

The Tennessee Section of ITE is pleased to submit our Annual Section Report outlining activities in 2020 that supported professional development, growth of the traffic and transportation industry, promoting safe and efficient flow of people, goods, and other services that support our mission.

#### 2020 Officers

President	Nathan Vatter	615-741-0995	nathan.vatter@tn.gov
Vice President	Stephen Edwards	901-636-6710	stephen.edwards@memphistn.gov
Secretary	Luke Dixon	615-423-0993	luke.dixon@arcadis.com
Section Administrator	Brandon Baxter	615-244-8591	bbaxter@ragansmith.com
Section Rep. (20-21)	Zane Pannell	615-350-4332	zane.pannell@tn.gov
Section Rep. (19-20)	Steve Bryan	615-741-2152	steve.bryan@tn.gov
Immediate Past President	Amy Burch	615-258-8551	amyburch@burchtransportation.com

### **Regular Meetings**

#### **Local Section Meetings in 2020**

Meeting #1	Chattanooga Section Luncheon Meeting	Date: January 10, 2020 Attendees: 13 members
Meeting #2	Chattanooga Section Luncheon Meeting	Date: January 10, 2020 Attendees: 8 members
Meeting #3	Chattanooga Section Virtual Teams Meeting	Date: July 9th, 2020 Attendees: 8 members
Meeting #4	Nashville Section Luncheon at TN DOT with Guest Speaker Brandon Baxter	Date: January 17, 2020 Attendees: N/A
Meeting #5	Nashville Section Webinar for Chattanooga, Memphis, Knoxville, Nashville, and Tri-Cities	Date: March 10, 2020 Attendees: N/A

#### **TSITE Quarterly Section Meetings in 2020**

In 2020 due to COVID-19 we had 1 in person meeting and 3 virtual meetings. Two of the virtual meetings were jointly held with AASHTO, TDOT, FHWA, and ITS TN.

Meeting #1	Winter Meeting	Date: February 12, 2020
	Memphis, Tennessee at The University of Memphis	Attendance: 52
	Meeting included 3 Presentations, STEM Academy Poste	r Session, Traffic Bowl, and
	Business Meeting	

- "Complete Streets: Promises and Proof" / Sam Jordan, University of Memphis
- "Memphis Traffic Calming Program" / Wain Gaskins, Cannon & Cannon
- Innovation and Advanced Technologies in Transportation and Logistics / Suman Kharbanda, FedEx Corp



East High T-STEM Academy "Poster Session and Networking"

Student Traffic Bowl

Meeting #2 Spring Meeting

Virtual Microsoft Teams Attendance: 126

Joint Virtual Meeting with AASHTO included 3 Presentations and Business Meeting

"Chattanooga's Data Analytics Work during Disruptive Events" / Kevin Comstock –
 Smart City Director, City of Chattanooga

• "An update from TDOT's Bureau of Environment and Planning" / Preston Elliott – Deputy Commissioner, Tennessee Department of Transportation

 "Kirby Whitten (Shelby Farms) Parkway: A Holistic Transportation Solution for One of America's Largest Urban Parks" / Stephen Edwards – Transportation Planning Program Manager, City of Memphis

Meeting #3 Summer Meeting Date: July 22-24, 2020

Virtual Microsoft Teams Attendance:

Day 1 – 139 Day 2 – 92 Day 3 - 85

Date: May 19, 2020

Virtual Meeting included 7 Presentations, Awards & Business Meeting

• "Walking and Biking in Memphis" / Nicholas Oyler, City of Memphis

 "An update from TDOT's Bureau of Environment and Planning" / Jessica Rich, Federal Highway Administration

• "Mayor John Cooper's Metro Nashville Transportation Initiatives" / Faye DiMassimo, Metro Nashville

 "Evaluation of Crowdsourced Event Reports for Real Time Implementation – Spatial and Temporal Accuracy Analysis" / Yuandong Liu, University of Tennessee – Knoxville

 "Estimating Geographically and Temporally Weighted Regression Models to Develop Safety Functions for Multilane Rural Highways in Tennessee" / Amin Mohammadnazar, University of Tennessee – Knoxville

• "The Evolving Nature of Transportation for People with Disabilities in Tennessee" / James Brown, Special Projects Office, TDOT

• "I-440 Reconstruction, From Preparation to Execution"/ Clayton Markham TDOT

Meeting #4 Fall Meeting Date: Oct 27-29, 2020

Virtual Microsoft Teams Attendance:

Day 1 – 291 Day 2 – 268 Day 3 - 256

Joint Virtual Meeting with TDOT, FHWA and ITSTN with 14 presentations and Business Meeting

- "Impacts of COVID-19 Traffic Analysis, Safety Impacts, TMC/HELP Operations" / Ben Price, Adam Moncivaez, Nathan Vatter, TDOT
- Traffic Operations Division Research Project Showcase
  - o "Work Zone Alert Systems" Dr. Sabya Mishra
  - o "Traffic Queue Prediction and Warning Systems" Dr. Lee Han
  - "Coordinating Stat from the CRASH Predictive Analytics Program" Dr. Abhishek Dubey



- "Local Road Safety Plan" / Ken Kochevar, FHWA California Division Office
- "Memphis Innovation Corridor"/ James Collins, Kimley Horn and Associates
- "Preview of TDOT's Highway System Access Manual"/ Jon Storey, PE, PTOE Gresham Smith
- "Predicting Safety at the Design Stage: HSM and IHSDM"/ Peter Kauffman, Barge Design Solutions
- Street Smarts Panel "Engineering Transportation Systems that Provide Safety, Mobility, and Prosperity "/Panelist: Matt Meservy, PE – TDOT Long Range Planning Division, Jason Ivey – Tennessee Highway Safety Office, Bob Murphy, PE, PTOE, RLS – KCI Technologies
- "Adaptive Ramp Meter A Probabilistic Approach"/ Himanshu Wad Q-Free America, Robert Everman – WSDOT, Jason Lefler – WSDOT
- "Unlocking the Power of Big Data to Keep Drivers and Roadways Safe"/ Terri Johnson – INRIX Public Sector Services
- "Utilizing Crowd Sourced Data to Gain Insights on the State of Your Roads"/ Patrick Law – Blyncsy
- "TMC Operations: Smarter. Faster. Better"/ Carla W. Holmes, PE, PTOE Gresham Smith
  - Brett Sellers, PE ALDOT
- "Memphis Innovation Corridor ITS Elements of a Bus Rapid Transit System" / Doug Swett, and Zhiyong Guo, PE, PTOE – Kimley Horn and Associates
- "Connected Autonomous Vehicle: Tennessee State of the Practice"/ Lee Smith, TDOT
- "Work Zone Initiatives"/ Jay Norris, TDOT

### Students and Younger Members Support (Scholarships, Student Leadership Summit and Mentoring)

In 2020 TSITE Board added the Bill Hart Scholarship and raised the scholarship funding levels for other student scholarships and delivered all 6 awards in 2020 for \$10,500. Following the awards ceremony at our Virtual Summer Meeting, the Board received numerous correspondences of appreciation from all the students who were awarded scholarships messages of thanks from their faculty advisors and professors. The TSITE Board shared the appreciation with our membership who made contributions in 2020 to support our next generation of Transportation Professionals.

### **TSITE Scholarships for the 2020-2021**

William L. Moore, Jr. TSITE Scholarship	Caroline Janssen	Vanderbilt University	\$2,000
John R. Harper Memorial Scholarship	Mojdeh Azad	University of Tennessee	\$2,000
Bill M. Hart Memorial Scholarship	Yi Wen	University of Tennessee	\$2,000
T. Darcy Sullivan Scholarship	Nitesh Shah	University of Tennessee	\$1,500
Bill D. Kervin, Jr. TSITE Scholarship	Nima Hoseinzadeh	University of Tennessee	\$1,500
TN Section Undergraduate Scholarship	Kailey Newcome	Vanderbilt University	\$1,500

Total Awarded

\$10,500

TSITE also awarded \$500 for 1<sup>st</sup> Place, \$250 for 2<sup>nd</sup> Place and \$100 for 3<sup>rd</sup> place in the student paper competition. All recipients of student scholarships and paper competition were invited to attend the Summer Meeting at no charge. The summer meeting offers networking and technical knowledge opportunities for students.



In 2020, TSITE sponsored a Senior Design Project Award for the University of Tennessee's Senior Day for Spring and Fall semesters. TSITE members reviewed the senior design projects and selected a team to receive the TSITE Award. Also, a TSITE representative attended the events and awarded the winning team members.

The Career Development Committee provided outreach and support for each of the student chapters throughout the year and TSITE supported the Student Leadership Summit held at Georgia Tech from February 28-March 1 by sending 4 members along with Students in 2020.

**Application of Technical Knowledge** – Several technical sessions were given at our meetings included applications of cutting-edge transportation elements. One great example was Suman Kharbanda, Director of Operations Planning & Technology, for FedEx Corp discussing "Innovation and Advanced Technologies in Transportation and Logistics".

**Networking Events** – Events for networking in 2020 included Sponsoring awards for UTK Senior Design Project, Chat rooms for importance of joining a professional organization, and hosting 3 quarterly meeting that were jointly held with AASHTO, TDOT, FHWA and ITS TN.

**K-12 STEM Outreach** – Several TSITE members, particularly in the Memphis area, regularly engage with high school students at the T-Stem Academy ("T" for Transportation). Other 2020 events included hosting East High T-STEM Academy "Poster Session and Networking" at our 2020 Winter Meeting in Memphis. TSITE members serve on advisory board for the T-STEM Academy and for the Southeast Transportation Workforce Center. In this capacity, TSITE members created the Distracted Driving Challenge and deployed it at the annual Choosing Transportation Summit held in Memphis on March 4-5, 2020. The competition included more than 50 students from T-STEM, Crosstown, and Hardeman County high schools. TSITE members served as competition developers and judges. The event was such a success that it was selected to become ITE's official event for Innov8 Day 2020 (<a href="https://www.ite.org/technical-resources/councils/transportation-education-council/science-technology-engineering-and-math-stem-resources/#STEMDay">https://www.ite.org/technical-resources/councils/transportation-education-council/science-technology-engineering-and-math-stem-resources/#STEMDay</a>). TSITE members also took part in the speed networking event for students to share information about their career paths as well as a career fair.

**New Member Recruitment** - TSITE added 38 new members after hosting several joint virtual meetings with AASHTO, TDOT, FHWA and ITS TN in 2020. This brings our membership total to 360 members. In December TSITE hosted a chat room for the UT students to emphasize the importance of joining a professional organization.

**Diversity and Inclusion** – TSITE embraces diversity and inclusion in all aspects of our organization including valuing a balanced and diverse Executive Board to serve our members and by providing inclusion for STEM activities in diverse areas of our State. TSITE members were also active participants in the 2020 Choosing Transportation Summit's Women in Transportation Working Group on March 4, 2020. The group developed an action plan for increasing the number of women pursuing transportation professions and for providing networking and other support to retain women currently in transportation careers.

**Training/Professional Development** - In 2020 TSITE held both in person and virtual meetings due to COVID-19. Two of the virtual meetings were jointly held with AASHTO, TDOT, FHWA, and ITS TN. These meetings provided a total of 29 sessions and 21.5 professional development credit hours. Traditionally



our summer meeting is the largest attended meeting and while the summer meeting was well attended with 139 attendees on Day 1, our joint sessions in the Fall had over twice as many attendees with 291 persons on Day 1.

**Field Trips/Technical Tours** – 2020 Opportunities for Field Trips were limited after March due to COVID-19. Following the Winter Meeting in Memphis a group including the Section President, former Section Representative and three other TSITE members attended a Memphis Grizzlies NBA game, see group photo.

**Service Projects** – In 2020 TSITE lead a Service Project for a distracted driving PSA student contest. The PSA winners were recognized at our July 23<sup>rd</sup> Virtual Summer Meeting where 1<sup>st</sup> and 2<sup>nd</sup> place winners won cash prizes totaling \$800 for their efforts and creativity. The Section then shared these PSAs on the TSITE website, Socials, email blast and at the summer meeting.

**Funding Support** - TSITE instituted a Tiered Annual Sponsorship program, which is now included in an updated Operations Manual. Previously, TSITE would make various requests for sponsorship of meetings and events throughout the year. Now a call for sponsorship occurs in January and sponsorship is received and recognized according to specified tiers. The 2020 Annual Sponsorship Total was \$9,750, which went towards supporting the activities of ITE student chapters including the traffic bowl and leadership summit travel. TSITE members also contributed to the student scholarship fund in 2020. In past years, we held golf tournaments and auctions and while that was not possible in 2020 due to COVID-19, our members still made voluntary donations at the Summer Meeting supporting our efforts.

Recipient	School & Student Chapter		Amount
Sameer Aryal	University of Tennessee ITE Student Chapter		\$315
Nitesh Shah	University of Tennessee ITE Student Chapter		\$315
0 TSITE Scholarship R	aninianta	TOTAL:	\$630
Recipient	School	Scholarship	Amount
Caroline Janssen	Vanderbilt University	Bill Moore	\$2,000
Moideh Azad	University of Tennessee	John Harper	\$2,000
Yi Wen	University of Tennessee	Billy Hart	\$2,000
Nitesh Shah	University of Tennessee	T. Darcy Sullivan	\$1,500
Nima Hoseinzadeh	University of Tennessee	Bill Kervin	\$1,500
Kailey Newcome	Vanderbilt University	TSITE Undergraduate	\$1,500
			4.0,000
O TSITE Student Paper		Daner Competition	\$10,500
Recipient	School	Paper Competition	Amount
Recipient Yuandong Liu	School University of Tennessee	1st Place	Amount \$500
Recipient Yuandong Liu Zhihua Zhang	School University of Tennessee University of Tennessee	1 <sup>st</sup> Place 2 <sup>nd</sup> Place	\$500 \$250
Recipient Yuandong Liu	School University of Tennessee	1 <sup>st</sup> Place 2 <sup>nd</sup> Place 3 <sup>rd</sup> Place	\$500 \$250 \$100
Recipient Yuandong Liu Zhihua Zhang	School University of Tennessee University of Tennessee University of Tennessee	1st Place 2nd Place 3rd Place TOTAL:	Amount \$500 \$250 \$100 \$850
Recipient Yuandong Liu Zhihua Zhang min Mohammadnazar	School University of Tennessee University of Tennessee University of Tennessee University of Tennessee Ion School	1 <sup>st</sup> Place 2 <sup>nd</sup> Place 3 <sup>rd</sup> Place	\$500 \$250 \$100 \$850
Recipient Yuandong Liu Zhihua Zhang min Mohammadnazar  O TSITE PSA Competiti Recipient Caroline Janssen	School University of Tennessee University of Tennessee University of Tennessee	1 <sup>st</sup> Place 2 <sup>sot</sup> Place 3 <sup>rd</sup> Place TOTAL:	### Amount   \$500   \$250   \$100   \$850   \$850   \$1250
Recipient Yuandong Liu Zhihua Zhang min Mohammadnazar O TSITE PSA Competiti Recipient Caroline Janssen Alexander Stephens	School University of Tennessee  Ion School Vanderbilt University Vanderbilt University	1st Place 2st Place 3rd Place 3rd Place TOTAL:	### Amount   \$500   \$250   \$100   \$850   \$850   \$125   \$12
Recipient Yuandong Liu Zhihua Zhang min Mohammadnazar  O TSITE PSA Competiti Recipient Caroline Janssen	School University of Tennessee University of Tennessee University of Tennessee University of Tennessee Vanderbit University Vanderbit University	1 <sup>st</sup> Place 2 <sup>st</sup> Place 3 <sup>st</sup> Place TOTAL:  PSA Competition 1 <sup>st</sup> Place 1 <sup>st</sup> Place	Amount \$500 \$250 \$100 \$8500 \$8500 \$100 \$8500 \$125 \$125 \$125 \$125
Recipient Yuandong Liu Zhihua Zhang min Mohammadnazar  To TSITE PSA Competiti Recipient Caroline Janssen Alexander Stephens Swapnil Pande	School University of Tennessee University of Tennessee University of Tennessee University of Tennessee Ion School Vanderbilt University Vanderbilt University Vanderbilt University Vanderbilt University	1" Place 2"d Place 3" Place 3" Place TOTAL:  PSA Competition 1" Place 1" Place 1" Place	\$500 \$250 \$100 \$850 \$850 <b>Amount</b> \$125 \$125 \$125 \$125
Recipient Yuandong Liu Zhihua Zhang min Mohammadnazar  To TSITE PSA Competit Recipient Recipient Alexander Stephens Swapnil Pande Jesse Liu	School University of Tennessee University of Tennessee University of Tennessee University of Tennessee  Ion School Vanderbiit University Vanderbiit University Vanderbiit University Vanderbiit University Vanderbiit University	1 <sup>11</sup> Place 2 <sup>20</sup> Place 3 <sup>12</sup> Place TOTAL:  PSA Competition 1 <sup>11</sup> Place 1 <sup>11</sup> Place 1 <sup>12</sup> Place 1 <sup>14</sup> Place	Amount \$500 \$250 \$1100 \$8500 \$125 \$125 \$125 \$125 \$75
Recipient Yuandong Liu Yuandong Liu Zhihua Zhang min Mohammadnazar 10 TSITE PSA Competit Recipient Caroline Janssen Alexander Stephens Swapnil Pande Jesse Liu Zhihua Zhang	School University of Tennessee University of Tennessee University of Tennessee University of Tennessee Ion School Vanderbit University Vanderbit University Vanderbit University Vanderbit University University of Tennessee University of Tennessee	11º Place 2ººº Place 3ºº Place 3ºº Place TOTAL:  PSA Competition 1º Place 1º Place 1º Place 1º Place 2ºº Place	Amount \$500 \$250 \$100 \$850 \$125 \$125 \$125 \$125 \$125 \$125 \$175 \$175
Recipient Yuandong Liu Zhihua Zhang min Mohammadnazar  To TSITE PSA Competit Recipient Caroline Janassan Alexander Stephens Swapnil Pande Jesse Liu Zhihua Zhang Yi Wen	School University of Tennessee Ion School Vanderbilt University Vanderbilt University Vanderbilt University University of Tennessee	11º Place 2ºd Place 3ºd Place 3ºd Place TOTAL:  PSA Competition 1ºd Place 1ºd Place 1ºd Place 2ºd Place 2ºd Place	\$500 \$250 \$100 \$850

Total 2020 Student Member Financial Support: \$12,780

**LeadershipITE** - Nearly all TSITE's LeadershipITE alumni currently hold a committee chair position or officer position for TSITE or SDITE. This year Mr. Terrance Hill from TSITE was nominated and accepted to participate in the 2021 class. While TSITE does not currently offer financial support for LeadershipITE tuition, our board is reviewing future grants or sponsorships to support this effort.

**Advocacy** - TSITE's Legislative Committee tracks and provides updates about national and local issues, legislation, and regulations that may be of interest or impact the transportation industry. Typically, these updates are provided during the business meetings at the quarterly meetings.



#### Photos from 2020

