

INSTITUTE OF TRANSPORTATION ENGINEERS

Section Annual Report

for ITE's Tennessee Section (TSITE)



January 1, 2005 – December 31, 2005

2005 Board of Directors

President: Jeff Hammond
Vice President: Steve Allen
Secretary/Treasurer: Greg Judy
Affiliate Director: Renny Stinson
Past President: Anthony Todd
Section Representative ('04-'05):
Hollis Loveday
Section Representative ('05-'06):
John Van Winkle

2005 Committee Chairs

Audit: Greg Judy
Awards: Anthony Todd
Career Development: Dawn Foster
Legislative: Devin Doyle
Membership: Greg Judy
Nominations: Anthony Todd
Scholarship: Anthony Todd
Scholarship Challenge: Greg Judy
Section Relations: Jeff Hammond
Technical: John Sexton

Membership

TSITE actively promotes full membership in ITE (approximately 93% of total membership are International members). To better personally introduce the organization, this year's Membership Committee produced an information packet targeted toward the attraction of potential affiliate members of the Section.

Number	Membership Grade	Annual Dues
2	Honorary	\$0
32	Fellow	\$15
117	Member	\$15
81	Associate	\$15
7	Institute Affiliate	\$15
41	Student Member	\$15

Section Affiliates (By type):

2	Consultant	\$15
8	Government	\$15
2	Education	\$15
9	Vendors	\$15

Membership Facts:

300 total members.

123 (41%) are consultants.

104 (35%) are government employees.

41 (14%) are students.

16 (5%) are educators.

13 (4%) are vendors.

3 (1%) are retired.

6 (2%) live outside of Tennessee.

21 (7%) 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, 2005: **\$9,785.60**

Income for Year 2005:

Membership Dues:	\$3,350
Meeting income:	\$15,456
Investment income:	\$100 (est)
Advertising income:	\$350
District reimbursement:	\$2,664.65
Scholarship income:	\$4,080
Correction from 2004:	\$1,600

Total Income: \$27,580

Expenditures for Year 2005:

Printing/postage:	\$599.88
Meetings:	\$4,163
Special projects:	\$491
Awards:	\$984
Scholarship fund:	\$5,110
Student member support:	\$185

Total expenditures: \$11,533

Net Income: \$16,047

Balance of funds on hand December 31, 2005: **\$25,832**

There was no change in the Section Bylaws in 2005.

Technical Activities

The root of our organization's technical activity is found in four quarterly meetings held throughout the state. It is here that experiences are shared, initiatives are introduced, results are presented, and questions are answered. The Section takes pride in providing timely, varied programs that feature local speakers as well as students and other invited guests. Also, we believe that interaction with other Sections and related organizations broadens the awareness of our members and leads to stronger professional relationships. Please see the Meetings section of this report for a summary of these technical activities.

Legislative Activities

The TSITE Legislative Committee was formed this year to investigate the potential interaction of our organization with the legislative process and to monitor the transportation-related proceedings of our legislative bodies. Two bills were actively monitored:

- Bill to allow planning, design, construction, and maintenance of a major toll bridge in the Nashville area remains deferred in subcommittee.
- Bill to exempt persons over 21 from a mandatory motorcycle helmet was deferred until January 2006.

Additionally, a “Congressional Corner” feature was added to the TSITE newsletter listing other bills of potential interest to our members. Four other state bills in addition to TEA-LU highlights were highlighted.



Meetings

TSITE 's four regular monthly meetings are a staple of our membership's technical activity. In addition, three local areas hold monthly social meetings for a total of over 35 TSITE meetings in 2005. In all, opportunities for 65 professional development hours were made available during the year.

Date: March 3, 2005

Location: Vanderbilt University, Nashville

Purpose: TSITE's annual Winter Meeting, held in conjunction with a student chapter

Technical Component:

Mr. Mark Cook, P.E., City of Clarksville Traffic Engineer	<i>Neighborhood Traffic Calming in Clarksville</i>
Dr. James Dobbins, Ph.D., Vanderbilt University	<i>TDOT's Traffic & Safety Information System</i>
Mr. John Houghton, Tennessee Department of Transportation	<i>TDOT Long Range Plan</i>
Ms. Rachel Smith, Belmont University	<i>Legislative Issues</i>

Attendance: 89 TSITE members and students

Date: May 26, 2005

Location: Bowling Green, Kentucky

Purpose: TSITE's annual Spring Meeting, held in conjunction with KYSITE's Meeting and scholarship golf outing

Technical Component:

Ms. Melissa Cansler, City of Bowling Green	<i>Lexington Congestion Management Plan</i>
Mr. Paul Stone, Lexington-Fayette Urban County Government	<i>Bowling Green Major Thoroughfare Plan</i>
Mr. Fred Schwartz, Nashville Area MPO	<i>Nashville MPO Congestion Management</i>

Attendance: 34 TSITE members, 59 total

Date: July 8-9, 2005

Location: Fall Creek Falls State Park, Pikeville

Purpose: TSITE's annual Summer Meeting and Auction for scholarship fundraising

Technical Component:

Kim Couch, Tennessee Tech University	<i>Activity-Based Forecasting (Student Paper Winner)</i>
Preston Elliott, Parsons Brinkerhoff	<i>Quantifying Roadway Conditions Using the Bicycle Compatibility Index Model in Clarksville</i>
Bob Weithofer & Jonathan Cleghon, Metro Nashville Public Works	<i>Nashville's CMAQ Signal Timing Early Results</i>

Attendance: 82 TSITE members, students, and guests

Date: Sept. 21-23, 2005

Location: Knoxville, Tennessee

Purpose: TSITE's annual Fall Meeting and first Tennessee Conference of Planning, Landscape Architecture, and Transportation Engineering (held in conjunction with state chapters of APA and ASLA)



Technical Component:

Allison Lockwood and Roger Henderson	<i>A Timeless Way of Street Building</i>
Alan Childers	<i>Integrating Traffic Calming into the Design of Urban Streets</i>
Teresa Estes, Lane Swauger	<i>Corridor Planning, Which Comes First?</i>
Jeff Hammond	<i>Urban Freeway Removal: A Review of Selected Cases</i>
Brad Thompson, Preston Elliott and Jerry Everett	<i>Freight and Goods Movement: A Study for the Nashville Region</i>
Rodney Chester, John Benditz and Don Dahlinger	<i>TDOT'S Intelligent Transportation System (ITS)</i>
Rebecca Brooks, Bob Murphy and Adetokunbo "Toks" Omishakin	<i>Implementing a Successful Bicycle and Pedestrian Program</i>
John Mettile	<i>Transforming the Kentucky Transportation Cabinet</i>
Jim Alderman and Marshall Elizer	<i>Public Wayfinding: "Don't Make Me Turn This Car Around!"</i>
Dr. Jack Humphreys	<i>Outdoor Lighting</i>

Note: Speakers shown here only represent the ITE portion of the program. The conference provided three concurrent tracks, including over 20 individual presentations, workshops, and technical tours.

Attendance: 94 TSITE members and guests, 357 total

Date: October 16-18, 2005 Location: Chattanooga, Tennessee

Purpose: Joint meeting with APWA and SWANA

Technical Component:

Gene Hyde, Chattanooga City Forester	<i>Public Works and Urban Forestry in Chattanooga</i>
Rick Wood, Trust for Public Land	<i>Chattanooga's Greenway Plan</i>
Richard Riggins, Neel-Schaffer, Inc.	<i>Chickamauga Dam Roundabout</i>
Mike Howard, Hamilton County Engineer	<i>Tennessee Riverwalk</i>
Steve Meyer, Volkert & Associates, Inc.	<i>Chattanooga ITS Program</i>
Don Moore, Engineering Forensics Group, Inc.	<i>Automotive Black Box Technology</i>
Dr. Aaron Rosenberg, Redflex Traffic Systems, Inc.	<i>Photo Enforcement</i>

Attendance: 15 TSITE members

Student Activities

The four Student Chapters (University of Memphis, Vanderbilt University, Tennessee Tech University, and the University of Tennessee) continued to be a source of pride for TSITE in 2005. 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. Some outstanding activities include:

- Completion of traffic studies for local businesses (UT)
- Student presentations at TRB workshop (UT)
- First William H. Temple Scholarship Challenge champions (UT)
- Organized tour of TDOT's TMC (VU and TTU)
- Organized tour of active construction sites (TTU)
- Attendance at Chapter and Section Meetings (UT, VU, TTU)
- Attendance at District Meeting (UT, VU)
- Faculty attendance at International Meeting (UM, VU)

Submitted Chapter Reports are included as appendix items.



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.

2005 Recipient: **Marble Hensley, P.E.** – Arcadis

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.

2005 Recipient: **Cindy Pionke, P.E.** – Knox County Dept. of Engineering

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.

2005 Recipient: **Dyan Schnarrs, EIT** – RPM & Associates

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

2005 Recipient: **University of Tennessee**

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.

2005 Recipient: **Elizabeth Pfohl** (University of Tennessee)

TSITE 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.

2005 Recipient: **Sal Sarcona** (University of Tennessee)

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

2005 Recipient: **Scott Beard** (University of Tennessee)

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

2005 Recipient: **Kim Couch** (Tennessee Tech University)

END OF SECTION ANNUAL REPORT FORM

Other Notables

Tennesseans continued their tradition of enthusiastic attendance at District and local meetings. Approximately 65 members, students, and spouses converged in Savannah and our Winter and Fall Meetings each approach 100 members.

Four Tennesseans journeyed “down under” to the 2005 Internal Meeting in Melbourne including Jeff Hammond, an ITE Young Member travel scholarship award winner.

Our website, www.tsite.org, continues to be an excellent portal for information concerning the Section. For the first time, the site became an official election tool as the on-line balloting process was a success.



Since the original TSITE Operations Manual was developed in 2001, several areas needed updating. A complete overhaul of the document was undertaken and finished for use by the 2006 incoming officers.

TSITE continues to be a strong proponent of collaborative technical meetings. This year, meetings with the Kentucky Section ITE and the Tennessee chapters of the American Planning Organization and American Society of Landscape Architects gave us new contacts and a broader outlook on our profession.

A Legislative Committee was formed to monitor Transportation Committee agendas on capitol hill. Two bills continue to be closely monitored by this committee.

Over \$4,000 was raised at the annual scholarship auction. A total of \$5,110 was deposited into the TSITE scholarship fund this year.

The Tennessee Department of Transportation completed the Statewide Long-Range Transportation Plan with the help of TSITE, one of 50± members of a statewide steering committee.

District involvement included several recognitions at the April meeting in Savannah. Jeff Hammond was awarded the Joseph Thomas Young Member Award, Craig Hanchey was elected SDITE Secretary-Treasurer, and the team from the University of Tennessee clinched the first prize in the William Temple Scholarship Challenge.

Dr. Arun Chatterjee became chair of International ITE's Goods Movement Council.

Members welcomed back Bill Kervin from almost two years of active duty with the National Guard 278th in Iraq. A signed proclamation recognizing Mr. Kervin's service was presented to his wife Kathy at the Fall Meeting awards ceremony.



New correspondence was created by the Membership Committee to introduce the Section to potential affiliate members. An information packet including the all-new Section brochure reached over 200 transportation professionals across the state.



The Tennessee Section honored the life and career of Mr. Marble Hensley. Mr. Hensley was a founding member of ITE's Southern Section in 1953, served as ITE President in 1969, and was awarded TSITE's Volunteer Distinguished Service Award in September before his passing on November 7th.

In addition to technical meetings, monthly local area meetings in Nashville, Chattanooga, and Knoxville allow for informal fellowship. Local area meetings accounted for over 30 TSITE meetings in 2005.

Successful meeting planning allowed TSITE to maintain among the lowest dues in the District (\$15) while keeping the average 1-day meeting registration cost at \$20. Student registration at all meetings remains free and some travel/accommodations costs are covered.

Steve Meyer co-authored a paper entitled *Encouraging Professionals to Teach University Classes* and presented it to the American Society of Engineering Educators.



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. Some of the activities of TSITE members in various areas follow.

Attendance or presentations in the following technical activities:

- American Society of Engineering Educators
- Chattanooga Traffic Safety Advisory Council
- APWA Chapter meetings
- National Committee on Uniform Traffic Control Devices
- NSPE/TSPE meetings
- Various middle and high school and community college engineering presentations
- Florida DOT TEA-LU Workshop
- Portland Cement Concrete Pavement Conference
- Tennessee Public Transit Association Annual Meeting
- AASHTO/SASHTO
- Georgia Section ITE
- North Carolina Section ITE
- Kentucky Section ITE
- American Planning Association meetings
- ASCE Web Seminars
- Tennessee TransCAD Model Users' Group
- "Engineers Day on the [Capital] Hill" in Nashville
- FHWA Intersection Safety Program

- Nashville Chamber of Commerce, Transportation Committee
- Society of Women Engineers
- American Society of Highway Engineers
- Monthly TSPE Middle Tennessee Chapter Meetings
- SDITE Board Meetings
- TAPA Winter Retreat
- Tennessee ASCE Annual Meeting
- Tennessee Chapter APWA Board Meetings
- TDOT Statewide Steering Committee for LRTP, Nashville
- APWA Road to Leadership officers' meeting
- TSITE Monthly Regional meetings in Nashville, Knoxville, and Chattanooga
- Transportation Research Board
- Modern Roundabout Design workshop
- Various neighborhood group meetings

Awards and honors given to members this year include:

- ACEC of Tennessee President's Citation, Steve Meyer
- Adjunct Faculty Service Award, UT Chattanooga, Steve Meyer
- Nashville Chamber of Commerce Outstanding Volunteer of the Year, Bill Moore
- SDITE Joseph Thomas Young Member Award, Jeff Hammond
- ITE Transportation Consultants Council travel scholarship, Jeff Hammond
- Middle Tennessee TSPE Government Engineer of the Year, Don Dahlinger

Leadership positions held in various professional organizations:

- President, Southern District ITE, Bob Murphy
- President, Chattanooga Chapter ACEC, Steve Meyer
- Tennessee Highway Official Certification Board, Jack Marcellis
- President-Elect Tennessee Chapter APWA, Jack Marcellis
- Tennessee Infrastructure Alliance, Bill Moore
- Southern District Awards Committee Chair, John Van Winkle
- Southern District Editor, Sharon Schutz
- Judge of Nashville's "Excellence in Development" Competition, John Van Winkle
- Member of Executive Committee of ITE's Good's Movement, Arun Chatterjee

TENNESSEE SECTION 2005 ANNUAL REPORT

APPENDIX

Including:

Congressional Corner – TSITE Legislative Committee’s newsletter update (1 page)

TSITE Fall Meeting brochure and schedule (7 pages)

UT, VU, and TTU Student Chapter Reports (18 pages)

Screen capture of TSITE on-line voting page (1 page)

Military service proclamation (1 page)

Brochure created as part of affiliate member campaign (2 pages)

Encouraging Professionals to Teach University Classes, Steve Meyer (8 pages)



Congressional corner



In February, TSITE undertook a concerted effort to bring members more information on the activities of our state legislature. Led by member Devin Doyle, the Legislative Committee will review the weekly calendars of Senate and House Transportation Committees, looking for items of interest to our organization.

As it arises, notable legislation will be posted here in the Congressional Corner feature. We'll also bring the latest from Washington and if your local government is passing unique ordinances, let us know and we'll publish that, too.

National

In March, the US Senate passed TEA-LU (officially: HR 3, the Transportation Equity Act: A Legacy for Users). For FY04-09, it funds highways at \$235 billion and transit at \$49 billion.

TEA-LU Highlights

- * Increases TEA-21 guaranteed funding by 42 percent
- * Includes tax law changes passed last year that restore the 5.2 cents per gallon subsidy to the Highway Trust Fund (HTF) and revoke the diversion of 2.5 cents per gallon from HTF to the General Fund
- * Includes \$6 billion for projects of national and regional significance
- * Implements a Congestion Relief Program—new state requirements for projects that increase motor vehicle travel reliability and maximize roadway capacity and efficiency and remove bottlenecks; establishes time periods for completion of congestion relief program
- * \$590 for High Risk Rural Road Program
- * \$875 million over five years for Safe Routes to School Program
- * \$52.35 billion guaranteed funding for transit over six years—51 percent increase in guaranteed funding over TEA-21
- * \$2 billion for rural public transportation
- * Provides funds for new disabled transportation programs in areas where it is not available—administration's New Freedom Initiative
- * Does not include a plan to address the donor/donee issue, expected to be addressed in conference negotiations

- * Includes a “reopener” provision that stops flow of funding after two years to allow Congress to find additional funding; it is unclear from what year the reopener will take effect
- * Does not include member projects

Tennessee

*SB 1325 by *Burchett, Henry, Miller, Southerland (HB 1215 by *Davidson)
Safety - Exempts persons 21 years of age or older from wearing a mandatory crash helmet while riding motorcycle, motorized bicycle, or motor-driven cycle. - Amends TCA Section 55-9-302.

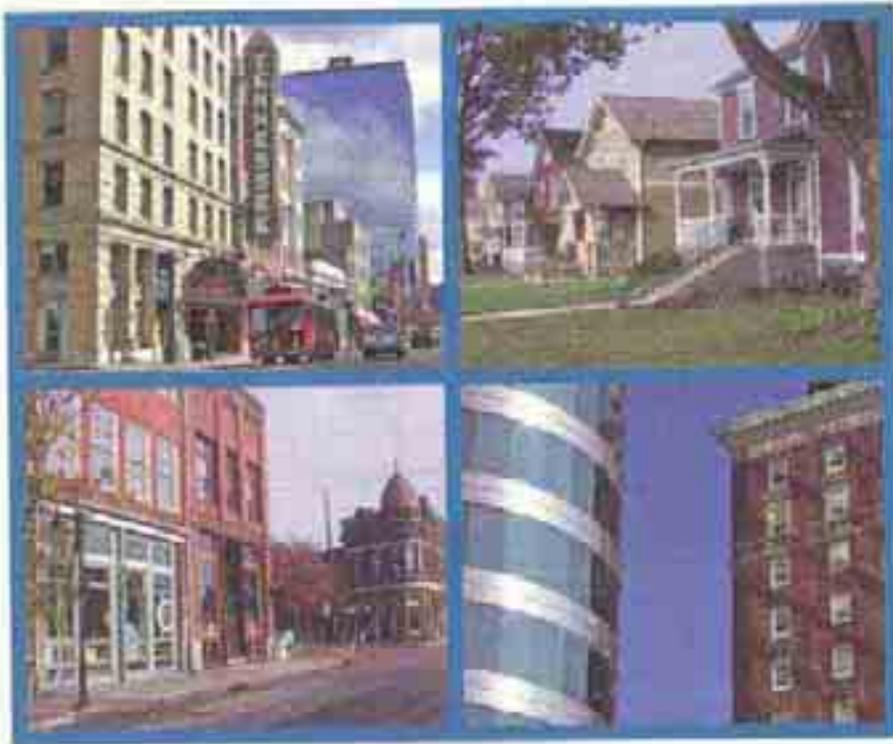
*SB 0140 by *Cooper (HB 0594 by *Curtiss)
Railroads - Requires all Class III railroads to maintain crossings on all roads not maintained by state. - Amends TCA Section 65-11-103.

SB 0297 by *Williams (*HB 0118 by *Harmon, Pinion)
Tennessee Regulatory Authority - Transfers railroad jurisdiction from the department of transportation and places such jurisdiction with the Tennessee regulatory authority. - Amends TCA Title 65 and Title 67.

SB 0775 by *Burchett (*HB 0874 by *Campfield)
Motor Vehicles - Prohibits the use of engine compression brakes on tractor trailers unless such brakes are equipped with a muffler or it is an emergency. - Amends TCA Title 55, Chapter 8, Part 1.

SB0627 by *Black. (*HB0311 by *Lynn, *Maggart, *Turner M.)
Highways, Roads and Bridges - Directs department of transportation to construct, or to contract for the construction, of a toll bridge in Sumner County. - Amends TCA Title 54, Chapter 15.

*SB 0524 by *Crutchfield (HB 1387 by *Newton)
Railroads - Requires Memphis to maintain railroad right-of-way properties at its expense within the municipal boundaries. - Amends TCA Title 65, Chapter 11, Part 1.

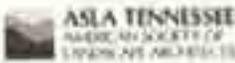


Looking Back . . . Moving Forward

Join us in Knoxville for the first-ever joint conference of TAPA, ASLA and TSITE! The theme is "Looking Back, Moving Forward" and addresses how the past has been borrowed from and adapted for today's trends in planning, landscape architecture and transportation. This is an exciting opportunity for discussion among our three fields.

The conference promises to be informative and lively, with topics such as corridor planning, downtown redevelopment, innovative planning products, and planned communities. Mobile workshop choices include a canoe trip down the French Broad River, a tour of Norris, the renowned TVA planned community, and a downtown walking tour of Knoxville redevelopment projects. There are also two pre-conference workshops available at no extra charge.

<http://www.knoxmpc.org/tncon05/>



CONFERENCE REGISTRATION 2005

Please print or type. Use one form per registrant.

Name _____ Title _____

Organization _____

Address _____ City _____ State _____ Zip _____

Phone _____ Fax _____ E-mail _____

EARLY BIRD DISCOUNT REGISTRATION	Fee Totals
<i>(Must be Received by August 5, 2005)</i>	
<input type="checkbox"/> Member of TAPA, TSITE, ASLA or Planning Commissioner - \$150	
<input type="checkbox"/> Non-member - \$175	
<input type="checkbox"/> Student or Retiree - \$75*	
REGULAR REGISTRATION	
<i>(Must be Received by September 7, 2005)</i>	
<input type="checkbox"/> Member of TAPA, TSITE, ASLA or Planning Commissioner - \$175	
<input type="checkbox"/> Non-member - \$200	
<input type="checkbox"/> Student or Retiree - \$100*	
*Fee waived if student/retiree works 6 volunteer hours for the conference. You must register by August 21, 2005 to qualify for this option.	
LATE REGISTRATION	
<input type="checkbox"/> Member of TAPA, TSITE or ASLA - \$225	
<input type="checkbox"/> Planning commissioner - \$225	
<input type="checkbox"/> Non-member - \$250	
<input type="checkbox"/> Student or Retiree - \$125	
THURSDAY ONLY	
<i>Includes admission to all sessions; continental breakfast, breaks, luncheon, and the awards banquet</i>	
<input type="checkbox"/> Early Bird - \$80	
<input type="checkbox"/> Regular - \$110	
<input type="checkbox"/> Late - \$100	
FRIDAY ONLY	
<i>Includes admission to all sessions; continental breakfast, breaks & luncheon</i>	
<input type="checkbox"/> Early Bird - \$75	
<input type="checkbox"/> Regular - \$95	
<input type="checkbox"/> Late - \$115	
ADDITIONAL/COMPANION MEAL TICKETS	
<input type="checkbox"/> Wednesday Reception - \$25	
<input type="checkbox"/> Thursday Luncheon - \$25	
<input type="checkbox"/> Thursday Awards Banquet - \$40	
<input type="checkbox"/> Friday Luncheon - \$25	
MOBILE WORKSHOPS	
<i>Each of these has limited capacity; check the box to reserve your spot.</i>	
<input type="checkbox"/> City of Norris Planned Community Tour - \$15	
<input type="checkbox"/> French Broad River Canoe Trip - \$20	
<input type="checkbox"/> 4th & Gill/Mechanicsville Neighborhoods Tour - \$15	
<input type="checkbox"/> TDOT Traffic Management Center Tour - \$10	
<input type="checkbox"/> Walking Audit with Mark Fenton - Free	
<input type="checkbox"/> Downtown Knoxville Redevelopment Walking Tour - Free	
TOTAL AMOUNT DUE <i>(Please make checks payable to KAPA)</i>	<input style="width: 100px; height: 30px;" type="text"/>

PRE-CONFERENCE WORKSHOPS
<i>Free, but you must pre-register; Check the box to reserve your spot</i>
<input type="checkbox"/>
Site Planning Roundtable Management Training
<input type="checkbox"/>
Leadership Training
•
EARLY BIRD REGISTRATION DEADLINE: AUGUST 5
•
REGULAR REGISTRATION DEADLINE: SEPTEMBER 7
Registrations must be received by this date. Pre-registration will not be processed after this date. Walk-up registration will be available at the conference and will be charged the Later Registration fee.
REGISTRATION FEES
Full conference registration includes admission to all sessions; continental breakfasts, luncheons, daily breaks; admission to the receptions and the awards banquet for the registrant.
CANCELLATION POLICY
All refunds will require a 10% processing fee. A 90% refund will be given for cancellations received via e-mail or phone by August 31, 2005. A 50% refund will be given for cancellations received by September 9, 2005. Any refund requests received after September 15 will be considered on a case-by-case basis with appropriate documentation. "No shows" will not receive a refund. You may, however, designate a replacement attendee. All refunds will be processed within 90 days of the close of the conference.
Return registration form with payment to: 2005 Tennessee Conference Katie Guenther 501 Woodland Hills Drive La Vergne, Tennessee 37086 Phone: 615-793-7894 katieguenther@comcast.net

CONFERENCE SESSIONS

The following are brief descriptions of the sessions. For more information, please refer to the conference website at <http://www.knoxmpc.org/tncon05/>

Thursday, September 22

9 a.m. - 10:15 a.m.

CONTEXT SENSITIVE SOLUTIONS

A Timeless Way of Streetbuilding
Allison Lockwood and Roger Henderson
**Integrating Traffic Calming into
the Design of Urban Streets**
Alan Childers

This presentation will focus on the new national guidelines in *A Guide to Context-Sensitive Design for Major Urban Streets*. The national guidelines address fundamental concepts of urban building and site design and the relationship between buildings, urban design, and the urban thoroughfare. Many agencies have adopted geometric design standards that promote traffic calming, including such features as reduced street widths, shorter tangent sections and increased horizontal and vertical curvature. This presentation will serve to summarize many of these standards and how they are being applied by local agencies.

TENNESSEE GROWTH READINESS PROGRAM

Joel Haden, John Lamb,
Leslie Collie, other speaker TBA

This program helps communities learn how land use decisions affect water quality, and then make informed choices about managing growth. The program helps them comply with new regulatory requirements. Planners and public works officials are the program's target audience. Program participants learn to evaluate their existing development rules against a pallet of twenty-two model principles. They learn to build consensus for new rules that protect water resources and are right for their community.

PUBLIC INVOLVEMENT

Going Successfully from a Vision to a Recommendation
Jeannie Dulaney
Nine Counties, One Vision Public Involvement
Lynne Fugate
Community Participation in the Design Process
Bill Eubanks

This session will discuss public involvement processes, including the James White Parkway task force and Nine Counties, One Vision. Presenters will outline the innovative processes used and share lessons learned. Some tools that will be discussed include personal style assessments, group dynamics models, team building and collaborative approaches to problem solving. The session will also provide information on how to achieve a common vision and take it to strategic planning and action levels. Brainstorming Sessions and Design Charrettes can be an effective way to educate the public and gain consensus in the design process, leading to design solutions which respond more completely to local issues. What is the difference between the

two and when should each be used? Learn from the successes and mistakes of one landscape architect so that you can more effectively facilitate these meetings.

10:30 a.m. - 11:45 a.m.

URBAN REDEVELOPMENT

Applying the Transect:
From the Plan through the Codes
Cindy Wood
From Vision to Brick and Mortar
Ed Owens

Presenter Cynthia Wood will outline how Nashville developed new land use policies that better respond to the distinct needs of the varied environments within Metro Nashville, overhauled its countywide document of land use policies to fit the Transect, and is developing subdivision and zoning code changes to implement these policies. Understanding the unique challenges associated with urban redevelopment requires recognition that a broad array of inter-related elements ultimately must come together to make a project work for the developer. Zoning, design guidelines, non-conventional financing packages, inflexible life-safety codes and the prospect of expensive environmental remediation are just a few of the challenges facing an urban developer.

SAFE ROUTES TO SCHOOL

Mark Fenton

This is a national initiative launched in 1998 by the Partnership for a Walkable America, a coalition of health, safety, and transportation organizations promoting healthy, safe, accessible walking for all Americans. Adults and children are encouraged to walk to school together on this day, and in the process to look for ways that they can make their communities permanently more walkable. Fenton presents the keys to putting on a successful event and insights on the progression many communities pass through from launching a one-day event to creating long-term, permanent improvements. He also shares success stories and inspiration so that others can embrace this idea and take it home.

STRATEGY FOR BIG BOXES

Changing a Reactive Position into a Proactive Strategy
Mayor Steve Brown and Craig Lewis

The mayor of one of the premier master planned communities in the United States reviews big box retail, its negative impacts and ways to control this type of development. The presentation will include methods that you can employ for creating a more palatable version of big box development. Gray fields and new urban "lazer shopping" centers will be included in the discussion. It's a balanced analysis of the good, the bad, and the ugly of dealing with modern development practices and New Urbanist, form-based codes.

Rebecca Brooks, Bob Murphy
and Adetokunbo "Toks" Omishakin

Join us in discussing how Nashville, Tennessee, the "Music City", is moving to the beat of a successful bicycle and pedestrian program. In 2003, Metro Nashville adopted its first comprehensive bicycle and pedestrian plan. Music City Moves, the Community Health and Wellness Team, Walk/Bike Nashville, and various departments of Metro Nashville government have worked together to implement new facilities, develop programs, and create policies to encourage smart travel choices and more healthy lifestyles.

KNOXVILLE DOWNTOWN REDEVELOPMENT

David Dewhurst, Bill Lyons and Tom Reynolds

Three panelists with different responsibilities and perspectives regarding downtown development will speak to the revitalization downtown Knoxville has seen and continues to experience.

REGIONAL AND COMMUNITY PLANNING

Kingsport Tomorrow

Liesa Jenkins

Blount County Planning Efforts

John Lamb and Carlos Yunsan

Kingsport Tomorrow is a non-profit citizens organization working to improve the community through citizen participation in determining the future.

Blount County is in the midst of several planning efforts, including the Environmental Health Action Team, focused on public health aspects of land use, air quality and water quality; Hunter interests, Inc. growth strategy for Maryville and Blount County; and Little River Watershed Planning. This presentation will give an overview of these efforts, and focus on the EHAT process.

11 a.m. - Noon

CONTEXT SENSITIVE SOLUTIONS

Applying Traditional Community Planning Practices to
Roadway Planning and Design in Tennessee

Valerie Birch

Transforming the Kentucky Transportation Cabinet

John Mettite

This presentation will focus on the parallels between traditional community planning with its history of public involvement and emphasis on contextual solutions and the Context Sensitive Solutions approach to roadway projects. It will highlight the lessons that the Tennessee Department of Transportation and Kentucky Transportation Cabinet have learned as they embrace CSS, and the role that planners can play in helping DOT's develop projects that "fit their physical setting and preserve scenic, aesthetic, historic, and environmental resources, while maintaining safety and mobility."

INNOVATIVE PLANNING PRODUCTS

The Plan of Nashville

Gary Gaston and T.K. Davis

Chattanooga's Downtown Plan

Pam Glaser

The Plan of Nashville is a community-based vision of how the urban core should look and work in the twenty-first century. The culmination of this 2 1/2 year process is *The Plan of Nashville: Avenues to a Great City*, a 250 page coffee table book published by Vanderbilt Press that is already receiving national acclaim. In addition, the Nashville Civic Design Center produced a 25 minute video documentary that charts the origins, process and production of The Plan of Nashville.

Chattanooga's Downtown Plan is a 20-year vision for how the downtown will grow and develop. The innovative format of this particular plan should be of great interest to planners. Instead of a thick printed document, three products were produced: 1) a two-sided poster that summarizes the principles and goals of the plan, 2) a really cool 15-minute video which does the same, and 3) a compact disc which contains the full text and numerous graphics as well as the video.

PUBLIC WAYFINDING IN THE BUILT ENVIRONMENT

"Don't Make Me Turn This Car Around!"

Jim Alderman and Marshall Elizer

Environmental graphic designers and engineers are working toward the same goal: to make the motorist's experience as safe, efficient, and enjoyable as possible. This presentation will address the goals of a successful public wayfinding program and the benefits of developing a good working relationship among environmental graphic designers, transportation engineers, planners, and landscape architects. Case studies will be presented of programs designed for Chattanooga and Rutherford County, and an update provided on the pilot programs for tourist-oriented wayfinding signage sponsored by TDOT.

1:20 p.m. - 1:50 p.m.

OUTDOOR LIGHTING

Jack Humphreys

Electric lights have changed drastically since they were first produced in 1800. Improvements in efficiency have occurred in the past 50 years but no new lamp technologies have emerged. *Vision 2020: Lighting Technologies Roadmap*, a 1999 report, recommends 100 changes in lighting based on goals of efficiency, life span and quality. One such change, the introduction of full electronic ballasts, is expected this year. The presentation will discuss the ballast and offer a demonstration.

1:50 p.m. - 3:00 p.m.

INVASIVE SPECIES AND THE DEVELOPMENT PROCESS

Dr. Jack Ranney

Development stimulates the spread and threat of exotic invasive plants within developing areas and nearby natural areas. This imposes costs to society that are not well documented. The processes of invasion and spread are summarized for invasive plants in the context of development. Effects of management responses or lack of them have significant economic, social, and ecological implications that need to be considered in community development. Some local invasive plant situations will be discussed along with their near- and long-term implications.

1:45 p.m. - 2:45 p.m.

CORRIDOR PLANNING Which Comes First?

Teresa Estes, Lane Swauger
Sevier County Transit for the Future
Timothy P. Sorenson

Part one of this session will focus on the past, present and future of the SR 386 extension project. This is a large area transportation impact study that examines the effects of the City of Gallatin long range land use plan on roadways, access management, commuter rail, transit, pedestrian, and bicycle facilities. Recommendations for future projects were based on the results from the TRANSCAD travel model.

The second part addresses Sevier County, Tennessee. This area has experienced large growth in tourist population and traffic congestion. An alternatives assessment to determine if improved rapid transit would be possible between Interstate 40, Sevierville, Pigeon Forge and Gatlinburg has been initiated. The work focused whether an exclusive transitway could be established within the context of three very different communities. There were also some unique public involvement techniques that tried to bring the concepts of context sensitive solutions to this project.

COMMUNITY SCHOOLS

Making Stone Soup with Public Space

Jamey Dobbs, Dr. Susan L. Roakes and Gene Burr

Our Community Schools (OCS) mission is to strengthen communities by forming an alliance of the public schools and the community. OCS encourages the development of public schools as community centers that promote learning, citizenship, and a higher quality of life for people of all ages outside of traditional school hours. There is a growing interest among architect/planners in the design for new construction and redesign of school sites for multiple uses.

EFFECTIVE MEDIA RELATIONS

Mark Fenton

As a magazine editor and TV host, Mark is aware of the time and magnitude constraints under which most reporters work. As a result, he can offer insights into how best to build a relationship with media outlets in your area, and how to be certain stories are timely and technically accurate.

3 p.m. - 4 p.m.

URBAN FREEWAYS

Urban Freeway Removal: A Review of Selected Cases

Jeff Hammond
Chattanooga's 21st Century Waterfront Plan
- Taming a Freeway
Dan Kral

This presentation will examine the cities of Portland, New York, San Francisco, and Milwaukee and compare/contrast with the Nashville proposal recently unveiled in *The Plan of Nashville, Avenues to a Great City*. Investigation of each case will include the relationship of the removed freeway to the wider transportation

plan, the impact of local and regional traffic patterns, and the benefits experienced for each city.

The 21st Century Waterfront Plan is a \$120 million transformation of 129 acres of downtown riverfront. One of the first and most critical aspects of this plan was the "reclamation" of a 5-lane, limited access highway from the State of Tennessee. This road has now been "calmed" by reducing the number of travel lanes to two and by adding parallel parking, street trees, lighting, and an esplanade for pedestrians and cyclists. New intersections were also added to improve overall circulation in downtown.

PLANNED COMMUNITIES

Oak Ridge and Norris

David Bradshaw and Mike Carberry

This presentation will focus on the planning and building of the secret city of Oak Ridge in the historical context of the Manhattan Project, and on Norris, built in the early 1930s by TVA as a planned community and based loosely on the "garden city" principles.

FREIGHT AND GOODS MOVEMENT

A Study for the Nashville Region

Brad Thompson, Preston Elliott and Jerry Everett

This session is intended to highlight the experiences and understanding of commodity flows at the state level and also at the metropolitan level. The University of Tennessee (UT) Center for Transportation Research is currently providing assistance to TDOT on current practices and tools for addressing freight transportation planning. The culmination of the research by UT and the Nashville Area MPO and the Clarksville MPO experiences will be presented - providing valuable insights into how other cities and regions can begin to better understand and plan for freight transportation.

Friday, September 23

8 a.m. - 9:15 a.m.

TDOT'S INTELLIGENT TRANSPORTATION SYSTEM (ITS)

Improving Safety and Reducing Congestion

Rodney Chester, John Benditz and Don Dahlinger

The Tennessee Department of Transportation's new Memphis Region Intelligent Transportation System (ITS), called "TDOT SmartWay," is designed to help reduce traffic congestion and improve safety through the use of vehicle detection devices, closed circuit television cameras, dynamic message signs, highway advisory radio and an extensive communications system. The "nerve center" of the system is a state-of-the-art Transportation Management Center. The presentation will provide an overview of the overall system and will focus in more detail on the system in Memphis, Knoxville, and Nashville. Each system is at a different stage in development and implementation.

9:30 a.m. - 10:45 a.m.

IMPLEMENTING A SUCCESSFUL BICYCLE AND PEDESTRIAN PROGRAM A Case Study of Nashville, Tennessee

2005 CONFERENCE SCHEDULE

PRE-CONFERENCE WORKSHOPS	
Tuesday, September 20	
8 a.m. - 5 p.m.	Site Planning Roundtable Management Training Workshop
Wednesday, September 21	
8 a.m. - 12 noon	Leadership Training Workshop
CONFERENCE SCHEDULE	
Wednesday, September 21	
11 a.m. - 7 p.m.	REGISTRATION
Noon - 1:30 p.m.	TARA Executive Committee meeting
MOBILE WORKSHOPS	
Noon to 4 p.m.	Tour the City of Norris, TVA's "greenbelt town" (lunch provided)
1 - 5 p.m.	Canoe trip down the French Broad River blueway conservation corridor
1:30 - 4 p.m.	4th E. Gill and Mechanicsville Neighborhoods Tour
2 - 4 p.m.	TDOT Traffic Management Center Tour
6:30 - 8:30 p.m.	OPENING RECEPTION: The Women's Basketball Hall of Fame
Thursday, September 22	
7 a.m. - 7 p.m.	REGISTRATION
7 a.m. - 8:15 a.m.	TSITE Business Meeting
8:15 a.m. - 8:45 a.m.	Welcome from Knoxville Mayor Bill Haslam and Knox County Mayor Mike Ragsdale
CONFERENCE SESSIONS	
9 a.m. - 10:15 a.m.	CONTEXT SENSITIVE SOLUTIONS: <i>A Timeless Way of Streetbuilding: Integrating Traffic Calming into the Design of Urban Streets</i>
9 a.m. - 10:15 a.m.	TENNESSEE GROWTH READINESS PROGRAM
9 a.m. - 10:15 a.m.	PUBLIC INVOLVEMENT: <i>Going Successfully from a Vision to a Recommendation; Nine Counties, One Vision: Community Participation in the Design Process</i>
10:30 a.m. - 11:45 a.m.	URBAN REDEVELOPMENT: <i>Applying the Transect - From the Plan through the Codes; From Vision to Brick and Mortar</i>
10:30 a.m. - 11:45 a.m.	SAFE ROUTES TO SCHOOL
10:30 a.m. - 11:45 a.m.	STRATEGY FOR BIG BOXES: <i>Changing a Reactive Position into a Proactive Strategy</i>
Noon - 1:30 p.m.	LUNCHEON: Jim Coltran - <i>Urban Trees - Resources for Livable Communities</i>
1:45 p.m. - 2:45 p.m.	CORRIDOR PLANNING: <i>Which Comes First? Sevier County Transit for the Future</i>
1:45 p.m. - 2:45 p.m.	COMMUNITY SCHOOLS: <i>Making Stone Soup with Public Space</i>
1:45 p.m. - 2:45 p.m.	EFFECTIVE MEDIA RELATIONS
3 p.m. - 4 p.m.	URBAN FREEWAYS: <i>Urban Freeway Removal: A Review of Selected Cases; Chattanooga's 21st Century Waterfront Plan - Rerouting a Freeway</i>
3 p.m. - 4 p.m.	PLANNED COMMUNITIES: <i>Oak Ridge and Norris</i>
3 p.m. - 4 p.m.	FREIGHT AND GOODS MOVEMENT: <i>A Study for the Nashville Region</i>
BONUS MOBILE WORKSHOPS	
3 p.m.	Walking Audit with Mark Fenton: Community Walkability Assessment
4 - 6 p.m.	Downtown Knoxville Redevelopment Walking Tour
6 p.m.	RECEPTION with cash bar
6:30 p.m.	AWARDS BANQUET: Keynote by Mark Fenton - <i>Active Living by Community Design</i>
Friday, September 23	
7 a.m. - Noon	REGISTRATION
8 a.m. - 9:15 a.m.	TDOT'S INTELLIGENT TRANSPORTATION SYSTEM (ITS): <i>Improving Safety and Reducing Congestion</i>
8 a.m. - 9:15 a.m.	ASLA Business Meeting
8 a.m. - 9:15 a.m.	AMPO Meeting
9:30 - 10:45 a.m.	IMPLEMENTING A SUCCESSFUL BICYCLE AND PEDESTRIAN PROGRAM: <i>Nashville Case Study</i>
9:30 - 10:45 a.m.	KNOXVILLE DOWNTOWN REDEVELOPMENT
9:30 - 10:45 a.m.	REGIONAL AND COMMUNITY PLANNING: <i>Kingsport Tomorrow; Blount County</i>
11 a.m. - Noon	CONTEXT SENSITIVE SOLUTIONS <i>Applying Traditional Community Planning Practices to Roadway Planning and Design in Tennessee; Transforming the Kentucky Transportation Cabinet</i>
11 a.m. - Noon	INNOVATIVE PLANNING PRODUCTS: <i>The Plan of Nashville; Chattanooga's Downtown Plan</i>
11 a.m. - Noon	PUBLIC WAYFINDING IN THE BUILT ENVIRONMENT: <i>"Don't Make Me Turn This Car Around!"</i>
Noon - 1:00 p.m.	LUNCHEON: Paul Morris - <i>Creating a Sustainable Community from the Grassroots Up</i>
1:50 p.m. - 3:00 p.m.	OUTDOOR LIGHTING
1:50 p.m. - 3:00 p.m.	INVASIVE SPECIES AND THE DEVELOPMENT PROCESS

WORKSHOPS

PRE-CONFERENCE WORKSHOPS

No charge, but you must pre-register

Tuesday, September 20

8 a.m. - 5 p.m.

SITE PLANNING ROUNDTABLE MANAGEMENT TRAINING WORKSHOP

Participants learn how to integrate water quality considerations into their planning process and integrate best practices into their development rules. They learn how to organize and lead a Site Planning Roundtable in their community. Through a Roundtable, community leaders will recommend changes to existing development rules and processes. They choose from a menu of 22 model development principles that lead to economically viable and environmentally sensitive development.

Wednesday, September 21

8 a.m. - 12 noon

LEADERSHIP TRAINING WORKSHOP

Participants learn how to explain the complex issues and choices surrounding land use and water quality. They do this through presentations to elected officials, developers, builders, farmers and residents. In these presentations, they suggest actions that each group can take to have both development and water quality. Presentations are based on work by the University of Connecticut's NEMO program (NEMO = Non-point Education for Municipal Officials).

CONFERENCE HOTEL



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888.303.1746

To make a reservation for the special conference rate, please be sure to mention "TAPA conference."

Conference Hotel Rates

Single or Double bed = \$89

King or Queen bed = \$99

This rate does not include tax.

This rate is available for September 21-23, 2005.

Reservation Deadline

Reservations at the above rate will be accepted until **August 21, 2005** or until the group block is full, whichever comes first. Reservations made after August 21 will be processed at the best available rate.

MOBILE WORKSHOPS

Limited capacity, you must pre-register

Wednesday, September 21

Noon to 4 p.m.

Tour of the City of Norris - TVA's "Greenbelt Town"

Created in 1934 as a model settlement by planning pioneers Earle Draper and Tracy Augur, Norris retains much of its original charm. Its housing and town design, parks and greenbelt, and the nearby Norris Dam will be seen and discussed on this tour. (Lunch will be provided)

1 - 5 p.m.

Canoe Trip Down the French Broad River Blueway Conservation Corridor

The French Broad River canoe trip will start at Seven Islands Wildlife Refuge, Knox County's 400-acre peninsula park that is being converted from a farm into a spectacular wildlife refuge with walking trails and river access. We will be canoeing around the peninsula, by the seven islands, and finish at the historic Huffaker Ferry Crossing. The float will last approximately 2 hours.

1:30 - 4 p.m.

4th & Gill/Mechanicsville Neighborhoods Tour

This tour will take participants through Historic Fourth & Gill, an excellent example of the neighborhoods that flourished in Knoxville during the last quarter of the 19th Century, and through Mechanicsville, which contains a Traditional Neighborhood Development (TND) and infill housing. We will compare street standards, setbacks and other elements of neighborhood design in the old and new neighborhoods and talk about the similarities as well as the differences.

2 - 4 p.m.

TDOT Traffic Management Center

The Knoxville SmartWay system was unveiled in May of this year. This tour will show participants the Center that directs and monitors the 70 cameras and 16 dynamic message signs that make up the system.

Thursday, September 21

3 p.m.

Walking Audit with Mark Fenton

Community Walkability Assessment. This is a walk in which we look for fundamental elements which encourage and discourage walking. Participants will learn how to conduct an audit in their own neighborhood or community.

4 - 6 p.m.

Downtown Knoxville Redevelopment Walking Tour

Groups will have the opportunity to tour four sites in downtown Knoxville that have been or are in the process of redevelopment. These sites will showcase different examples of downtown buildings and the mix of uses. Speakers will be on hand at each site to talk about the redevelopment process and lessons learned.

Institute of Transportation Engineers

Student Chapter Annual Report

Prepared by:

The Institute of Transportation Engineers
Student Chapter at
The University of Tennessee, Knoxville



*The University of
Tennessee
Knoxville*

For the Period:

March 2004 to March 2005

University of Tennessee
ITE Student Chapter
Department of Civil and Environmental Engineering
223 Perkins Hall
Knoxville, Tennessee 37996

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Student Chapter Information

Student Chapter Officers

President:	Megan Blake (<i>March 2004 – May 2004</i>) Sal Sarcona (<i>September 2004 – March 2005</i>)
Vice President:	Sal Sarcona (<i>March 2004 – September 2004</i>) Andy King (<i>September 2004 – March 2005</i>)
Secretary:	Scott Beard (<i>March 2004 – March 2005</i>)
Treasurer:	Benji Whitehead (<i>March 2004 – December 2004</i>) James Norris (<i>January 2005 – March 2005</i>)
Webmaster:	Michael Cloud (<i>January 2005 – March 2005</i>)
Faculty Advisor:	Dr. Thomas Urbanik

Student Chapter Membership

Number of Student Chapter Members:	26
Number of Student Members of ITE:	21
Number of Students eligible to be a Student member of ITE:	26
Number of Faculty Members who are ITE members:	5

Information on Transportation Engineering Enrollment

Number of undergraduate students (sophomore – senior) in Civil Engineering:

Full Time:	200	Part Time:	25
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The curriculum does not allow an undergraduate student to major in Transportation.

Number of graduate students in Transportation:

Full Time:	18	Part Time:	10
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Summary of Student Chapter Activities

Awards

UTK Chapter:	2004 TSITE Chapter Award 1 st Place
Benji Whitehead:	2004 TSITE Student Scholarship
Manoel Castro-Neto:	2004 TSITE Student Scholarship
Manoel Castro-Neto:	2004 TSITE Student Paper Award 1 st Place
Sal Sarcona:	2004 TSITE Student Paper Award 3 rd Place

Regular Business Meetings

Regularly scheduled business meetings were held during the Spring and Fall semesters. These meetings were used to conduct student chapter business including collection of dues and notification of upcoming events. Furthermore, business meetings were used to solicit member feedback regarding special chapter events such as guest speakers, service projects, conferences, etc. Meetings generally also had speakers from the transportation profession, which are outlined in the following sections.

Professional Development

The following guests were present at most meetings as professional representatives:

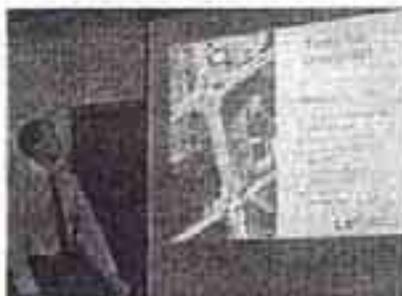
- Dawn Foster, Wilbur Smith Associates
Chair TSITE Career Development Committee
- Chris Kirby, Cannon and Cannon, Inc.
UT Representative for the TSITE Career Development Committee

These guests discussed interaction with the Tennessee Section of ITE and kept student members abreast of Section, District, and International ITE activities.

The following were guest speakers at the monthly meetings:

- **David Metzger**, City of Bristol, TN
Traffic Management on Race Weekends in Bristol, TN
April 2004
- **Greg Judy**, TSITE Secretary-Treasurer
Overview of ITE and Opportunities for Student Members
September 2004

- **Peter Koonce**, Kittelson & Associates
Baltimore Light-rail Study
October 2004
- **Kevin Cole**, Wilbur Smith Associates
I-40/Campbell Station Interchange Study
November 2004
- **Chris Rhodes**, Kimley-Horn and Associates, Inc.
Traffic Signal Optimization Study for the Metro Nashville Signal System
February 2005



Field Trips and Joint Meetings

- **Eighty – Fourth Annual Meeting Transportation Research Board:** Washington, D.C., January 2005. The Chapter arranged for members to attend the TRB annual meeting in January with financial assistance from the Southeastern Transportation Center (STC). Members of our chapter and other STC-affiliated students had an opportunity to attend a half-day demonstration at the Maryland Police Driver Training Facility in Sykesville, MD.



A short lecture on vehicle dynamics was presented and followed by hands-on training on a test track. Students were able to practice obstacle avoidance and ABS skidding at moderate to high speeds.

Additionally, students participated in TRB meetings, presentations, and workshops. Two chapter members, Scott Beard and Jacob Yohe, presented results of their research at a workshop.

- **TSITE Summer Meeting:** Fall Creek Falls State Park, TN, July 2004. Student chapter members Manoel Castro-Neto and Sal Sarcona both presented at the meeting. Manoel and Sal were each selected to present as a result of award-winning papers they had submitted in the student paper contest.
- **International ITE Annual Meeting:** Lake Buena Vista, FL, August 2004. Several student chapter members were able to attend the ITE Annual Meeting this year in Lake Buena Vista, FL. The students enjoyed a variety of technical presentations and networking opportunities.

- **TSITE Fall Meeting:** Pigeon Forge, TN, October 2004. The chapter arranged for interested students to travel to the TSITE Fall meeting. Students attended technical presentations and the Section business meeting. Chapter member Melany Noltenius was a featured speaker and presented her research on the feasibility of light-rail in East Tennessee.

Other Activities

- **Chapter Website:** During 2004-2005, the student chapter continued to maintain a chapter website, located at <http://web.utk.edu/~ite>. The chapter elected, for the first time, a webmaster to maintain the website. The webmaster will work to keep the website current with a variety of information regarding the student chapter, such as upcoming meetings, upcoming events, presentations made by guest speakers, links to other websites, current career opportunities, and a resume posting area.
- **Fundraisers:** The chapter conducted several fundraisers this year. These fundraising events helped the chapter to maintain financial health and to support the professional development of chapter members by funding involvement in various activities.
 - **T-shirts:** The chapter decided to design and produce chapter t-shirts for the first time this year. The shirts were sold to student members, alumni, professionals in the community, and anyone else interested. The sale was a huge success, and the chapter hopes to design new shirts each year.
 - **Traffic Counts and Studies:** The chapter has made itself available to community organizations and businesses to conduct traffic counts and studies. Student members of the chapter conducted one such study this year for a local convenience store chain. The chapter was approached by the owner to conduct two full-day counts at one particular store. Students volunteered for the counts in two-hour shifts over the two days. The data was then analyzed to identify any queuing issues at the driveway entrances to the store. The support from chapter members made this an extremely successful event.



Future Activities

- **Community Involvement:** In order to contribute to our local community and to raise awareness of the organization, the chapter is planning a volunteer event for the Spring 2005 semester. We have contacted officials at the Knoxville Safety City about volunteer opportunities. Safety City is a program administered by the Knoxville Police Department to raise safety awareness among grade-school children. The program teaches children about vehicular, pedestrian, bicycle, and fire safety. The Chapter is looking forward to this opportunity.
- **Planned Trips:** Chapter members will be traveling to Savannah, GA in April 2005 to attend the Southern District Annual Meeting. Furthermore, students from the UT Chapter will be representing the state of Tennessee in the first annual William H. Temple Scholarship Challenge.

Roster of Student Chapter Members

* Indicates a Student Member of ITE

Member	Degree	Anticipated Graduation Date
Alan Baker	MS CE	May-05
* Scott Baird	MS CE	May-05
* Megan Blake	MS CE	May-04
* Ben Brooks	MS CE	May-04
* Walte Brumakine	MS CE	May-08
* John Burris	MS Planning	May-04
* Manoel Castro-Neto	MS CE	May-05
* Michael Cloud	MS CE	May-05
* Jerry Everett	Ph.D. CE	Dec-05
* Kevin Fielder	MS CE	Dec-04
Zhongren Gu	Ph.D. CE	May-05
Edward Holton	MS Planning	May-04
Sam Howard	Ph.D. CE	Dec-04
* Leisa Jones	MS CE	Dec-05
* Vasin Kiattikomol	Ph.D. CE	May-05
* Andy King	MS CE	May-05
Zhenyang Li	Ph.D. CE	
* Andrei Neiculescu	Ph.D. CE	Dec-05
* Melany Noffenius	MS Planning	May-04
* James Norris	MS CE	Dec-05
* Randy Plummer	MS CE	Aug-05
* Salvatore Sarcona	Ph.D. CE	
* Jason Steger	MS CE	Dec-04
* Benji Whitehead	MS CE	Dec-04
* Jacob Yohe	MS CE	Dec-04
* Scott Younker	MS CE	

Transportation Faculty

Dr. Arun Chatterjee, Professor

Dr. Lee D. Han, Associate Professor

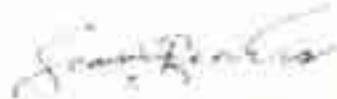
Dr. Steve Richards, Associate Prof. & Director of Southeastern Transportation Center

Dr. Tom Urbanik, Professor & Goodrich Chair of Excellence in Transportation

Dr. Fred Wegmann, Professor

Submission Signatures

Report Submitted By:



Scott Beard
Student Chapter Secretary
865/584-3176
sbeard@utk.edu

March 1, 2005

Content Approved By:



Dr. Thomas Urbanik
Faculty Advisor
865/974-7709
turbanik@utk.edu

Institute of Transportation Engineers

ANNUAL REPORT OF STUDENT CHAPTER ACTIVITIES From April 1, 2004 to March 31, 2005

STUDENT CHAPTER AT: VANDERBILT UNIVERSITY

1. STUDENT CHAPTER OFFICERS:

President: Nithin Gomez
Vice President: Amy Lenhardt
Secretary: Steve Froosman
Treasurer: Rob Furst
Membership Secretary: Ashley Thomas

2. STUDENT CHAPTER MEMBERSHIP

Number of Student Chapter Members: 68
Number of Student Members of Institute: 28
Number of Students eligible to be a Student member of the Institute: 85
Number of Faculty Members who are current ITE members: 2

3. DATA ON TRANSPORTATION ENGINEERING ENROLLMENT

Number of undergraduate students (Sophomore – Senior years) in your academic department. The vast majority of our undergraduate members come from Vanderbilt's Department of Civil and Environmental Engineering and that number is 83 full-time students. We have four members from our Engineering Science Program and one member from the Computer Engineering Department. CEE undergraduate engineering students are not required to take additional transportation courses besides the introductory transportation engineering course, which is required. Students from other programs or departments take transportation courses as electives.

The Vanderbilt CEE Department does not have undergraduate students majoring in transportation. All students are civil and environmental students who choose selected CEE courses based upon their interests. Obviously, some take more courses in a particular area and tend to consider themselves as having a transportation, environmental, or structural concentration.

Number of graduate students in Transportation: **2 Full-Time, 0 Part-Time**

4. SUMMARY OF STUDENT CHAPTER ACTIVITIES

From April 1, 2004 until March 31, 2005, Vanderbilt's ITE Student Chapter will have had seven meetings, 2 business meetings and 5 technical meetings. Three of our five technical meetings were joint meetings, two with Vanderbilt's ASCE Chapter and the third is an upcoming joint meeting in March to be held on Vanderbilt's campus with the Tennessee Section of ITE. We also had five students who attended the SDITE Annual District Meeting in Covington, KY in April, 2004. A fall field trip to TDOT's Traffic Management Center one evening in November, 2004 was also fun. Details are as follows:

April 2004 Technical Meeting:

Twenty-three (23) students attended a presentation by Travis Falls, a VU alumnus and engineer for Consoer-Townsend-Envirodyne in Nashville. He discussed several different planning and design studies performed by his firm.

April Southern District ITE Annual Meeting

Five (5) students, one graduate and four undergraduates, attended the 2004 Annual District Meeting in Covington, KY. The students enjoyed the technical and social activities of a professional meeting. Future career contacts were also made by several graduating seniors.

September Business Meeting:

Twenty-eight (28) students attended the first meeting of the fall semester. The organization and benefits of ITE membership were discussed, future meetings were discussed, and ITE student membership forms were distributed.

October Technical Meeting:

Twenty-nine (29) members attended a joint meeting with the VU ASCE Meeting where Ms. Gillian Fishbach, a VU alumnus and President of her own company, Fishbach and Associates, presented an informative question and answer session about transportation engineering consulting.

November Technical Meeting:

Twenty-six (26) students attended a meeting with presentations/discussions by Jeff Hammond and Greg Judy of Neel-Schaffer's Nashville Office. ITE membership and student chapter activities were promoted. Then Jeff Hammond presented an informative Power Point presentation on recent MUTCD changes.

November Evening Field Trip

Ten (10) individuals enjoyed touring TDOT's Traffic Management Center in Nashville on a November Tuesday evening. Mr. David Jean was our tour guide and provided many interesting tidbits of knowledge about the TMC operations, utilizing message boards on Nashville's interstate highways, and TDOT's Roadside HELP Program.

January 2005 Business Meeting:

Seventeen (17) students attended this organizational meeting where we discussed chapter activities for the upcoming semester.

February 2005 Technical Meeting:

Thirty-one (31) members attended a joint ITE/ASCE student chapter meeting where Brittany Wraight of Kimley-Horn's Raleigh, N.C. office and a Vanderbilt 2003 graduate reviewed five of her company's recent projects via a Power Point presentation.

March 2004 Technical Meeting:

The VU ITE Student Chapter is hosting a joint meeting with TSITE on March 3, 2005. Four technical presentations are planned by different presenters and we are both honored and excited about this upcoming event.

Concluding Summary of Year's Activities

In summary, the six VU ITE Student Chapter Meetings to date had a total of 154 student attendees with an average of approximately 26 students attending each meeting. Other field trips will be planned based on last year's experience at TDOT's TMC. We strive to have at least one VU ITE Student Chapter Meeting per month of the school year, and more when possible.

With approximately a 70-student population that demonstrates some level of transportation interest, the chapter is strong and is making good "in-roads" (pardon the

pun...) in developing transportation professionals. Interesting programs, professor encouragement, meeting announcements via emails, an evening field trip and strong marketing in transportation courses have helped accomplish much in 2004 and early 2005. A major goal next year is to continue growth, more joint ITE/ASCE joint meetings that have worked well, and hopefully some of our membership can attend the SDITE Annual Meeting in Savannah, GA in April.

Last year we had two graduating members to attend Graduate School in Transportation Engineering at other universities (Univ. of Illinois and Univ. of Virginia). Five of the thirty-three graduating CEE seniors in 2004 took transportation engineering consulting jobs. We consider continuing education and professional placement in the transportation engineering field as benefits of our ITE involvement and the programs and professional meetings afforded us. We would also be amiss if we did not thank our Faculty Advisor, Dr. Bob Stammer (aka "Doc Bob") for his enthusiasm, leadership and encouragement.

Last year was fun, enjoyable and productive. We were excited about increasing this year's membership from 44 to 68 (+50%) and an ITE Student Member growth from 19 to 28 members (+47.4%). Good planning and collective efforts from all our members can lead to even greater accomplishments next year.

5. ROSTER OF STUDENT CHAPTER MEMBERS

See **Attachment A** for a list of the 68 Vanderbilt Student Chapter Members. (The 28 Student Members of International ITE are denoted in **BOLD** while an asterisk denotes our two graduate students.)

Report submitted by:

Name: Nithin Gomez, Chapter President

Emails: nithin.m.gomez@vanderbilt.edu

Date: February 26, 2005

Contents approved by:

**Robert E. Stammer, Jr., Ph.D., P.E.
(Faculty Advisor)
615.343.8060**

hob.stammer@vanderbilt.edu

ATTACHMENT A

2004 MEMBERSHIP ROSTER

Vanderbilt University ITE Student Chapter Members

Note: 1) * indicates graduate students.

2) Names in BOLD type indicate International ITE Student Members.

Alkhouri, Yousif
Allen, Chris
Ansley, Samantha
Beck, Kimberly
Bellows, Jack
Binion, Jessie
Bowers, Ryan
Blum, Jeff
Booker, Chris
Brady, Chris
Burch, Amy
Chavez, Michael
Chi, Jake
Culbreth, Richard
Daberkow, Jonathan
Dalton, Taylor
Diamond, Angela
Eames, Josh
Edwards, John Riley
Fath, Kate
Fralick, Frank
French, Katherine
Froosman, Steve
Furst, Rob
Gambling, Will
Gibbs, Lauren
Gomez, Nithin*
Goodson, Lance
Graf, Andrew
Grandstaff, Hugh*
Hagan, Kyle
Higby, Jenn
Holthaus, Bill
Judy, Colleen
Kalachman, Jesse
Kurtz, Brianna
Kyle, Evan
Lancaster, Tory
Lenhardt, Amy
Lucas, Ross

Mackey, Karlos
Marsh, Brian
Martin, Laura
Masek, Ned
Masters, Jonathan
Matz, Bob
McRae, Lindy
Morris, Avery
Plettner, Lauren
Rosenbloom, Beverly
Rubin, Claire
Rush, Robert
Sagan, Krista
Sanders, Monica
Sands, Brad
Shoe, Stephanie
Snell, Tara
Spaulding, JB
Stone, Will
Svicarovich, Kristen
Thomas, Ashley
Turnipseed, Ben
Tuthil, Matt
Webster, Sarah
Wegerman, Michael
Weissman, Sarah
Westervelt, Virginia
Wilson, Jonathan

SUMMARY

68 Local Chapter Members
28 ITE Student Members

Tennessee Technological University
ITE Student Chapter
Annual Report
April 1, 2004 to March 31, 2005

1. Student Chapter Officers:

President:	Tyler King
Vice-President:	Daniel Moore (April - December 2004) Mary McFarlin (December - current)
Secretary:	Kim Couch
Treasurer:	Arshad Syed (April - September 2004) Rachel Burnette (September - current)

2. Student Chapter Membership:

Number of Student Chapter Members:	20
Number of Student members of Institute:	11
Number of Students eligible to be a Student member of the Institute:	20
Number of faculty members who are current ITE members:	2

3. Information on Transportation Engineering Enrollment:

Number of undergraduate students (Sophomore-Senior) in the TTU Civil Engineering academic department:	211
---	-----

TTU's curriculum does not allow an undergraduate student to major or minor in Transportation engineering.

4. Summary of Student Chapter Activities:

Please See Attached

5. Roster of Student Chapter Members:

Please See Attached

Report Submitted by:

Kim Couch
(615) 289-0559
klcouch21@mttech.edu
February 12, 2005

Contents Approved by:

Dr. Daniel Badoe
(Faculty Advisor)

Student Chapter Activities

Meetings:

Date	Description
11-Mar-04	Speaker: Greg Brown, City of Cookeville Engineer
27-Apr-04	Speaker: Dyan Damron, RPM & Assoc. Brentwood, TN
9-Sep-04	Speakers: Steve Allen, Greg Judy, and Jeff Hammond
23-Sep-04	Business Meeting
14-Oct-04	Speaker: Dyan Damron, RPM & Assoc. Brentwood, TN
11-Nov-04	Speaker: Fritz Gerald, Voelker & Associates, Chattanooga, TN
2-Dec-04	Speaker: Jason Carder, TTU Graduate
27-Jan-05	Business Meeting
3-Feb-05	Speaker: Bradford Watson, CTE Engineering Nashville, TN
10-Feb-05	Speaker: David Yates, Voelker & Associates, Chattanooga, TN

Field Trips:

1. Intelligent Transportation Systems of TN DOT
2. Highway Construction Site Visit (Widening of Willow Avenue South of Cookeville, Hosted by Austin Bateman, Highways Inc.)

TSITE Interaction:

1. Frequent contact with chapter liaisons: Dyan Damron and Fritz Gerald
2. Four student chapter members attended the Fall 2004 TSITE section meeting in Pigeon Forge, TN
3. Entry in 2005 TSITE Student Paper Competition

Projects:

1. Booth at the Fall 2004 TTU Basic Engineering fair
2. Safety presentation at local high school (in progress)

Student Chapter Members
(Fall 2004-Spring 2005)

Name	Degree Sought	Graduation Date
* Barlow, Andy	MS Civil Engin.	May 2005
Boyd, Marshall	BS Civil Engin.	Dec 2004
* Burnette, Rachel	BS Civil Engin.	May 2005
Byard, Ben	BS Civil Engin.	Dec 2005
Cabbage, Thomas	BS Civil Engin.	Dec 2004
* Chandler, Matthew	BS Civil Engin.	May 2006
Corbridge, Addie	BS Civil Engin.	May 2006
* Couch, Kim	MS Civil Engin.	Dec 2005
Godwin, Jeremy	BS Civil Engin.	May 2005
* Harr, Laura	BS Civil Engin.	May 2006
* Hasbrouck, Chad	BS Civil Engin.	May 2006
King, Tyler	BS Civil Engin.	May 2005
Mefarlin, Mary	BS Civil Engin.	May 2005
* Mittlesteadt, Wes	BS Civil Engin.	Dec 2005
Moore, Daniel	BS Civil Engin.	Dec 2004
Richardt, Matt	BS Civil Engin.	May 2006
* Swor, Ryan	BS Civil Engin.	Dec 2004
* Syed, Arshad	MS Civil Engin.	May 2004
* Underwood, Ethan	BS Civil Engin.	May 2005
* Waller, Jamie	MS Civil Engin.	May 2005
* Yendeti, Murali K.	MS Civil Engin.	May 2005

* Student Members of the Institute

TSITE initiated its first on-line voting procedure in 2005.

The screenshot shows a Microsoft Internet Explorer browser window with the address bar displaying <http://www.ite.org/survey/vote2005.htm>. The page title is "Home Page - Microsoft Internet Explorer". The website content includes a navigation menu on the left with categories like "What's New", "About TSITE", "Organization", "Publications", "Meetings/Events", "Local Meetings", "Special Events", "Joining", and "Student Awards". The main content area features a "Meetings/Events" banner and a section titled "On-Line Officer Voting For TSITE's 2006 Leadership".

On-Line Officer Voting For TSITE's 2006 Leadership

Thanks for participating in TSITE's inaugural electronic voting process. If you have any questions or would like to request a paper ballot, please contact Secretary-Treasurer Greg Judy (615-303-0420). [NOTE: A paper ballot will automatically be sent to members for whom we do not have an e-mail address on file]

Votes will be tallied and winners announced at the Summer Meeting during the July 9th business meeting.

Please choose one (1) candidate for each office.

International Members: Please vote in the President, Vice President, Secretary-Treasurer, and Section Representative categories. You must enter your five-digit ITE membership number for your vote to be counted. If you do not know your ITE Membership Number, consult your latest dues invoice or contact ITE membership director Wendy Leves.

President:	<input type="radio"/> Steve Allen
Vice President:	<input type="radio"/> Greg Judy
Secretary-Treasurer: View PDS	<input type="radio"/> Preston Elliott <input type="radio"/> Steve Meyer
Section Representative: View PDS	<input type="radio"/> John Sexton <input type="radio"/> John Wall

ITE Membership Number (5-)

Section Affiliates: Please vote in the Affiliate Director category.

Affiliate Director:	<input type="radio"/> Penny Stinson
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PROCLAMATION

BY THE EXECUTIVE BOARD

WHEREAS the Tennessee Section of the Institute of Transportation Engineers (TSITE) exists in part to increase and support the fellowship of its members in professional and civic duties; and

WHEREAS members of this organization, past and present, have contributed to the strength of Tennessee in professional endeavors and to the betterment of societies worldwide through active service in the armed forces of this nation; and

WHEREAS Mr. Willis D. Kervin, Jr. is such a member of TSITE who finds it fitting to dedicate his talents in the field of engineering to honorable service for these United States of America and who has continuously been an outstanding representative of TSITE and its ideals across the state,

BE IT THEREFORE RESOLVED by the Executive Board of TSITE with her 2005 membership concurring, that we honor with reverence and awe those persons serving under the flag of the United States of America including our fellow and friend

Sergeant Major Willis D. Kervin, P.E.

Tennessee Army National Guard 278th Armored Cavalry Regiment and we offer our thanks for his great courage and commitment to duty during a trying and perilous time.

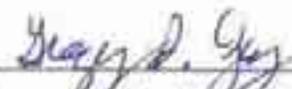
BE IT FURTHER RESOLVED that the undersigned Executive Board of TSITE, on behalf of her entire membership, does formally and gratefully acknowledge the many contributions of member Willis D. Kervin to the organization and to the profession of transportation engineering.



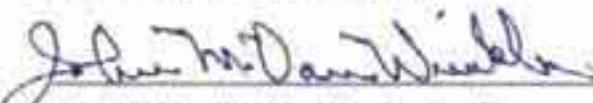
Jeffrey L. Hammond, P.E., President



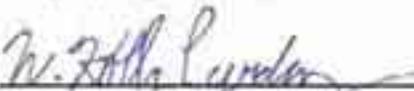
Steve L. Allen, Vice President



Gregory D. Judy, P.E., P.TOE, Past President



John W. Van Winkle, P.E., Section Representative



W. Hollis Loveday, P.E., Section Representative



Anthony D. Todd, Past President



Renny F. Stinson, Affiliate Director



why join **TSITE**

1 We're specialized. ITE prides itself on providing you with opportunities to grow in *your* profession. While our members come from different backgrounds and have varying interests, we all work directly in the transportation industry. That's an advantage in networking, continuous learning, and tackling the tough issues you face everyday.

2 You'll make a positive difference. Whether speaking at a meeting in Memphis, promoting good legislation in Nashville, working with students in Knoxville, or promoting our profession in any other way all across the state, our members take pride in the organization. We know you're committed to your work, ITE gives you opportunities to build on that commitment by making a positive contribution to society and to your profession.

3 Membership advantages. Look inside for more information!

"TSITE gives our students personal connections to the industry and links working engineers to the latest university research."
Dr. Marty Lipinski, Civil Engineering Department Chair, University of Memphis



The mission of the Tennessee Section of the Institute of Transportation Engineers (TSITE) is the professional development and growth of the traffic and transportation industry, promoting safe and efficient flow of people, goods and services. TSITE will work diligently to maintain and further enhance our professional organization by developing and supporting safe standards and sound guidelines for the practice of traffic and transportation engineering.

2005 BOARD OF DIRECTORS

PRESIDENT
Jeff Hammond, P.E.

VICE-PRESIDENT
Steve Allen

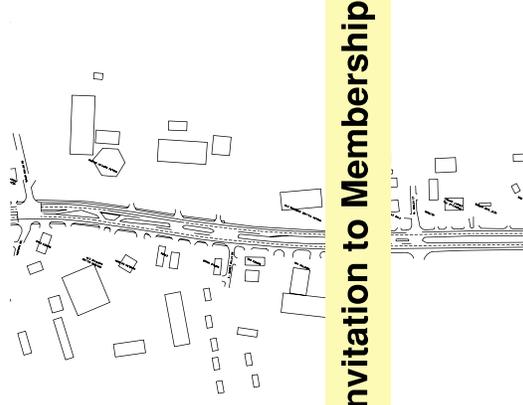
SECRETARY-TREASURER
Greg Judy, P.E., PTOE

AFFILIATE DIRECTOR
Renny Stinson

SECTION REPRESENTATIVE
John Van Winkle, P.E.

SECTION REPRESENTATIVE
Hollis Loveday, P.E.

PAST PRESIDENT
Anthony Todd



Invitation to Membership

TENNESSEE SECTION INSTITUTE OF TRANSPORTATION ENGINEERS



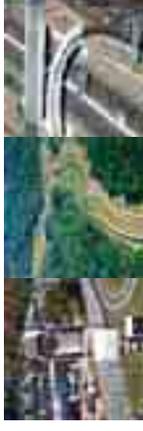
Your Professional Green Light



what we do **WHO WE ARE**

The Institute of Transportation Engineers (ITE), an international professional, educational and scientific association dedicated to the planning, design, implementation, operation, and maintenance of surface transportation systems worldwide. The Tennessee Section (TSITE) is just one of over 80 local ITE chapters. TSITE members are Tennesseans responsible for meeting our state's need for safe and efficient multimodal transportation systems. Our 300 members statewide include:

- city and county engineers
- public works directors
- MPO staff
- county road superintendants
- consulting engineers
- transportation planners
- travel demand modelers
- state highway officials
- equipment suppliers
- construction contractors
- engineering faculty
- transportation researchers
- engineering students
- engineering office managers
- federal highway engineers
- design technicians
- transit directors
- company principals





Why You're WANTED

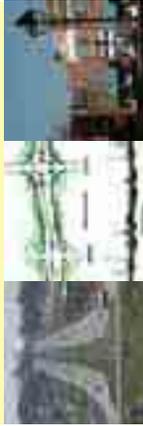
1 You've got good ideas! The demand for a better transportation system continues to grow amidst an ever-increasing driving population. TSITE needs more interested people to share their ideas, enthusiasm, and experience with us, so that together we can develop practical solutions to the problems associated with this demand.

2 A collective voice is the strongest. As we strive to promote the role and responsibility of the transportation engineering industry, your support makes a difference.

3 Relationships matter. TSITE brings professionals together on many levels. That's a benefit on your projects and to your career.

"TSITE puts members together on a personal level. Getting to know our customers and their needs is always a benefit."
Renny Stinson, Traffic Sales and Marketing, Nashville

"I've been an ITE member for over 34 years. It's been an outstanding organization for professional growth and my career has benefited greatly by having been a member."
Bill Moore, Consultant and former TDOT Chief Engineer, Nashville



Organization BENEFITS

	Section Affiliate (only, \$15)	International Member
Receive all issues of Tennessee Transportation News	✓	✓
Participation at quarterly TSITE and monthly local meetings	✓	✓
Complete access to www.tsite.org	✓	✓
Participation in TSITE programs including job postings and sponsor advertising	✓	✓
Receive 12 issues of ITE Journal		✓
Participation in specialty councils		✓
Discounted ITE publications, insurance, and other benefits		✓
Vote and hold office in TSITE		✓
Membership in ITE's Southern District		✓
Complete access to www.ite.org		✓

"Our affiliation greatly assists the Tennessee Department of Transportation key staff in keeping up with leading edge solutions to today's transportation challenges and opportunities."
Dennis Cook, Asst. Chief Engineer, TDOT Planning and Environment, Nashville



member ACTIVITIES

Our members enjoy these annual opportunities to meet...

- Quarterly technical and business meetings
- Quarterly monthly meals in Nashville, Chattanooga, and Knoxville
- Southern District and International Meetings
- Special joint sessions with other professional societies or ITE Sections

Service is structured through 10 standing committees...

- Audit
- Awards
- Career Development
- Legislative
- Membership
- Nominations
- Quiz Bowl Challenge
- Scholarship
- Section Relations
- Technical

And the state's top performers are recognized every year:

- Volunteer Distinguished Service Award
- Tennessee Section Outstanding Individual
- Jack B. Humphreys Young Member Award
- Robert Stammer Student Chapter Award
- William L. Moore, Jr. Student Scholarship and Runner-Up
- Student Paper Award and Runner-Up

"Being involved with TSITE has helped me to meet other transportation professionals across the state and develop relationships which will likely last for my entire career."
Jason Carder, Consultant, Kingsport



options for MEMBERSHIP

You have two. Choose to join as a Section Affiliate. Dues are just \$15 annually and you'll be in the loop with all of the Tennessee Section's activities. Or, become a regular ITE member. Basic membership starts at \$160 and includes dues for membership in the Southern District and Tennessee Section. See the benefits chart for a comparison.

apply now! TO JOIN!

As a Section Affiliate: Fill out an application form and mail with your dues payment. With your payment, you will already be supporting the future of Tennessee transportation as \$5 goes directly to the TSITE Scholarship fund!

As an International Member: Contact ITE International at (202) 289-0222 or www.ite.org/membership to obtain an application form and payment information.

for more information visit WWW.TSITE.ORG



ENCOURAGING PROFESSIONALS TO TEACH UNIVERSITY LEVEL CLASSES

Stephen E Meyer, P.E.¹

Edwin P. Foster, Ph.D., P.E.²

Abstract - Active participation of professionals in teaching college classes can provide college students an insight to what a profession in the class topic might involve. The process of identifying the problem, knowing the process for determining the solution, and having the tools to provide that solution is something that professionals in the field do every day. This paper concerns the approach that was taken by the University of Tennessee at Chattanooga and several civil engineering professionals to provide a teaching environment to university students in the transportation engineering field by those who provide engineering design solutions on a daily basis.

This paper presents the process of recruiting professionals, selecting the topics to be taught by those most familiar with the topics, setting the schedule for the class, coordinating the numerous administrative activities that had to take place for the execution of quizzes and exams using five professional engineers as professors.

Keywords: adjunct instruction, coordinated instruction, team teaching

INTRODUCTION

Growing and supporting an academic program is always a challenge for universities across the United States. With limited funding and a small student demand, academic administrators to look for creative ways to build a program by providing a strong academic curriculum. The University of Tennessee at Chattanooga (UTC) School of Engineering in late summer of 2004 desired to have an introductory transportation class (ENCE 362 Transportation I) taught to continue their efforts in providing a transportation specialty for their civil engineering graduates. In the past the Civil Engineering Program was able to find an engineer in industry to teach its transportation classes, but the time required for preparation and teaching the class left no individuals who wanted to commit the time and effort necessary for such a small compensation.

The second author discussed the need for an adjunct professor with many individuals in the Chattanooga community, but none were able to set aside the time to teach the class. The first author suggested that a team approach to the problem be used. Due to his business commitments, he would be out of town many of the days when class was to be taught. He would not be able to teach the class, but he did agree to recruit several transportation professionals and would become the program coordinator (PC).

¹ Volkert & Associates, Inc., 6016 Shallowford Road Suite 100, Chattanooga, TN 37421

Email: smeyer@volkert.com

² University of Tennessee at Chattanooga, 615 McCallie Avenue, Dept. 2502, Chattanooga, TN 37403

Email: edwin-foster@utc.edu

PROGRAM APPROACH

The UTC School of Engineering requires that adjunct professors have a Master's Degree in their field to teach undergraduate classes. This narrowed the field of potential instructors available for class instruction. Several contacts were made. The primary discussions surrounded the amount of time that would be needed to teach the class. Each individual expressed that the time commitment was too great for him or her individually but they offered to help on a part time basis. They were told that a team teaching approach was going to be used. Because the teaching responsibilities would be spread amongst several instructors, the time commitment was workable. They were very motivated to teach because they enjoy their profession and wanted to show students that the profession was challenging and rewarding. Five transportation engineering professionals with master's degrees in civil engineering agreed to teach up to six classes each during the fall semester of 2004. Of those five instructors, four were registered professional engineers and one was an engineer in training. The number of years of experience in the group amounted to over 80 years.

Time was very limited for preparation of the class topics, syllabus, selection of a textbook, and class schedule which were all critical for a successful class. Three weeks before the class was to begin, the five instructors, the PC and the second author met to lay the groundwork for class instruction. For the next two hours the instructors discussed all that was necessary to conduct the introductory transportation class. Once again, due to the limited time for preparing the class, it was decided the textbook that was available at UTC would be used. The text was *Transportation Engineering Planning and Design*, 4th ed., Wright and Ashford, 1998.

The semester would last from August 24 through December 2, 2004. There would be a total of 29 seventy-five minute classes. It was decided to have five examinations and a course final that would cover all the material covered during the semester. Several instructors brought the syllabus they had received when they took a similar course. Others reviewed class descriptions from other civil engineering programs across the nation. Much discussion took place on which topics would be covered and in what depth. The instructors expressed their desire on what topics they preferred to present. It was decided to give closed book closed note tests and to provide the students with all appropriate tables and figures. The syllabus went through several revisions over the next week which included references, how many tests would be given, how the tests would be given and how much weight would be given to homework and quizzes. The instructors' names, office telephone numbers and email addresses were listed to allow communication for the students. The final syllabus is listed below.

ENCE 362

TRANSPORTATION ENGINEERING I

FALL 2004

Textbook: Transportation Engineering *Planning and Design*, 4th ed., Wright and Ashford, 1998

References: Manual on Uniform Traffic Control Devices, 2003

Highway Capacity Manual, 2000 Edition

Roadside Design Guide

Manual of Transportation Engineering Studies (MTES)

Roundabouts: An Informational Guide (RAIG)

A Policy on Geometric Design of Highways and Streets, AASHTO

Class notebooks will be required for this course. Keep all class notes, homework problems, exams, and quizzes in this notebook. It will be turned in on the day of the final exam. (This will be returned to you at a later date.)

All exams will be closed book and closed notes. Any necessary equations or charts will be provided to you on the exam. DON'T MISS EXAMS! Any make-up exams, if deemed necessary, will be significantly harder!

Quizzes may be given at the beginning of each class and will cover the reading assignment for that day's lecture material. The lowest quiz grade will be dropped.

Final Exam will be closed book and closed notes. It will also be multiple choice questions. All other exams will have random questioning from essay to problem solving to fill-in-the-blank.

All homework assignments must be turned in before lectures begin. All late homework will have automatic deduction in grade.

Grading: Final Exam - 30%

Exam 1 - 5 - 50%

Homework - 10%

Quizzes - 5%

Class Notebook - 5%

Instructors:

Stephen Meyer Program Coordinator	Volkert & Associates, Inc.	O: 423-842-3335	smeyer@volkert.com
Bill Allen	Transportation Planning at North GA Regional Development Council	O: 706-272-2300	tpc@ngrdc.org
Fritz Brogdon	Volkert & Associates, Inc.	O: 423-842-3335	fbrogdon@volkert.com
Karen Headlee	Volkert & Associates, Inc.	O: 423-842-3335	kheadlee@volkert.com
David McFarlin	Volkert & Associates, Inc.	O: 706-278-9288	dmcfarlin@volkert.com
John Van Winkle	Chattanooga Traffic Engr.	O: 423-757-5005	vanwinkle@mail.chattanooga.gov

<u>Class</u>	<u>Date</u>	<u>Major Topics</u>	<u>Professor</u>	<u>Reading Assignment</u>
1	Aug. 24	Introduction & Class Overview Functional Classification	Bill Allen	Chap. 1-3

<u>Class</u>	<u>Date</u>	<u>Major Topics</u>	<u>Professor</u>	<u>Reading Assignment</u>
2	Aug. 26	Functional Design - Roadway	David McFarlin	Chap. 4 & 6
3	Aug. 31	Functional Design - Intersections	John Van Winkle	Chap. 13, Pg. 411-420 Handout RAIG Chap. 1 & 2
4	Sept. 2	Horizontal Alignment	Fritz Brogdon	Chap. 12
5	Sept. 7	Vertical Alignment	Fritz Brogdon	Chap. 12
6	Sept. 9	Exam #1		
7	Sept. 14	Pavement Design	Bill Allen	Chap. 14, pg. 457-473
8	Sept. 16	Drainage	Fritz Brogdon	Chap. 14, pg. 427-447
9	Sept. 21	Drainage	Fritz Brogdon	Chap. 14
10	Sept. 23	Drainage	Fritz Brogdon	Chap. 14
11	Sept. 28	Exam #2		
12	Sept. 30	Earthwork	Fritz Brogdon	Chap. 14, pg. 447-456
13	Oct. 5	Roadside Design	Karen Headlee	Chap. 13, pg. 392-397
14	Oct. 7	Traffic Control Devices	Karen Headlee	Chap. 5, pg. 113-125
15	Oct. 12	Capacity Analysis- Roadway	David McFarlin	Chap. 8
16	Oct. 14	Capacity Analysis- Intersections	John Van Winkle	Handout, HCM 2000 Chap. 10, p.10-9 to 10-35
17	Oct. 19	Exam #3		
18	Oct. 21	Fall Break - No Class		
19	Oct. 26	Traffic Studies	John Van Winkle	Chap. 8, Handout MTES Chap.2,3,11
20	Oct. 28	Traffic Studies	John Van Winkle	Chap. 11, Handout MTES Chap. 9
21	Nov. 2	Bicycles/Pedestrians/ADA	Bill Allen	Handout
22	Nov. 4	Bicycles/Pedestrians/ADA	Bill Allen	Handout

<u>Class</u>	<u>Date</u>	<u>Major Topics</u>	<u>Professor</u>	<u>Reading Assignment</u>
23	Nov. 9	Exam #4		
24	Nov. 11	Parking Design	Karen Headlee	Chap. 15, pg. 482-487
25	Nov. 16	Railroad Design	David McFarlin	Chap. 4, pg. 98-109
25	Nov. 16	Railroad Design	David McFarlin	5, pg. 132-133 Chap. 12, pg. 363-364 367, 379-384, 360-362, 356-357, 351-353 Chap. 13, 397-411, 420-425 Chap. 15, 487-497
26	Nov. 18	Airport Design	David McFarlin	Chap. 4, pg. 84-93 Chap. 5, pg. 134-147 Chap. 6, 178-181 Chapters 16, 17 and 18
27	Nov. 23	Exam #5		
28	Nov. 25	Thanksgiving - No Class		
29	Nov. 30	Program Modeling/ Software Intro		
30	Dec. 2	Review Class for Final	ALL	

PROGRAM IMPLEMENTATION

Early in the process there was the realization that coordination between the instructors was going to be critical to have a successful teaching environment. There was also a large amount of reading required by the class and there was no time to get all the publications into the campus library. The PC requested that all instructors either send to him their respective readings in a PDF format or send the documents to him for scanning and creating a PDF document. Each of the documents was copied to a CD and given to the second author who then created 18 CDs, one for each student in the class. This way each student would have the reading materials for each class available on any computer.

The decision to have quizzes before a class period was suggested to encourage students to read the class assignment before the class period. A problem arose in returning the quizzes due to the number of changes of instructors during the course. A system was devised to have the grading instructor transport the tests back to a campus mailbox. The next instructor had to be reminded that the previously graded papers were available for distribution.

This created a problem not only for quizzes but for questions in general. When there is not a consistent instructor available on campus, how do you answer students' questions? If the questions were straightforward, the instructor in the classroom answered the question. If the instructor could not answer the question, the student had to contact the instructor who precipitated the question in the first place. In most instances the students used email to get their questions answered.

One thing that was observed during the teaching process was that with the numerous references, homework problems presented the need and the practice for students to understand where to go and how to use the references as it is practiced by engineers on the job. This is a process the professionals use daily during their work day and were able to convey during the class period.

Developing and grading of exams created another challenge. The PC would send an email at least a week in advance of an exam to the instructors who taught the respective classes since the last exam. The length of the exam was seventy five minutes, so the length of time they were allowed for exam questions was determined by dividing the number of classes they taught into seventy five. The PC would then receive questions from each instructor and have them copied to the exam. Also the answer key was to be sent to the PC which would be given to the students after the exam. Because each instructor had to grade his or her questions, those questions of that instructor had to be placed on separate sheets on the exam. After the exam each instructor received the appropriate pages to grade. The exams were then put back together, points added up and total numerical grades were written on the front of the exam. The PC then returned the exams to the campus mailbox for distribution. This turned out to be a very time consuming process and since the class only met on Tuesdays and Thursdays, it could be a week before the test was returned.

PROGRAM RECOMMENDATIONS

At the time of this publication the class is still being taught, so the final assessment of its success or failure will be made in the near future. However a few lessons can be passed on now.

1. Select your instructors as early as possible for the class.
2. Start selecting the textbook and readings at least 3-4 months before class is to begin to allow for textbook and publication ordering and delays.
3. See what you can do to compensate the professionals for the time and effort required. This will increase the potential number of recruits you will find who will commit to the endeavor. Universities might consider special foundation grant monies. Another possibility would be to have local engineering firms donate gifts to a fund for the project. They will definitely benefit by hiring more qualified engineering students from the program. Another option is to have individual engineering professionals also donate to the fund for special instructional programs.
4. When recruiting, make sure the PC is aware of all of the latest teaching tools available at your institution and how they could be used. Provide instruction as needed.
5. Make sure the PC sets aside plenty of time for coordinating multiple professionals.
6. The PC needs to establish and maintain communications between professionals for smooth operations.
7. If there are special laws, rules or guidelines instructors should be informed on what those are. In this case there were requirements from ABET for which the instructors had to conform.
8. When preparing for the class instruction, make sure any prerequisites necessary for students to successfully take the course are identified and listed as prerequisites for the class.

9. Do not allow professors to overload students with reading materials outside of their textbook. Supplementing the textbook is necessary for some topics, but making students responsible for materials that aren't readily available to them is not always fair. Providing one copy of that book in the library is not sufficient if you have more than just a few students in a class. Have professors introduce the supplemental handbook and build on the topics out of their original text.
10. Tell your instructors that the instructions for homework should be very specific. When a 1000-page manual is made available and a question is asked about how important is this material – do not answer “everything!”. The students really want to know which pages should be read and studied in detail.
11. Professors should be aware of the time and effort that is involved in giving students feedback. Whether grading homework or exams, professors should be responsible for providing the students a quick turn-around for grades and be as available as possible to answer questions.
12. Give each instructor and each student an email address list of all students. Then when a student asks a question by email all other students should be copied. The instructor should then click on “Reply to All” when answering the question.

CONCLUSIONS

The primary purpose of the program presented above was to recruit professionals to teach college engineering classes and provide a quality classroom experience for the students. Recruiting the professionals to teach the class was not nearly as difficult as coordinating the class content presentation and providing a consistent method for instructors and students to communicate outside of class time. Overall, the response from the instructors was positive and a number of students indicated that their experience with professionals in the field added to their learning experience. Of the eighteen students in the class, there was only one D and one F awarded at the end of the semester.

Another concern was the compensation which is often offered for instructors to come in on a part time basis. The amount of experience the instructors had for this course was over 80 years in transportation engineering and professional engineering licenses. Currently the compensation for the class is \$1500 for preparing the class content, reviewing homework, making and grading tests and providing consultation to students. If two hours were assigned for preparing for each contact hour of 28 classes (which was less than it actually took) and 1.25 hours for instructing the students for each class period there was a total of $(28 * 1.25 * 3)$ or 105 hours. For a professional engineer with a Master's Degree with at least 10 years of experience to provide consulting services you would expect to pay \$100 per hour as a minimum. The cost for consultation would be $105 * \$100$ or \$10,500 as a minimum. This should be taken into consideration the next time you want to have professionals come teach your engineering classes as an adjunct instructor.

Biographical Information - Stephen E. Meyer, P.E. is an Assistant Vice President at Volkert & Associates, Inc. located in Chattanooga, Tennessee. He received a Bachelor of Science in Engineering from the University of Tennessee at Chattanooga graduating Magna Cum Laude with Honors in Engineering and received his Master of Science Degree in Civil Engineering from the University of Minnesota. He has several publications in transportation journals. He has practiced transportation engineering for over 30 years. He is a Registered Professional Engineer in 14 states and serves on several professional and community boards of directors. He is a member of ITE, ASCE, IMSA, NSPE and ACEC.

Biographical Information- Edwin P. Foster, PhD, P.E. is Professor of Civil Engineering and Director of the Graduate Engineering Program at the University of Tennessee at Chattanooga. He received his B.E., M.S. and Ph.D. from Vanderbilt University with a year of postgraduate work at the University of Illinois at Urbana. He has over fifty publications in five countries and has been with the University of Tennessee for thirty-six years. He has worked for American Bridge Division of U. S. Steel in Cocoa Beach, Florida; Brown Engineering in Huntsville, Alabama. He was a NASA-ASEE Summer Faculty Fellow and is a member of ASCE and ASEE.