Bill Kervin, P.E. 1952-2006

This spring, we were saddened by the sudden loss of friend and colleague, Bill Kervin. Bill was known to the Section and the profession as an outgoing, personable, and truly unique individual.

Before working for the Knoxville offices of consulting firms CH2M-Hill, Kimley-Horn, and Allen & Hoshall, Bill was Director of Engineering and Public Works for Knox County, Tennessee. He provided direct engineering staff support to the county executive. His responsibilities also included: administration of all county Engineering and Public Works activities, contract administration for all county public work improvements, design and construction of transportation projects and storm water collection systems, fleet management, solid waste, buildings and grounds maintenance, and codes enforcement.

Mr. Kervin has also served as a city engineer and public works director for municipalities in Tennessee and West Virginia. He was a Past President of TSITE.

Mr. Kervin obtained his Bachelor of Science degree in Civil Engineering and Master of Engineer degree in Public Works Engineering from the University of Tennessee, Knoxville. According to classmate Craig Hanchey, the latter degree was established by Bill as he saw a need for the specific Public Works course of study.

Bill had just returned from Iraq where he served as a member of the 278th Tennessee Army National Guard for almost two years. TSITE recognized his service to country in a proclamation awarded in October 2005. He leaves wife Kathy and daughter Holly in Knoxville.

Bill was a valued colleague, a hard worker, and an honorable mentor who will be missed.

Re-Cap of 2006 Summer Meeting and Auction

Continuing the TSITE/Fall Creek Falls tradition, about 70 members and family found their way to the state’s premier park for an activity-filled weekend. This year, the meeting began earlier on Friday, allowing for a somewhat more relaxed technical session.

A break gave attendees an opportunity to meet with supporting affiliates outside of the session room. The board along with Affiliate Director Renny Stinson is using the Summer Meeting as an opportunity to explore ways to bring more interaction with affiliates to the membership. Hopefully, in future meetings, affiliate members will be engaged to a greater degree in meeting activities and events. TSITE hopes to make this meeting a showcase event for its members. Be sure to share your ideas on making this annual meeting an event not to be missed with the TSITE officers.

Friday’s technical sessions began just after lunch with Carl Baughman (City of Franklin) discussing his city’s ITS programs. Shaun Quayle (UT Knoxville) presented his research on Red Light Cameras: Safety and Enforcement in Knoxville and Abroad. Shaun was the TSITE Student Paper Award 1st Place Winner. Dr. Steven Click (Tennessee Tech University) shared some research on Non-Traditional At-Grade Intersections. Presenting a 2006 TRB Award Winning Paper, Manoel Castro-Neto and Dr. Tom Urbanik (UT Knoxville) spoke on Traffic Signal System Research.

Continued on Page 8.

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TIME TO...
CHECK YOUR CALENDAR!

<table>
<thead>
<tr>
<th>Event</th>
<th>Dates</th>
<th>Location</th>
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<tbody>
<tr>
<td>TSITE Fall Meeting</td>
<td>September 24-26</td>
<td>Chattanooga, TN</td>
</tr>
<tr>
<td>TAPA Annual Conference</td>
<td>September 6-8</td>
<td>Nashville, TN</td>
</tr>
<tr>
<td>TN-APWA Annual Conference</td>
<td>October 17-20, 2006</td>
<td>Knoxville, TN</td>
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</tbody>
</table>
The following points of business were addressed at the Spring and Summer Meetings:

Due to extraordinary profits from last year’s joint fall meeting in Knoxville, TSITE’s financial records are stronger than ever before. The board voted to make a one time special contribution of $10,000 to the TSITE Scholarship Fund. This puts the fund over $38,000.

Organizational membership levels are growing. As of the Spring Meeting, TSITE is made up of 315 members and affiliates.

Section sponsorships have more than doubled this year from 6 to 13. Be sure to look for sponsor recognition in the newsletter.

Billy Kemp of Tennessee’s Be in the Click program was on hand at the Summer Meeting to discuss this program. TSITE will be investing $1,500 to begin the program at three high schools this fall. The purpose of this venture is to help increase awareness of seat belt safety and reward students for active participation in safe driving behavior. Three TSITE members, Stephanie Ivey, Tyler King, and John Van Winkle have volunteered to oversee activity in their respective regions. Anyone interested in participation with the program should contact Steve Allen.

AWARDS!

TSITE wishes to congratulate the winners of this year’s Student Scholarship and Student Paper Competitions.

Shaun Quayle of the University of Tennessee took this year’s William L. Moore, Jr. Student Scholarship. Shaun is a graduate student and currently working on two National Cooperative Highway Research projects. He is Secretary of the UT ITE Student Chapter. His award is $1,500 and he accepted this in person at the Summer Meeting.

Manoel Castro-Neto of the University of Tennessee claimed the second Student Scholarship. He is a doctoral candidate in Civil Engineering and is currently Vice-President of the UT Chapter. Manoel’s $1,500 award was also accepted personally at our Summer Meeting. This award makes him the first repeat-winner of a TSITE Student Scholarship.

First Place Winner for the 2004-2005 TSITE Student Paper Competition was Shaun Quayle of University of Tennessee, Knoxville. Shaun submitted a student paper entitled, “Red Light Cameras: Safety and Enforcement in Knoxville and Abroad”. Shaun received $250 dollars for his first place paper and presented this research at the Summer Meeting.

The Second Place Student Paper Winner was Alisa Cotter of Vanderbilt University. Alisa submitted a student paper entitled, “Accident Site Analysis & the Use of Collision Diagrams”. Alisa received $100 for second place.

The Robert Stammer Student Chapter Award was also presented at the Summer Meeting. The University of Tennessee again took the premier student chapter spot just edging outstanding entries from Vanderbilt and Tennessee Tech. This means that UT will again represent TSITE at the Temple Scholarship Challenge in Knoxville, 2007.

Also, congratulations to Greg Judy on his selection as a scholarship recipient to attend ITE’s Annual Meeting in Milwaukee this year. Look for Greg’s article on Page 7.

TRB Conference Comes to Nashville

10th “Tools of the Trade” coming soon

TRB is sponsoring the 10th National Conference on Transportation Planning for Small and Medium-Sized Communities: Tools of the Trade on September 13-15, 2006, in Nashville, Tennessee. The conference is designed to provide ready-to-use, economical, and practical techniques for transportation professionals in small (under 50,000) and medium-sized (50,000 - 250,000) communities.

Topics expected to be examined include small urban system planning, livable communities, transit planning, rural transportation planning, technology sharing, project programming process, transportation logistics, public involvement, and environmental issues.

The conference takes place at the Sheraton Nashville Downtown. Registration costs $250 and will be available on site. For more information, see http://www.trbtoolsofthetrade.org/conference.html
Spring Meeting Anything but the Blues

Another good turnout in West Tennessee

Returning to the Bluff City for the first time since February of 2004, the TSITE Spring Meeting highlighted some of the top projects in the region. Presentations were given by Craig Timothy, (Traffic Logix) Tyler King (TDOT – Division of Project Planning), and Drake Danley, P.E. (SSR Transportation Division).

An attendance figure somewhere around 60 members provided a good audience for the west Tennessee meeting. Especially noticeable were large contingencies from the City of Memphis and the University of Memphis.

Meet the Officers

2007 leadership elected at Summer Meeting

In it’s second year, TSITE’s on-line voting again proved to be a successful way to handle the balloting process. Though initial vote “turnout” was low, a few well-placed reminders from Secretary Meyer helped bring the vote count to roughly 35% of eligible voters. Following TSITE protocol, the President, Vice President, and one of the Section Representative seats ran uncontested. Up for grabs were the Secretary-Treasurer, one Section Representative, and Affiliate Director positions. Here are the 2007 officers of ITE’s Tennessee Section:

President: Greg Judy, P.E.
Vice President: Steve Meyer, P.E.
Secretary-Treasurer: Rodney Chester, P.E.
Past President: Steve Allen
Section Representative (06-07): John Sexton, P.E.
Section Representative (07-08): Cindy Pionke, P.E.
Affiliate Director: Renny Stinson

Here’s a little about the “new” additions to the board.

Rodney Chester is a Principal with Gresham, Smith and Partners and currently manages their Memphis office. Rodney has been with GS&P for 9 years and was previously in the Nashville office before moving to Memphis in the Fall of 2003. Rodney is a graduate of the University of Alabama with a Bachelor’s Degree in Civil Engineering and a Master’s Degree in Transportation Engineering.

Rodney’s experience includes a wide range of transportation engineering services including Intelligent Transportation Systems (ITS), special events traffic management plans, traffic studies, signal design, transportation planning studies and roadway design.

Rodney was previously the project manager for the design of TDOT’s Smartway ITS System in Nashville and is currently the project manager for TDOT’s Memphis Smartway System. Rodney has also worked on ITS projects in Alabama, Georgia, Kentucky, Arkansas and Mississippi.

Rodney is a member of ITE and has made numerous presentations at Local, State and National ITE meetings.

After working in Pittsburg, Oak Ridge, Arlington, TX, and Atlanta, Cindy Pionke went to work for the Knoxville/Knox County Metropolitan Planning Commission (MPC) in 1991. She worked there for 7 years doing plans review and long range transportation planning and modeling serving as Transportation Planner first and advancing to Senior Transportation Planner in 1996. She received the Knoxville/Knox County MPC Excellence Award in 1995. Her work included interaction with elected officials and the public, as well as authoring several documents and policies adopted by the MPC using her engineering and planning skills developed from her training and background.

She moved to the head up the Planning and Development Division of the Knox County Engineering Office and Public Works Office where she currently serves as Director. She manages 3 groups: Engineering, Traffic Control, and Storm Water and has recently developed a Traffic Calming program.

She has been a registered professional engineer since 1990 and is a guest lecturer at the University of Tennessee. She has been a member of the American Society of Civil Engineers (ASCE) since 1979 and was given the Government Engineer Award in 2004 by the Tennessee Section of ASCE.

She has served as Secretary/Treasurer in 2000, Vice President in 2001, and President in 2002 for TSITE and has represented TSITE by volunteering in the preparation for the Engineer Awards Banquet in the Knoxville region for the past 3 years. She is a co-chair for the Southern District meeting to be held in Knoxville in 2007 and has served TSITE on committees and in numerous capacities.

She lives in Knoxville and is married to Chris Pionke, who is an Associate Professor in the Department of Mechanical, Aerospace and Biomedical Engineering at the University of Tennessee in Knoxville.
BULLETIN BOARD

In September and October, the ITE Educational Foundation will offer suites of training courses for the PTOE, TOPS and TSOS certification exams. Each suite of courses will be offered at a substantial discount. Take advantage of this opportunity to prepare for the upcoming exams or to brush up on your skills, as these courses won’t be offered again until spring 2007.


For information on the topics to be covered in each module, to register and to visit frequently asked questions, visit [www.ite.org/education/webinars.asp](http://www.ite.org/education/webinars.asp). Once you are ready to take an exam, visit [www.ite.org/certification/examschedule.asp](http://www.ite.org/certification/examschedule.asp) for future exam dates and locations. Application forms for all exams must be received at least 30 days prior to the exam date.

Allstate says Chattanooga, Knoxville in top 10 of America’s safest driving cities! Nashville, Memphis all in top 25. See the complete list here: [http://www.msnbc.msn.com/id/12954585/from/ET/](http://www.msnbc.msn.com/id/12954585/from/ET/)

For those of you out there that feel that the Traffic Engineering profession doesn’t get enough good PR, you need to go to the movies and see Mission Impossible III. Early in the movie, Tom Cruise, star undercover agent for the MI group, is at a cocktail party, when someone asks him “How’s the (Virginia) Department of Transportation?”.

He responds telling how fascinating traffic is, and how a single driver tapping his brakes can slow traffic down for miles behind. Posing as a VDOT Traffic Engineer is his cover role. Later in the movie there is a scene where a box is knocked over and VDOT brochures tumble out. Without telling the outcome of the movie I can tell you one irony regarding his fake identity - a traffic jam is what gets him into trouble later in the movie. I guess that is fitting for a traffic engineer. – Bob Canfield

ITE “mega issues” are technical or policy topics that represent significant issues facing the transportation community and are topics in which ITE should play a leadership role. A white paper on each issue and summary of the ITE Board of Direction discussion is provided at [www.ite.org/mega](http://www.ite.org/mega).

We need your help to reach out to prospective members and encourage them to join ITE. Be one of the top three recruiters and you will win an Apple iPod™. Details at [www.ite.org/weekly/ipod.asp](http://www.ite.org/weekly/ipod.asp).

The TTN Bulletin Board is an open forum for ITE members. As space permits…you send it, we’ll print it!
What Do People Do After Earning A Science And Engineering Bachelor’s Degree?

*National Science Foundation studies whereabouts of your classmates*

*By Mark Regots (edited), Science Resource Statistics InfoBrief, July 2006*

The science and engineering (S&E) bachelor’s degree is the gateway degree for most of those seeking more advanced S&E education. It is also the highest level of education attained by the majority of those performing R&D in the United States, and it provides a large body of workers in many different occupations and work activities with S&E knowledge.

A decade or more after earning their degree, about half of all S&E bachelor’s degree recipients (51 percent) had earned no additional degrees (figure 1). The other half had earned a wide variety of additional degrees. About one in eight S&E bachelor’s degree recipients (13 percent) had received an advanced degree in the same broad field of study as their first bachelor’s degree, including 4 percent who had earned a doctorate in the same broad field.

Additional-degree award patterns differ by broad field of initial bachelor’s degree. Engineering (42 percent) and mathematics and computer sciences (39 percent) produced the lowest percentages of individuals earning additional degrees. About half or more of those who received bachelor’s degrees in other S&E fields went on to earn additional degrees, ranging from 60 percent for those in the physical sciences to 49 percent for those in the social sciences.

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One measure of the utility of an S&E bachelor’s degree in the workplace is gauged by two survey questions that ask respondents whether their job (1) requires a bachelor’s degree level of knowledge or higher in the natural sciences (i.e., physical and life sciences), engineering, mathematics, or computer science; or (2) requires a bachelor’s degree level of knowledge in the social sciences.

**Bachelor’s-degree only.**—In 2003 a majority (57 percent) of those in the labor force with only their original S&E bachelor’s degree reported that their job required at least a bachelor’s degree level of S&E knowledge (figure 2). This percentage is only slightly smaller than that reported by those with more than one university degree (63 percent).

**Advanced degrees.**—Over half of S&E bachelor’s degree recipients who went on to earn a master’s degree in business (59 percent) reported in 2003 that they required at least a bachelor’s degree level of S&E knowledge in their job. About one-third of those with a business master’s earned their bachelor’s degree in the social sciences. Although economics, a social science, has an obvious relationship to business, only 14 percent of S&E bachelor’s degree holders with a business master’s reported that social sciences were a job.

*Continued on Page 6.*
requirement, whereas over half (51 percent) reported that their job required at least a bachelor’s degree level of knowledge in the natural sciences.

Another measure of the utility of an S&E bachelor’s degree is how relevant it is to the degree holder’s job. In 2003, 72 percent of workers with only an S&E bachelor’s degree reported that their job was related to their degree. Of these individuals, 40 percent said their current job was closely related to their field of degree, and 32 percent said their job was somewhat related. In 2003 for all S&E fields combined, just under three quarters of those who had graduated 1 to 24 years earlier reported that their job was related to their degree, declining to around two-thirds for those who had graduated more than 25 years earlier (figure 3).

The extent to which a job was reported as being related to field of degree differed by broad fields. In general, those with bachelor’s degrees in engineering and mathematics and computer sciences were the most likely to report that their job was related to their degree. Although bachelor’s degree holders in the social sciences were the least likely to report that their job was related to their degree, a majority held jobs they reported as being related to their degree, even 35 or more years after graduation.

Regardless of the relationship of their job to their degree, many workers whose sole degree is an S&E bachelor’s appear to move into management occupations during their career (figure 5). In 2003, for all S&E degree fields, the proportion in management occupations was highest (22–23 percent) among those who had graduated 25 to 34 years before. Movement into management does not necessarily mean leaving S&E work behind. The percentages of managers and of all workers with S&E bachelor’s degrees who reported that their work was related to their degree were nearly the same (71 compared with 72 percent). However, a smaller proportion of managers (29 percent) than of all those with an S&E bachelor’s degree (40 percent) made the stronger statement that their job was closely related to their degree, and 20 percent of managers reported R&D as a major activity, compared with 37 percent of all with S&E bachelor’s degrees.

**TABLE 2.** Workers in non-S&E occupations whose sole degree is an S&E bachelor’s, by relatedness of job to degree: 2003

<table>
<thead>
<tr>
<th>Selected occupations</th>
<th>Number in occupation</th>
<th>Closely related (%)</th>
<th>Somewhat related (%)</th>
<th>Not related (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>All non-S&amp;E occupations</td>
<td>4,882,173</td>
<td>29.4</td>
<td>33.5</td>
<td>37.1</td>
</tr>
<tr>
<td>Non-S&amp;E manager and management related</td>
<td>1,023,000</td>
<td>25.2</td>
<td>42.1</td>
<td>32.2</td>
</tr>
<tr>
<td>S&amp;E manager</td>
<td>113,000</td>
<td>56.5</td>
<td>34.7</td>
<td>8.8</td>
</tr>
<tr>
<td>Sales occupation</td>
<td>800,000</td>
<td>15.5</td>
<td>34.0</td>
<td>50.6</td>
</tr>
<tr>
<td>S&amp;E K–12 teacher</td>
<td>129,000</td>
<td>82.2</td>
<td>14.9</td>
<td>2.8</td>
</tr>
<tr>
<td>Other K–12 teacher</td>
<td>213,000</td>
<td>50.4</td>
<td>32.2</td>
<td>17.4</td>
</tr>
<tr>
<td>Technical, technology, or surveyor</td>
<td>796,000</td>
<td>46.5</td>
<td>35.3</td>
<td>18.2</td>
</tr>
<tr>
<td>Health occupation</td>
<td>305,000</td>
<td>49.6</td>
<td>33.0</td>
<td>17.4</td>
</tr>
<tr>
<td>Social service occupations</td>
<td>265,000</td>
<td>57.8</td>
<td>31.5</td>
<td>10.7</td>
</tr>
<tr>
<td>Artist, editor, or writer</td>
<td>81,000</td>
<td>18.7</td>
<td>33.3</td>
<td>48.0</td>
</tr>
<tr>
<td>Non-S&amp;E, postsecondary teacher</td>
<td>17,000</td>
<td>48.3</td>
<td>32.8</td>
<td>19.3</td>
</tr>
</tbody>
</table>

SOURCE: National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT), 2003.
Two in a Row!

**TSITE again lands young member at meeting**

For two years, ITE’s Transportation Consultant’s Council has supported the attendance of young members at its Annual Meeting through a scholarship program. In return for an entry application and written statement of interest, this year’s committee awarded seven nationwide scholarships of $1,000. For each of these two years, Tennessee has been represented in the scholarship recipients.

This year, Greg Judy was awarded the trip to Milwaukee, Wisconsin to participate in ITE’s Annual Meeting. Greg was required to draft a meeting summary and the following paragraphs are excerpts from it:

“...The Institute’s continued dedication of reaching out to its young, prospective and student members at all levels of the organization is vital in establishing a relationship between the organization and its members. I think most ITE members would agree that the technical, policy, social and administrative services that the Institute provides are a valuable part of a person’s career.

The focus of the Milwaukee conference clearly centered on the meeting’s technical sessions and vendor exhibits. This year’s meeting included five distinct areas of topics: Planning, Engineering/Design, Safety, Mobility/Operations and Implementation/Special Topics. Although ITE’s breadth of subject areas has certainly expanded over time, I noticed that the attendance at traditional traffic engineering sessions was noticeably larger than others. That’s not to say that all the smaller sessions were not important or needed. But, at the end of the day, traffic engineers, like most professionals, gravitate toward areas that are at the heart of the industry. Such is the state of the practice: even as new technology and issues arise, our profession maintains a close connection to those things that are at the root of our training and profession. Topics like traffic engineering design, safety and operation are the basis of what we do as practitioners. And we should not lose sight in the fact that public policy and decision makers continue to look to us for guidance on these issues.

Comparisons between the technical sessions at the International Annual meeting and those held at District and Section meetings also caught my attention. It was particularly interesting that many of the International meeting’s sessions focused on the results of research or investigative efforts on specific issues, and not so much the overview of an implemented project. Another observation made regarding the qualifications of the speakers. As opposed to staff-level members presenting the topics, it was the organizations’ department heads, principals, directors and chiefs that were present to conduct the seminar. I think both trends show that all involved appreciate the importance of the meeting and ITE’s role and position as a stakeholder.”

**Thanks, sponsors!**
Before dinner, the TSITE student awards were presented (see Page 2 of this edition for more information). The annual auction followed with usual generosity by all attendees. This year’s auction featured plenty of vintage stop signs (some yellow and outlined with rhinestone-reflectors) and copies of a rare 1960’s-era magazine spoofing the ITE Journal courtesy of Darcy Sullivan.

The final auction proceeds came to $4,541, all to be deposited into the TSITE Scholarship fund.

In keeping with tradition, attendees enjoyed the comfortably-rustic setting of the Stansells’ cabin just off the park boundary. Thanks to the Stansells for the hospitality and delicious BBQ lunch.

Tech-Heavy Fall Meeting in Chattanooga, ITSGA Joins in
The Georgia Chapter of ITS America and TSITE have planned our respective meetings to coincide this September at the Chasttanoogan Hotel.

The following topics will be some of those discussed at the ITS-based meeting:
- Ramp Metering
- Rural ITS Deployment
- Weather Monitoring Systems
- Work Zone Planning
- Incident Management
- 511 Roll-Out
- Trucking Industry Perspectives
- Vehicle Infrastructure Integration (VII)

Full registration is $295 and includes 5 meals at the Bluff View Arts Center, historic Chattanooga Choo-Choo Station House, and the posh Chattanoogan Hotel.

Registrants are responsible for personal room reservations (Chattanoogan at 1-800-619-0018, group ID # 191972). Registration forms and other meeting information can be found in PDF format at www.tsite.org.