation. Dining tables had diverse groups of people and of conversation. Spending more time with professionals offers students a chance to gain a deeper understanding of career paths and the industry.



In September 2018, during the first general meeting, faculty advisors presented on department research opportunities. Cal Poly ITE members: Bernice Liu, Devin Ciriaco, Ashley Yao, Kezia Suwandhaputra, Jacky Loh, Faridur Rahman, Lawrence Lau, Jonathan Howard, and June Lai are currently conducting research either as their graduate thesis or as research assistants to faculty projects.

Membership Promotion

The Chapter actively promotes membership of Cal Poly ITE through on-campus outreach events and by maintaining a presence on social media.

Cal Poly Student Body Outreach

The Student Chapter officers actively promote the organization by:

- Announcing upcoming ITE meetings and events to transportation courses
- Creating flyers with upcoming ITE events that are posted on our social media sites
- Weekly email announcements to all civil engineering students
- Communicating with other students in courses to encourage them to attend an ITE meeting
- Attending Introduction to Civil Engineering class to assist the professor
- Giving a pitch to Civil Engineering freshmen about ITE at the Introduction to Civil Engineering class
- Representing the Student Chapter with a booth at club fairs: Open House weekend in April and Club Showcase in September where students can ride our tandem bike and eat transportation-themed donuts
- Spreading awareness of bicycling by hosting Mario Kart: Bicycle Edition in May for Bike Month and encouraging other student organizations to join us at monthly Downtown San Luis Obispo Bike Nights



This year, one of the civil open labs was converted to a classroom. More students have been coming to the TESPAs to study and the current officers have been welcoming this as an opportunity to teach others more about transportation. We have also been added a couch and snacks for late night frequenters to be more accommodating to the capacity of people spending time in the lab.

Prospective Student and Freshmen Outreach

The Student Chapter met prospective students at Admitted Students Day and promoted ITE and transportation by:

- Mingling with prospective students at the Civil and Environmental Engineering Ice Cream Social
- Providing tours of the TESPAs
- Encouraging students to attend a Cal Poly ITE meeting and to visit the Student Chapter website
- Explaining why a career in transportation is rewarding



Graduating Senior Recognition

As a farewell to our fall and spring quarter graduating seniors, the officer team made personalized picture frames with a collage of photos from each student's ITE experiences through the years. The senior send-off gave the graduating students an opportunity to be recognized for their efforts, service, and participation in ITE. The graduating seniors were encouraged to continue participating and serving in ITE during their professional careers.

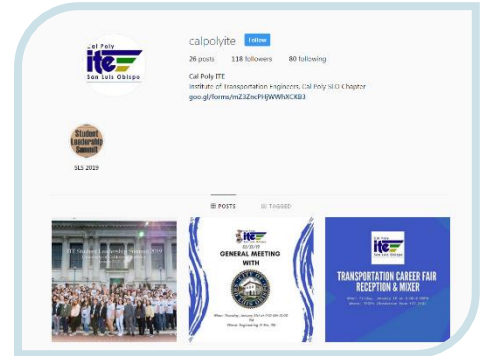


Marketing Efforts

Our Chapter's membership is promoted through the following:

- A weekly e-mail with upcoming events sent to the Civil and Environmental Engineering Department
- A website updated regularly with events, photos, transportation-themed puns, and job opportunities
- A Facebook group where officers, members, alumni, and professionals can share scholarships, jobs, internships, transit games, transit videos, and upcoming events
- A Twitter and Instagram account with event updates, reminders, and industry outreach
- A Google Calendar of all events that is featured on the home page of the Civil and Environmental Engineering Department's website, expanding our exposure to approximately 900 students in the department

- A "sandwich board" updated weekly with chapter meeting details along a busy walkway outside the main civil engineering building on campus
- Personal and intentional relationships between officers and members



Social Events for Chapter Members

To promote common interests among student members, the Student Chapter hosted a variety of social events. Due to an influx of athletic students and interest in physical health, we have started an Intermural Volleyball team, attended



multiple bike nights, and went to archery ranges. Other new events this quarter included a local favorite, line dancing and a joint club bonfire with other civil clubs on campus. During the week before finals each quarter, the officer team hosts a study break event where students can play games and eat together. At the end of Fall Quarter, we play board games and transportation simulation games; at the end of Winter Quarter, we play a transportation-themed Jeopardy game; at the end of Spring Quarter we have an end-of-the-year potluck. This year officers have taken more initiative in creating and planning events that align with member interests both within and outside of transportation.

PSWC Transportation Team

In April of 2018 a team of eight Student Chapter members competed at the ASCE Pacific Southwest Regional Conference (PSWC) in Phoenix, Arizona. The team created a site plan for the development of a 2000 square foot restaurant and a 4000 square foot specialty retail store. This entailed drafting the conceptual design in AutoCAD Civil 3D showing the parking layout and driveway access to the site. The team also conducted a Level of Service Analysis of the surrounding intersections comparing baseline and future conditions, which required a trip generation and distribution study for the development. Competing at the PSWC each year allows young members to be exposed to a transportation design project and learn firsthand what transportation planning and engineering entails.



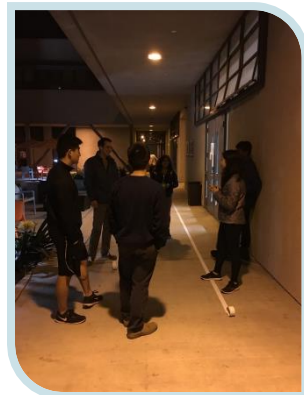
Public Service Activities

Build an Engineer Day

Twice a year, the Student Chapter participates in an event hosted by the Cal Poly Chapter of the Society of Women Engineers, called Build an Engineer Day. Cal Poly ITE student members hosted a lab with speed detectors where each elementary and middle school student had the opportunity to learn about speed surveys, how speed detection devices work, and how to use the devices to collect and analyze speed data.

Madonna Inn Data Collection

In the beginning of 2019, the Student Chapter submitted a proposal to ITE to conduct Trip Generation Data Collection at Madonna Inn in San Luis Obispo. The resort hotel fulfills a unique role in the community, and we had eager members volunteer to do two hour shifts of counting traffic. Nineteen students gained practical experience by counting vehicles, bicycles, and pedestrians at the only entrance for 12 hours on 2 weekdays and 1 weekend. Student Chapter members processed data and prepared a professional report. In return for the effort, the Western ITE donated \$1,000 to support travel to the 2019 Western District Annual Meeting.



Open House Duct Tape Crew

Each April, Cal Poly San Luis Obispo ITE is enlisted by the Civil and Environmental Engineering department to guide prospective students around the civil and environmental engineering side of campus for the annual Open House weekend. The Civil & Environmental Engineering Department has requested the Student Chapter's expertise for this task annually and has been satisfied with the students' design work and efficient cleanup. The Student Chapter accomplishes this by using duct tape to form a mostly MUTCD-compliant roadway network to guide students from one point-of-interest to another. In addition, the Student Chapter worked with faculty to add the transportation lab and demonstrations to the annual tour, drawing more interest to the transportation field.

Regional Transit Authority (RTA) Bus "Roadeo"

Cal Poly ITE members and transportation students annual volunteer at the San Luis Obispo Regional Transit Authority's Bus Roadeo. The Roadeo is a friendly competition between RTA bus drivers to maneuver their buses through obstacles and helps bring RTA employees and their families together. The volunteers served as judges of the competition and used their transportation skills to score each bus driver's performance. The student volunteers had a fantastic time serving the local community, meeting RTA staff, and enjoying their well-earned barbeque lunch. This is the fourth year we have volunteered for the Roadeo—the Chapter was invited by RTA to volunteer again, after all the help we provided last year. RTA employees are some of our biggest fans—they come to our transportation mixers, volunteer to interview students at our Mock Interviews, and provide free travel on their buses for transportation elective class field trips.



City of San Luis Obispo Halloween Traffic Safety Campaign

In October 2018, the Student Chapter helped the City of San Luis Obispo with their annual Halloween Traffic Safety Campaign for the third year in a row. Chapter volunteers counted, sorted, and packaged reflective orange trick-or-treat bags with traffic safety tips. The volunteers delivered the bags to 15 schools throughout the City, promoting traffic safety awareness to 4,100 elementary school students, an increase from the 3,700 students engaged last year.



SLO Railroad Clean-up and Solar Panel Installation

The Student Chapter volunteered at the Railroad Museum in San Luis Obispo. Members cleared overgrown landscaping to make space for solar panels. The staff led members on a tour of the museum which had Central Coast train models and old railcars. The museum was an amazing place to volunteer due to its relevance to ITE. Serving the community through physical labor gave members a bonding opportunity and a change of setting from their studies. The members enjoyed pizza for lunch afterwards with the museum employees, which bolstered the sense of camaraderie and community.



Socializing with Industry

Annual Joint Meeting with the Central Coast Section

The Student Chapter and ITE Central Coast Section held their Joint Meeting on the Cal Poly campus on April 28, 2018. This annual event provides an on-campus opportunity for students to network with local professionals who are members of ITE. Food was provided and tables were arranged so that students could easily meet and discuss with professionals. The meeting was an even mix of professionals and students. The speaker, Kimberly Leung, presented the SFMTA's work on the Valencia Street Bike Improvements.



Industrial Advisory Board

The Cal Poly Civil and Environmental Engineering Department semi-annually hosts their Industrial Advisory Board (IAB). The meeting invites industry representatives from a wide variety of civil engineering firms to sit in and advise the Department on curriculum changes, in addition to securing funding and equipment. The Student Chapter sent Brian Gaul to represent the Chapter at both IAB meetings in this report year. Representation of the Chapter involved participating in a breakout session in which Civil and Environmental club representatives, industry representatives, and the department chair investigated modernizing the Industrial Partnership Program.

New to the Civil and Environmental Engineering Department this year is the formation of the Student Advisory Board. This panel includes the club presidents from eleven Civil and Environmental Engineering clubs and two Department representatives. This body promotes inter-club collaboration and helps to further the success of the Department as a whole. One new change is the implementation of a consolidated sponsorship packet that has increased funds available to the Student Chapter to use for sending members to conferences and travel.

CTF Transportation Education Symposium



Each year, the California Transportation Foundation (CTF) hosts a Transportation Education Symposium and invites students interested in transportation from various California universities to attend. This year, Cal Poly ITE Chapter President Brian Gaul was nominated by Civil and Environmental Engineering faculty to attend and represent the Student Chapter at this two-day event. Brian teamed with other students and industry mentors to compete in a mock Request for Proposals presentation. The event also helped the Chapter network with industry contacts who could potentially serve as speakers for future general meetings.

Third Annual Transportation Alumni Reception

The Student Chapter hosted the 3rd Annual Transportation Career Fair Reception on January 18, 2019. The standing-room-only event followed Cal Poly's annual Civil and Environmental Engineering Career Fair and was hosted in the Transportation Engineering Student Project Area (TESPA). Originally intended to serve as an event for Cal Poly transportation alumni to reconnect with each other after a long day of recruiting at the career fair, it has grown into a mixer where current students, transportation professionals, and Cal Poly faculty gather to connect and reconnect with one another. At the reception, the Student Chapter provided food and a mix of professors, students, and professionals attended. For alumni, the event was also a good place to reconnect with their teachers.



Spotlight on ITE Western District website

Three Student Chapter members, Vanessa See, Brian Gaul and Brendan Lin were featured in the Student Endowment Fund Spotlight for May/June of 2018. This opportunity allowed the Student Chapter to connect with the broader network of Western District ITE members and share their thoughts about the positive impact that ITE has had on their college careers.



Quarterly Newsletters

At the beginning of every quarter, the Chapter sends a newsletter that includes information on past and upcoming events, a message from the President, and a student spotlight section. Individuals, including our Chapter sponsors, alumni, and professionals, who sign up to be a "Friend of Cal Poly ITE" on our Chapter website receive an electronic copy sent to their email. The newsletters help keep our supporters updated on the Chapter's events and accomplishments throughout the year. The student spotlight section helps our supporters get to know the current members better.



The TESPAs

Acquired many years ago by the efforts of the Student Chapter, the Transportation Engineering Student Project Area (TESPA) has continued to provide an indispensable space for transportation students, both undergraduate and graduate, to study, access transportation software, consult reference material, collaborate on projects, and get to know their peers.

This year, one of the civil open computer labs was converted to a classroom. As a result, more students utilize the TESPAs to study and current Student Chapter officers have welcomed this as an opportunity to educate others about transportation and recruit more members to ITE. The Student Chapter also added a couch and snacks for late night frequenters to be more accommodating to the capacity of people spending time in the lab.



Other TESPAs improvements this year include the addition of the Eugene Jud Transportation Library and a charging station. Eugene Jud, a former Cal Poly professor and long-time transportation professor, donated his collection of transportation engineering, planning and policy books to be used for reference and education by ITE members. The charging station includes both laptop and cell phone charging cords to allow for more productivity by students as they collaborate in the TESPAs.

The room has also become the operations center for the Student Chapter, which coordinates its upkeep and maintenance. The TESPAs hosts officer meetings, the Annual Transportation Career Fair Mixer, and serves as a space for transportation companies to interview students.



Chapter Liaison with Professional ITE

Western District ITE Student Leadership Summit

In January 2019, 22 Cal Poly San Luis Obispo students traveled to UC Berkeley for the sixth annual Student Leadership Summit (SLS). The Student Chapter led efforts in membership outreach, coordination of travel logistics, and support of every Cal Poly student's travel to the SLS.

At the start of the Summit, students participated in a walking tour of local innovative bicycle and pedestrian improvements. This tour, led by Kittelson & Associates, opened our students to many creative roadway treatments that increase the safety of non-vehicular modes of travel.

During the Summit, students attended multiple technical sessions from industry representatives and engaged in a group discussion with professionals that allowed members time to get their specific questions answered. Students also participated in various events such as speed interviews, resume reviews and a team activity that allowed our members to dream up their ideal future of public transportation.

The team activity grouped students into teams of five to six and tasked each team with creating a poster that demonstrates public transportation in the future. Our students used their creativity to find many potential transit improvements, focusing on reliability, safety and connectivity. During the evening banquet, teams had the opportunity to present their ideas. The winning team included two of our youngest members, sophomore Kezia Suwandhaputra and freshman Bryant Lee, showing that our student chapter has a bright future with these highly involved underclassmen. Kezia also took home the first place prize in the ITE member Bingo event after an impressive showing in the quick-fire tiebreaker trivia round.

The Summit was a valuable experience, as students were able to expand their student and professional networks to the Bay Area and all of the Western District. Outside of the scheduled activities, the Cal Poly San Luis Obispo ITE Chapter bonded with other schools and professionals!



Central Coast Section, Western District, and International Meetings

Central Coast Section

As mentioned in the Socializing with Industry section, a joint meeting with the Central Coast ITE section is held every May and connects our members directly with local ITE professionals.

In addition, a golfing event is held by the Central Coast Section for the Cal Poly ITE Student Chapter. There is an entry fee for the tournament and all proceeds go towards helping the Student Chapter fund travel for members to participate in the ITE Western District Annual Meeting in Monterey, California in June 2019.



Western District Annual Meeting

Seventeen members attended the ITE Western District Annual Meeting in Keystone, Colorado in June 2018. Prior to the meeting, two Cal Poly SLO student pairs competed in the fun MiteY Race, taking second and third place in the student division. As detailed in the Student Presentations section below, three students gave poster session presentations at the meeting, sharing their hard work and research findings. All attending student members also volunteered at the meeting by selling raffle tickets to raise funds for the Student Endowment Fund or by helping with A/V set up for each technical session.



The Student Chapter also proposed for and led the James H. Kell Student Competition on the first day of the meeting. Our students ran a transit planning game called “Amass Transit” that was initially developed with the help of faculty advisor and professor, Carole Voulgaris. The objective of the game is to lay out a cost effective bus network that promotes the highest levels of ridership. After teams mastered the initial scenario, they were challenged with numerous twists, including City Council politics, the addition of a light rail project, and even the arrival of the evil Empire from Star Wars. The game was received well and our student members enjoyed leading other students through the process.

Our members participated in many activities and received honors and rewards which are summarized in the table below. The meeting in Keystone provided an opportunity for the attending members to learn more about transportation while networking with professionals and students from across the Western District.



Awards Received at the 2018 Western District Meeting
Student Chapter Annual Meeting Award
James H. Kell Student Competition Award: <i>Amass Transit</i>
Student Chapter Web Site Award
Student Chapter Activity Award: Honorable Mention



International Annual Meeting

In July 2018, two members attended the ITE International Meeting in Minneapolis, Minnesota. The members competed in the first annual NOCoE Transportation Technology Tournament. The team consisted of four Student Chapter members with Vanessa See and Kevin Yost presenting at the competition. The team focused on improving pedestrian safety in Detroit, MI through the implementation of Intelligent Transportation Systems and placed as Runner-Ups in the event.



Student Presentations

With support from their professors, several Cal Poly San Luis Obispo students submitted abstracts for the 2018 Western District and International Meetings. Three students presented research and findings at the Western District Annual Meeting, while two students presented their ITS tournament solutions at the International Meeting. The technical programs are listed in the table below.

Name, Career Position	Technical Program
Bernice Liu, Graduate Student Jonathan Howard, Graduate Student	Assessing Complete Streets and Tactical Urbanism Strategies using Microscopic Traffic Simulation Models
Jacky Loh, Graduate Student	Early Empirical Evidence for the Effects of Adaptive Ramp Metering on Measures of Travel Time Reliability
Vanessa See, Undergraduate Student Kevin Yost, Graduate Student	ITS Solutions for Pedestrian Safety in Detroit



Student Chapter Collaboration

In the summer of 2018 Student Chapter members attended a beach social event that brought together ITE student members from multiple Southern California universities, including CSULB, CSUF, UC Irvine, and Cal Poly SLO. This event offered our members the opportunity to bond with like-minded transportation students from our region. Students that connected during this event may end up being coworkers or colleagues in their future.

The Cal Poly SLO Student Chapter is one of the creators of a group message initiated in the summer of 2018 that includes Presidents from a majority of the Western District Student Chapters. This discussion promotes communication and collaboration between student chapters. Chapter Presidents use this forum to plan joint events and keep other student chapters up to date with individual goings-on. We look forward to continuing and strengthening this cross-collaboration in future years.

Student Chapter officers Brian Gaul and Vanessa See currently serve as ambassadors to the Center for Transportation, Equity, Decisions and Dollars (CTEDD), a USDOT University Transportation Center based at University of Texas at Arlington. Brian and Vanessa serve among other CTEDD Student Council Ambassadors from UT, Arlington, University of South Florida and Georgia Institute of Technology. This partnership encourages career development and peer-guidance through yearly discussions and conference calls.

Awards and Honors

Several of our Student Chapter members have received awards throughout the past year. These students were recognized for their outstanding achievements by various foundations, including ITE, California Transportation Foundation (CTF), and Cal Poly Civil and Environmental Engineering Department. Common qualities shared among these students include their strong leadership, involvement outside of the academic realm, and passion for the transportation engineering field. The table below summarizes the awards received by each student.

Name, Year	Award(s)
Brian Gaul, Senior	CTF Education Symposium Scholarship American Council of Engineering Companies LA County Chapter Scholarship
Bernice Liu, Graduate Student	CTF Graduate School Scholarship
Vanessa See, Senior	Eugene Jud Student Award Bimla G. Rhinehart Memorial Scholarship Chris Rockway Scholarship Endowment Ed Sullivan Memorial Scholarship Endowment
Calvin Wang, Junior	Lam Research Engineering Scholarship for Civil Engineering
Alex Deatherage, Junior	Adele Alessio Scholarship Endowment Fund for Civil Engineering

