

INSTITUTE OF TRANSPORTION ENGINEERS

Section Annual Report for ITE's Tennessee Section (TSITE)



January 1, 2008 – December 31, 2008

2008 Board of Directors

President: Stephen Meyer, PE
Vice President: Kevin Cole, P.E.
Audit: Chris Kirby, P.E.
Secretary/Treasurer: Kevin Cole, PE
Affiliate Director: Dan Vincent
Past President: Greg Judy, PE, PTOE

Section Representatives:

Cindy Pionke ('07-'08)
Becky Bottoms ('08-'09)

2008 Committee Chairs

Career Development: Stephanie Hargrove
Legislative: Steve Allen
Membership: Steve Bryant, P.E.
Nominations: Greg Judy, PE, PTOE
Scholarship: Greg Judy, PE, PTOE
Scholarship Challenge: Greg Judy, PE
Awards: Greg Judy, PE, PTOE
Technical: Steve Bryant, P.E.
Section Relations:
Website - Jeff Hammond
Newsletter – Chris Cowan

Membership

TSITE actively promotes full membership in ITE (over 90% of total membership are International members). The Section continued to utilize a custom-made Affiliate membership pamphlet it created to attract additional members.

TOTAL MEMBERSHIP: 340

Number	Membership Grade	Annual Dues
14	Fellow Life	\$0
23	Fellow	\$15
4	Member Life	\$0
191	Member	\$15
0	Honorary	\$0
7	Esteemed Colleague	\$15
23	Institute Affiliate	\$15
74	Student Member	\$15

Membership Facts:

340 total members.

124 (36%) are consultants.
111 (33%) are government employees.
74 (22%) are students.
16 (5%) are educators.
12 (4%) are vendors.
2 (1%) are retired.
18 (5%) are ITE Life members.

Financial

TSITE's Federal Employer Identification Number is 33-1015132. The organization is not classified as a *non-profit*.

Balance of funds on hand January 1, 2008: **\$11,214.36**

Income for Year 2008:

Membership Dues:	\$3,267.00
Meeting income:	\$6,200.00
Investment income:	\$0
Advertising income:	\$0
District reimbursement:	\$405
Scholarship income:	\$5,030.00
Total Income:	<u>\$15,235.00</u>

Expenditures for Year 2008:

Printing/postage:	\$460.22
Meetings:	\$7,287.73
Special projects:	\$0
Awards:	\$690.87 (student paper & member awards)
Scholarship fund:	\$5,690.00 (transfer from checking acct to fund)
Webinars:	\$2,300.00
SDITE Scholarship Bowl:	\$667.70
Student Reimbursements:	\$406.34

Total Expenditures: \$17,502.86

Net Income (Expense): \$(2,267.86)

Balance of funds on hand December 31, 2008: **\$8,946.50**

There was no change in the Section Bylaws in 2008.

We are proud of our Section's ability to maintain among the lowest dues in the District (\$15) while keeping the average 1-day meeting registration cost at \$20 and ever-increasing our technical education seminars to our members. You will also notice our continued emphasis on student scholarship fundraising through our annual auction. Student registration for all meetings remains free, and some student travel/accommodations costs are also provided at no charge to the students.

Technical Activities

Tennessee Section of ITE feels the foundation of our organization centers around its technical initiatives. We have strived to increase these opportunities to our members. The root of our organization's technical activity is found in four quarterly meetings held throughout the state. In addition, we have significantly advanced our technical offerings by instituting a *Technical Webinar Program* and partnering with others to sponsor technical education opportunities.

The TSITE Technical Committee under the leadership of Steve Bryan has been very active this year. They had seven (7) meetings during the year and made considerable progress with their technical agenda. **Task #1** was to Develop TIS Recommended Practices for Smaller Communities. The end product of this task was to produce a flyer which could be sent to the Tennessee Municipal League and the Tennessee Counties Association. **Task #2** was to Review the SDITE Technical Information gathered from Tennessee web sites in 2007 and consider adding and maintaining the technical information on TSITE's web site. **Task #3** was to Research the level of effort necessary to host a one-day, TSITE sponsored Professional Development Day.



A full discussion of these activities is included in the Appendix.

In summation, the following lists the significant technical initiatives and activities completed by TSITE in 2008:

Section Meeting Technical Presentations

Winter Meeting (Memphis)

- *Freight -- the 800 lb Gorilla* – Dr. Martin Lipinski, PhD, PE, PTOE, of Memphis University discussed the issue of freight shipments and the impact on the transportation system in the South.
- *New Equipment for Traffic Installations* – Mike Vickery of Temple and sons discussed the use of new additions to magnetometer detection techniques.
- *Update on the Memphis MPO Long Range Transportation Plan* – Kenneth Monroe, P.E. and Zhiyong Guo, PE, PhD of Kimley Horn and Associates discussed the process they used for the MPO in Memphis.
- *Memphis Smartway System: Traveler Information* – Greg Dotson, P.E. and Steve Mosher, P.E., PTOE, of Gresham, Smith and Partners discussed the use of Dynamic Message Signs, Highway Advisory Radio and other features to inform drivers in Memphis.

Spring Meeting (Johnson City)

- *The Pros and Cons of Video Detection* – James Vig Sherrill, Pres. and CEO of Aldis Corp., Oak Ridge, TN discussed their uses of video detections with problems and solutions.
- *Minimum Retro Reflectivity of Street Signs* – Ben Taylor of the City of Chattanooga Traffic division discussed the process the City is using to comply with the Federal requirements on Retro Reflectivity for signs throughout the City.
- *Design Aspects Related to Construction and Implementation* – Dan Vincent of Quality Traffic in Nashville reviewed several of the problems and solutions when the plans create problems in the field on signal installations.

- *King Abdullah Road Corridor* – John F. Gould, PE and Hollis Loveday, PE, of Wilbur Smith Associates in Knoxville discussed the unusual nature of designing and implementing a roadway design in Saudi Arabia.

Summer Meeting (Montgomery Bell State Park, Nashville)

- *The I-40/81 Corridor Feasibility Study* – Teresa Estes of the Tennessee Department of Transportation in Nashville discussed the long range planning for this corridor which incorporated all forms of transportation including cars, truck and freight on highways and waterways in Tennessee.
- *NEMA TS-2 Traffic Controllers and Cabinets* – Mike Shea who is the Eastern Region Sales Manager for Econolite/Safetran from Richmond, Kentucky spoke on the revisions from the TS-1 traffic control cabinets to the TS-2 cabinets with the advantages and disadvantages.
- *History of Aviation in Tennessee* – Said El Said, PE who is a Transportation PhD Student Civil Engineering Department at the Vanderbilt University in Nashville discussed the issues of development of aviation in Tennessee. He was the Student Technical Paper Award Winner.
- *Roadway Connectivity* – Jeff Hammond of RPOM Transportation Consultants, LLC of Brentwood, Tennessee provided insights into subdivision and commercial developments and ways to better connect the roadways for smoother and safer operations.

Fall Meeting (Joint Meeting with the Alabama Section ITE in Chattanooga)

- *School Bus Seat Belts – the Alabama Pilot Project* – Daniel Turner, PE, Ph.D., University of Alabama in Tuscaloosa gave a very interesting presentation on what his team is finding on safety in school buses in Alabama.
- *Dynamic Message Signs, Innovations and Applications* – Don Hicks and Casey Crabtree of DAKTRONICS Corporation discussed the techniques their firm is using to improve dynamic message sign information and operation.
- *Traffic Management Strategies for Hurricane Evacuations in the Southeast* – Virginia P. Sisiopiku, Ph.D. from the University of Alabama Birmingham in Birmingham, Alabama discussed the different methods the DOTs in Alabama, Mississippi are approaching evacuating hundreds of thousands of people prior to hurricane impact.
- *Video Technology, IP Encoding & Network Design Parameter Overview* – Jan Seigler of Cohu Electronics in Atlanta Georgia discussed the newest technologies for communicating with field equipment for traffic control.
- *SALTEENS - An ALSITE Service Project* – Becky Malenke, PE, Service Committee Chairperson for ALSITE discussed how their committee involved high school students in being safer drivers.
- *Chattanooga to Nashville Maglev Feasibility Study* – Brian Whitaker, PE of ARCADIS in Chattanooga discussed the planning and analyses for the proposed Maglev train proposed to travel from Atlanta to Chattanooga.
- *TDOT Work Zone Safety & Mobility Initiative* – Dyan Damron, PE of Neel-Schaffer in Nashville discussed specific approaches and processes of TDOT's program in Work Zones.
- *Market Street Bridge Renovation* – Jim Floyd, PE of Volkert & Associates in Chattanooga, discussed the different phases of construction and how Volkert solved problems on a 100 year old bridge in Chattanooga.

- *New Directions in Urban Street Design* – Jonathan Haycraft, PE of Gresham, Smith and Partners in Nashville presented how more design firms are approaching urban design to make the roadways more pedestrian and bicycle friendly.

2008 TSITE Webinar Program

In its first full year, TSITE began this new education program for its members and friends. These functions allowed attendees to take part in webinar sessions from ITE, ASCE and NSPE at no charge. TSITE members opened their facilities and often provided free lunches for all in attendance.

Transportation Impact Analyses for Site Development Web Briefing (ITE)

Date: 2/12/08

Site Locations (2): Nashville and Knoxville

Total Attendees: 25

Overview 2007 Notice of Proposed Amendments to MUTCD Web Briefing (ITE)

Date: 3/24/08

Site Locations (4): Chattanooga, Johnson City, Knoxville, Memphis, Nashville

Total Attendees: No Attendee Register

Application of the National Unified Goals for Traffic Incident Management Web Briefing (ITE)

Date: 4/23/08

Site Locations (4): Chattanooga, Jackson, Knoxville, Nashville

Total Attendees: 30

Access Management Principles and Practices Web Briefing (ITE)

Date: 6/24/08

Site Locations (2): Chattanooga, Knoxville

Total Attendees: 22

Update to Trip Generation Research Efforts Web Briefing (ITE)

Date: 9/24/08

Site Locations (5): Chattanooga, Johnson City, Knoxville, Memphis, Nashville

Total Attendees: 38

Access Management Principles and Practices Web Briefing (ITE)

Date: 10/08/08

Site Locations (2): Nashville, Johnson City

Total Attendees: 13

Attendance at all Meetings: 108*

*Does not include the Webinar on 3/24/08

Legislative Activities

This year's TSITE Legislative Committee includes the following.

TDOT was working heavily on funding of roadways across the state. Next year the legislature will be considering possibly funding two Toll Projects through the Tennessee Tollway Act. The legislation authorized TDOT to study and present to the General Assembly candidates for pilot toll projects. The legislation provided for the possible selection of one "highway" toll project and one "bridge" toll project. The legislation also required TDOT to hold public meetings across the state on the concept of tolling. Three such meetings were held in 2008.

Two had very low attendance and one (Knoxville) had more attendance because of interest in a local project.

With President Obama being elected, it is anticipated that there will be considerable activity on transportation projects this year.

Meetings

TSITE 's four regular monthly meetings are a staple of our membership's technical activity. In addition, three local areas (Nashville, Knoxville and Chattanooga) hold monthly breakfast or lunch gatherings. Overall, there were more than 35 opportunities and occasions for TSITE members to come together at state or local functions (not including webinars, workshops or joint meetings with other organizations). The President, Steve Meyer, last year selected four "Local Champions " to invite speakers and suggest topics for discussion to encourage more TSITE members to participate in TSITE meetings: Patrick Smith in Memphis, Sean Coleman in Nashville, John Van Winkle in Chattanooga, Mark Geldmeier in Knoxville and Jason Carder in the Tri-cities area.

Meeting: TSITE Winter Meeting

Date: February 7, 2008 Location: Holiday Inn Select-East, Memphis, Tennessee

Purpose - TSITE's annual Winter Meeting:

- Technical sessions
- held in conjunction with a student chapter,
- business meeting,
- student chapter introduction/interaction

Technical Component: 4 technical sessions (see Technical Activities section)

Attendance: **42** TSITE members and students

Meeting: TSITE Spring Meeting

Date: April 23, 2008 Location: Holiday Inn, Johnson City, Tennessee

Purpose - TSITE's annual Winter Meeting:

- Technical sessions
- held in conjunction with a student chapter,
- business meeting,
- student chapter introduction/interaction

Technical Component: 4 technical sessions (see Technical Activities section)

Attendance: **33** TSITE members and students

Meeting: TSITE Summer Meeting

Date: July 31-August 1, 2008
Nashville

Location: Montgomery Bell State Park,

Purpose - TSITE's annual Summer Meeting:

- Technical sessions
- Auction for scholarship fundraising,
- Tallying and Results of annual board elections,
- Award of student paper winners, scholarships and student chapter award,
- Student paper winners present their paper

Technical Component: 4 technical sessions including student paper winners (see Technical section)

Attendance: **69** TSITE members, students, and guests

Meeting: TSITE Fall Meeting/Joint Meeting with ALSITE

Date: October 23-24, 2008

Location: Chattanooga Choo-Choo, Chattanooga

Purpose - TSITE's annual Fall Meeting and Joint Meeting with ALSITE:

- Technical sessions
- Business meeting
- Presentation of annual Section Awards,
- Oath of Office for newly elected Board

Technical Component: 8 technical sessions (see Technical Activities section)

Attendance:**52** TSITE members and **24** ALSITE members

Student Activities

The four Student Chapters (University of Memphis, Vanderbilt University, Tennessee Tech University, and the University of Tennessee-Knoxville) continued to be a source of pride for TSITE in 2008. Thanks to dedicated faculty advisors, TSITE's Career Development Committee, individual chapter liaisons, and most importantly the enthusiasm of the students themselves, great accomplishments have been made on our campuses. To increase student participation next year, the TSITE increased the scholarship amount from \$1,500 to \$2,000 and increased the number of scholarships from two (2) to three (3). The Student Paper Awards were also increased from \$250 and \$100 to \$500 and \$250 for first and second place, respectively.

The following highlights some of their notable activities:

Completion of traffic studies for local businesses – University of Tennessee

William H. Temple Scholarship Challenge

Three (3) University of Tennessee students represented TSITE at the annual Southern District event: Airton Kohls, Francisco Moraes and Jonathan Watson.

TSITE Provides Free Registration/Meal at all Section Meetings – Students from Memphis, Vanderbilt and University of Tennessee took advantage of this at this year's section meetings.

Attendance at District Meeting - University of Tennessee and Vanderbilt University

Presentation at TRB Annual Conference – Jan-Mou Li, *Signal Cycle Lengths-Long or Short?*, Manoel Neto – *AADT Travel Demand Predictions*, Jianwen Si, *Effectiveness of Alternative Detector Configurations*

Regular Monthly Student Chapter Meetings – Memphis University, University of Tennessee and Vanderbilt University

UT Student Field Trips – TDOT Traffic Management Center at Strawberry Plains, SDITE Annual Meeting in Charleston S.C., Traffic Signal System Committee– 2008 TRB Summer Meeting in Detroit MI., TSITE Summer 2008 Meeting at Montgomery Bell State Park,

Booth at Campus High School Engineering Day – University of Tennessee in October 2008.

TSITE Speakers List – TSITE maintains a volunteer speaker list for all its student chapters. The list currently includes over 20 individuals that have agreed to travel to student chapter meetings to serve as speakers. TSITE members spoke at Tennessee Tech, University of Memphis and University of Tennessee at Knoxville and at Chattanooga this past year.

Student Chapter Liaisons – In addition to faculty advisors, TSITE has assigned an individual to each student chapter to help promote communication and interaction.

Student Paper Competition – Students from University of Memphis, University of Tennessee and Vanderbilt University submitted technical papers for this competition. The winners are shown in the next section.

Outstanding Student Chapter Competition – Chapters at University of Memphis, University of Tennessee and Vanderbilt University submitted chapter reports for consideration. The winning chapter is shown in the next section.

2008 Dwight David Eisenhower Scholarship from the Federal Highway Administration was presented to Francisco Moraes Oliveira-Neto of University of Tennessee

2009 Executive Leadership Fellowship from the International Road Federation (IRF) was presented to Manoel Castro-Neto of the University of Tennessee.

The University of Memphis student chapter was recently awarded a \$1,000 grant from International ITE for a project to collect relevant trip and parking generation data. The U of M chapter was one of only five student chapters selected for this award. Several TSITE members - Stephanie Ivey, Martin Lipinski, Greg Dotson and Stephen Mosher - helped the students complete the proposal and grant application, and will provide ongoing assistance

throughout the project. The data collection effort has been incorporated into the students' course work and will be completed this spring.

Section Awards

Volunteer Distinguished Service Award (Plaque): Presented to an individual who, over a period of years, has contributed outstandingly to the advancement of the transportation profession both at the Tennessee Section and at District 5 levels.

2008 Recipient: **Cindy Pionke, P.E.** – Knox County Engineering

Tennessee Outstanding Individual Award (Plaque): Presented to an individual who, over the previous year, has contributed significantly to the advancement of the transportation profession and at both the Tennessee Section and Southern District (District 5) levels.

2008 Recipient: **Gregory Judy, P.E., PTOE** – Neel-Schaffer, Inc.

Jack B. Humphreys Young Member Award (Plaque): Presented to an individual who, is 35 years of age or less and, over a period of 1 year, has contributed outstandingly to the advancement of the transportation profession in the Tennessee Section and District 5.

2008 Recipient: **Kevin Cole, P.E.** – Wilbur Smith & Associates

Student Awards

William L. Moore, Jr. Student Scholarship (\$1,500 Scholarship and Plaque): Awarded to engineering or planning student enrolled at a university within the state of Tennessee and who has demonstrated a strong commitment to the transportation profession.

2008 Recipient: **Airton G. Kohls** (University of Tennessee)

T. Darcy Sullivan Student Scholarship (\$1,500 Scholarship and Plaque): Awarded to engineering or planning student enrolled at a university within the state of Tennessee and who has demonstrated a strong commitment to the transportation profession.

2008 Recipient: **Airton Khols** (University of Tennessee)

TSITE Student Paper First Place Award (\$250 and Certificate): Recognition of the best student paper submitted in the Tennessee Section competition.

2008 Recipient: **Drew Long** (University of Memphis)
"Safe Routes to Frayser Elementary School"

TSITE Student Paper Second Place Award (\$100 and Certificate): Recognition of the second best student paper submitted in the Tennessee Section competition.

2008 Recipient: **Said F. El Said** (University of Tennessee)
"History of Aviation in Tennessee"

Robert Stammer Student Chapter Award (Plaque and Participation in District Traffic Bowl Challenge): Presented to a Student Chapter who, for the school year, has contributed outstandingly to the advancement of the transportation profession in the Tennessee Section.

2008 Recipient: **University of Tennessee**

END OF SECTION ANNUAL REPORT FORM

Summary of Additional Section Activities (3-page limit)

Dr. Arun Chatterjee, P.E. continued his **chairperson** position of International ITE's **Freight Mobility** Council.

Our **TSITE website**, www.tsite.org, continues to be an excellent portal for information concerning the Section with information continuing to be updated and added.

2008 was the second year of the **ITS America Chapter** in Tennessee: **ITS-TN**. Many of ITS-TN's founding officers and members are also TSITE members: President- David Stansell (Stansell Electric), Vice President-Carl Baughman (City of Franklin), Secretary-Marshall Elizer, Jr. (GS&P), Treasurer-Gupta Borra (Televant). The organization's second annual meeting was held in Memphis on Nov. 1, 2008. The officers for 2009 are: President Gupta Borra of Telvent Farradyne, Vice President Marshall Elizer of Gresham Smith, Treasurer Rich Phillips of R. G. Phillips Consulting and Secretary Ali Farhangi of TDOT.

As a part of National Engineering Week, **Dyan Damron, PE** (Neel-Schaffer, Inc.) was chosen as the **Middle TN Chapter of Tennessee Society of Professional Engineers** and also was chosen as the **2008 Young Engineer of the Year for the State of Tennessee TSPE**. This award is given annually to a deserving candidate that exhibits exemplary technical, professional and civic qualifications from across all engineering disciplines within Middle Tennessee and State of Tennessee, respectively.



The Section, led by Chris Cowan, produced **four (4) quarterly newsletters** that reviewed and summarized Section and industry news and happenings.

Mr. Steve Allen Director of TDOT's Project Planning Division, was selected by his fellow employees at TDOT to receive the "Distinguished Career Service Award." This recognition is reserved for those who have dedicated their careers to the Department and have provided the highest level of service to TDOT by their outstanding leadership and accomplishments.

Began the process of contacting TDOT qualified transportation firms and inquire if all of their transportation engineers are members of TSITE.

TSITE was happy to **renew and add** to the number of organizations that provide **sponsorship funding** to the Section. Eleven (11) separate groups gave an annual donation. The funds are used in support of the Section's effort to allow students to attend Section meetings at no cost and the lodging costs for award winners at our summer meeting.

John Van Winkle, P.E. continued his efforts in educating students at local grammar schools.

Other Notable Individual Member Activities

The Tennessee Section is proud of the accomplishments of its individual members in their technical and leadership pursuits. This year our members upheld a longstanding tradition of being active in the profession, with other organizations, and in their communities.

Every year TSITE asks its members to complete an activity survey to make us aware of their activities over the previous year. Highlights from the 2008 survey are as follows:

Leadership positions held in various professional organizations:

- President, Southern District ITE, Craig Hanchey, P.E., PTOE
- Chair - SDITE Strategic Planning – Information, Communications and Outreach, John Van Winkle, P.E.
- Chairman – City of Franklin Transit Board, Preston Elliott, AICP
- Secretary - American Society of Highway Engineers (TN), Jon Storey, P.E.
- President - ITS-TN, David Stansell
- Vice President - ITS-TN, Carl Baughman, P.E.
- Chair – SDITE Education/Student Chapter Committee, Dyan Damron, P.E.
- Chair – SDITE Historical Records Committee Chair, Bob Stammer, Jr., P.E.
- Chairman - SDITE Professional Development Committee, Anthony Todd
- Chair - SDITE Publications Committee, Jeff Hammond, P.E.
- Chair - ITE's Freight Mobility Council, Arun Chatterjee, P.E.
- Contributing Member – AASHTO Technical Committee on Geometric Design, Jeff Jones, P.E.
- Chair – Transportation Committee, Nashville Chamber of Commerce, Bill Moore, P.E.
- Adjunct Professor – Civil Engineering Department, University of Tennessee, Geometric Design, Alan Childers, P.E.
- Chair-Chattanooga/Hamilton County Air Pollution Control Board

Membership in and Attendance at the following technical activities:

- Chattanooga School for the Arts & Sciences Annual Career Fair
- Led tours and field trips for local elementary students in Chattanooga
- Member of Advisory Council of Traffic Safety (Chattanooga)
- APWA Chapter meetings
- ITS Tennessee
- Memphis MPO Transportation Advisory Committee
- NSPE/TSPE meetings
- American Society of Highway Engineers (ASHE) sessions/meetings
- TRB Annual Conference
- Tennessee Transportation Assistance Program (TTAP) workshops
- American Public Transit Association
- AASHTO/SASHTO
- Various ITE webinars
- American Planning Association – Tennessee Chapter
- ASCE Web Seminars
- Tennessee ASCE Meetings

- “Engineers Day on the [Capitol] Hill” in Nashville
- Society of Women Engineers
- American Society of Highway Engineers
- SDITE Board Meetings
- SDITE Annual Meeting
- APWA technical meetings
- UT Chattanooga Advisory Board for the Civil Engineering Program

TENNESSEE SECTION 2008 ANNUAL REPORT

APPENDIX

Attachments Include:

Technical Committee Report (7 pages)

Membership Survey Results (7 Pages)

Student Chapter Annual Reports

- University of Tennessee (10 pages)
- University of Memphis (12 pages)
- Tennessee Technical University (5 pages)

Example Newsletter (8 pages)