

NAU ITE Student Chapter Annual Report

2017 - 2018

Northern Arizona University
Institute of Transportation Engineers



Message from the President

This past year the ITE student chapter at Northern Arizona University (NAU) has continued to grow and expand its benefits for all NAU students interested in transportation. We have had members attend and present at conferences such as: TRB, ITE SLS, ITE/IMSA, AZ Roads and Streets, ITS AZ, I-NUF and the ITE Western District Meeting. Additionally, our chapter



has been fortunate to have professionals from all sectors within transportation come to our campus to share their knowledge with our student members. In the past year we have also developed our own unique website, we have represented ITE at a community science fair and a student involvement fair at NAU and we have cleaned up our adopted street in downtown Flagstaff. We are also excited to announce that we will be holding our first ever Microstation workshop and bicycle infrastructure tour in April. As we move forward, we hope to improve on last year's third place finish in the western district student traffic bowl and develop the capability to one day host our own Student Leadership Summit. I would personally like to thank all of our student officers and our faculty advisor, Dr. Edward Smaglik, for volunteering so much of their time to help grow our chapter and expand its benefits for the students here at NAU.

- Sam Taylor, Chapter President

Student Chapter Officers

Faculty Advisor	Dr. Edward Smaglik	edward.smaglik@nau.edu
President	Samuel Taylor	sgt9@nau.edu
Vice President	Ian Rodrigues	id66@nau.edu
Secretary	Ashley Charlton	aec338@nau.edu
Treasurer	Rae Johnson	rnj26@nau.edu
Public Relations	Emmanuel James	elj52@nau.edu

Student Chapter Membership

During this past year we have had a total of 44 students attend our meetings. All of our students enrolled in a civil or environmental engineering academic program are eligible to be members of the institute for a total of 469. Additionally, we currently have two faculty members and nine students that are official institute members. In the future, we plan to continue to encourage our students to apply for official membership within the institute.

Transportation Engineering Enrollment

Northern Arizona University still does not have a transportation specific undergraduate major, but we do offer excellent transportation electives and we have a transportation specific graduate program and research capabilities within our lab, *AZTrans*.

All civil engineering undergraduate students are required to take a basic Traffic Signal Systems class in which they learn about traffic signals and control devices and conduct traffic studies. Students also must take Highway Design, which introduces them to road grade alignments, pavement design, and the AASHTO Green Book.

Each semester, one or more graduate level classes are offered that have a specific focus on areas within transportation. These classes are also open to undergraduate students and may be used to fulfill their elective requirements. Below is a list of our transportation related elective and graduate courses:

- Advanced Traffic Signals – Dr. Edward Smaglik
- Transportation Safety – Dr. Brendan Russo
- Intelligent Transportation Systems – Dr. Edward Smaglik
- Pavement Design – Dr. Chun-Hsing Ho
- Infrastructure Economics – Dr. Brendan Russo
- GIS for Engineering and Construction – Dr. Chun-Hsing Ho
- Heavy Civil and Highway Construction – Dr. Chun-Hsing Ho

Currently, there are 469 students total in civil and environmental engineering department at Northern Arizona University. Out of these students, 92 are freshman, 97 are sophomores, 93 are juniors, 177 are seniors, and 10 are graduate students. 430 are full time and only 39 are part time students. Our chapter has been working towards introducing the Institute of Transportation Engineers to not only civil engineering majors, but to all engineers. We recognize that transportation is not exclusively civil and therefore, we have attended various outreach activities with this goal in mind. While we have yet to get an active member from outside the field of civil engineering, we believe that with continued engagement within our student body and the Flagstaff community, that we will be able to develop a more academically diverse member base.

Student Chapter Activities

General Meetings

The majority of our general meetings are meant to introduce students to projects, activities, and jobs within the professional world of transportation engineering. We have been active in engaging professionals in Flagstaff, Phoenix, and the Western district. This year we have had speakers from both the public and private sectors in Arizona and from professional leaders within AZ ITS and ITE. Our primary goal as an organization is to introduce students to ideas and prospects related to transportation that may not be available or taught within the classroom. We feel that the list of activities and general meetings that we have put together this past year have effectively accomplished this goal. A list of the general meetings we have held or have scheduled for this year is displayed below:

9/14/17 Karen Aspelin and Jenny Grote – ITE Western District

For the first general meeting, Karen Aspelin, who is the current Western District International Director and Jenny Grote, who is a past Western District President came to talk to our students about the opportunities that ITE offers professionals and students within the various fields of transportation engineering.

10/2/17 Yung Koprowski – Y2K Engineering

Yung came to our NAU ITE meeting to discuss the challenges and opportunities associated with starting her own business in transportation in Arizona. She discussed some of her past successful projects and the steps she took to advance her career.

10/5/17 Leslie Bubke – Scottsdale TMC and David Lucas - Tempe TMC

For this meeting, NAU ITE collaborated with ITS AZ to bring David and Leslie to NAU to discuss operations along with current and future projects within their respective city Traffic Management Centers down in the valley.

11/2/17 Dave Bruggeman - Lee Engineering and Jeff Bauman - City of Flagstaff

Dave and Jeff teamed up to present survey information on income logistics for entry to senior level engineers within the public and private sectors. They also responded to many questions that our members had regarding these topics.

11/30/17 Ken Smith – HDR

Ken Smith, the Senior Vice President at HDR, came to NAU to present on the progress of the south mountain freeway project in Phoenix and discuss the benefits of public-private partnerships within infrastructure economics.

2/1/18	PJ McKelvey and Brent Allman – ADOT	
	PJ and Brent are both recent NAU graduates who successfully completed ADOTs EIT program. They came to NAU to discuss what the EIT program entails and the various opportunities for civil engineers within ADOT.	
2/13/18	Cassie Kussow and Shane Johannsen – Kimley-Horn	
	This was a joint meeting, held for both ASCE and ITE student members. Kassie and Shane came to NAU to discuss the different types of projects that Kimley-Horn is involved with throughout the country and the job opportunities that they are currently recruiting for.	
3/15/18	Stephen Doubek – WSP	*Scheduled
	Stephen is planning to come up to NAU to present on projects that WSP has been working on in the area and on the advantages and challenges associated with working for a large, international, consulting company.	
4/12/18	Jordan Kurlin – ADOT	*Scheduled
	Jordan has volunteered to run a short workshop on the basics of using Microstation for roadway design. This will be our schools first official lesson on Microstation and we are planning to make it a reoccurring annual workshop for our students.	
4/19/18	Cynthia Alvarez – Burgess and Niple	*Scheduled
	Cynthia is a recent NAU graduate who has just passed her PE and has immediate experience as an entry level engineer with a private consulting company. She plans to share her experiences and accomplishments with our students in April.	

Officers Meetings

We generally schedule officer meetings during the weeks that we do not have our general meetings. These meetings are designed to make sure all officers are up to date on upcoming events and to develop tasks to keep our club running smoothly.

Workshops

In order to provide more professional development opportunities for our members we have scheduled a Microstation workshop for later this year during one of our general meetings. We are also considering doing a resume and cover letter work shop with our career advisor, Elizabeth Glass. Another workshop that we have considered running and may be in the works is an ArcMap/GIS workshop which is useful for planning and mapping of roadway projects.

Community Development

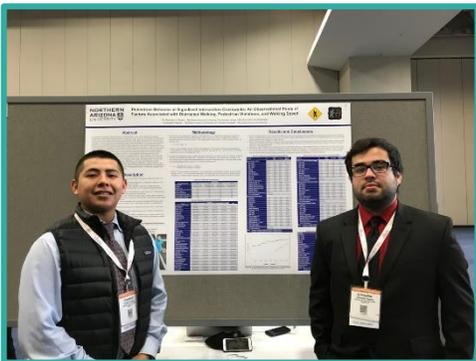
Our chapter helped run a traffic engineering outreach booth during Flagstaff's Science week in September of 2017. Additionally, we manned a booth at the student involvement fair at the beginning of last Fall semester to recruit new members. We plan to continue our outreach and public awareness campaigns by attending and representing ITE at Flagstaff's community STEM Celebration in March, 2018.

We have also adopted a busy road in downtown Flagstaff that we are responsible for maintaining. We have a clean-up effort scheduled in March.



Professional Conferences

Our club has been fortunate to have members in attendance at seven different professional conferences across the country including the 2018 Annual TRB Meeting, the 2017 ITE Western District Meeting, the 2018 ITE Student Leadership Summit, and the 2017 Arizona ITE/IMSAs Conference. We would like to note that it would not be possible to attend these conferences without support from the Pacific Southwest Region UTC, the Arizona ITE section, and other private sponsors. Below are a few pictures from our experiences at these conferences:



Student Membership

The following list names every person to attend a meeting during Fall 2016-Spring 2017.

Name	Year in School	Email
Ashley Charlton	Senior	aec338@nau.edu
Emmanuel James	Junior	elj52@nau.edu
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Ian Tso	Senior	Imt22@nau.edu
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Stein Wiederholt	Sophomore	Sgw62@nau.edu
Savannah Rawlings	Freshman	Sar493@nau.edu
Russell Collins	Freshman	rjc@nau.edu
Bret Brooks	Junior	Bnb238@nau.edu
Matt Rollins	Junior	Mjr362@nau.edu



For further information, visit: nau-ite.weebly.com.