



THE UNIVERSITY of TENNESSEE **UT**  
KNOXVILLE  
COLLEGE OF ENGINEERING

# ITE Student Chapter Annual Report

Feb 16, 2013 to February 15, 2014

Department of Civil & Environmental Engineering—325 John D. Tickle Building, Knoxville, Tennessee 37996-2313

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Date: 2/15/2014

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(Phone)

(Email)

Contents Approved by: Dr. Chris Cherry

Date: 2/15/2014

(Name)



## President's Letter



Greetings! This is Jun Liu, a third-year doctoral student in the Department of Civil and Environmental Engineering at the University of Tennessee, Knoxville. I am very grateful and honored to succeed Stephanie Hargrove and serve as UTK-ITE's student chapter President. It is a great privilege to be a part of this memorable time for our chapter.

In 2013-2014, we welcomed five new graduate students to our group. The news students have brought new energy and ideas. We also said farewell to some well-loved members as they go on to pursue consulting, research and teaching careers. Along with the new arrivals and sad departures, our chapter also welcomed two new transportation faculty members. Ongoing support from our students, professors, and department staff has allowed our chapter to grow in opportunities.

The members of UTK's ITE student chapter continue to earn many accolades through competition, scholarship, and publication. Three of our members (Bryan Bartnik, Zane Pannell, Jiangjiang Yang) represented our chapter and had a resounding victory in the 2013 ITE Traffic Bowl. They won at the state and southern district competition level, and had a very strong showing in the International Collegiate Traffic Bowl held in Boston, MA. We also had multiple members highlighted at the TSITE and SDITE meetings when they were honored with Student Paper awards.

Our chapter is pleased to share all of our accomplishments and undertaking of the past year with you. Enjoy!

Sincerely,

Jun liu

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OFFICER POSITION	NAME
PRESIDENT	JUN LIU
VICE PRESIDENT	HYEONSUP LIM
SECRETARY	ZIWEN LING
TREASURER	JUN LIU
WEBMASTER	JIANJIANG YANG
ASCE LIAISON	STEPHANIE HARGROVE
SOCIAL DIRECTOR	DUA ABDELQADER

# I. Chapter Business

The following sections summarize the official business of our student chapter with respect to membership, chapter meetings, and plans for the coming year.

## Membership

### Student Chapter Membership

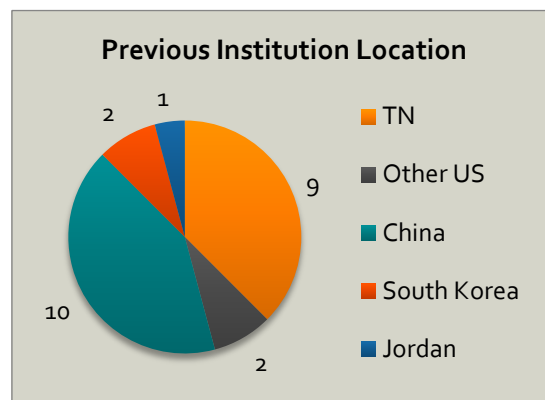
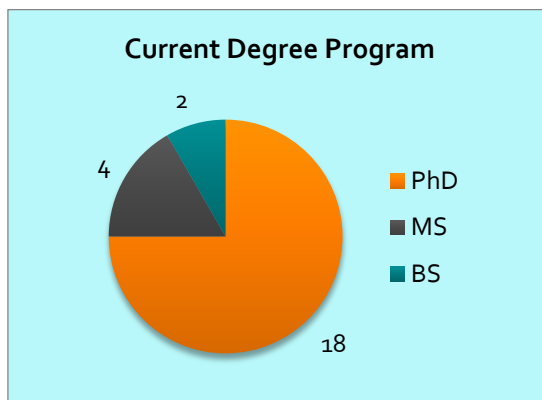
- NUMBER OF STUDENT CHAPTER MEMBERS: 24
- NUMBER OF STUDENT MEMBERS OF THE INSTITUTE: 10
- NUMBER OF STUDENTS ELIGIBLE TO BE A STUDENT MEMBER OF THE INSTITUTE: 24
- NUMBER OF FACULTY MEMBERS WHO ARE CURRENT ITE MEMBERS: 5

### Information on Transportation Engineering Enrollment

- NUMBER OF UNDERGRADUATE STUDENTS IN YOUR ACADEMIC DEPARTMENT: 323
  - FULL TIME: 323
  - PART TIME: 0
- DOES YOUR CURRICULUM ALLOW AN UNDERGRADUATE STUDENT TO MAJOR OR MINOR IN TRANSPORTATION? NO
- NUMBER OF GRADUATE STUDENTS IN TRANSPORTATION: 14
  - FULL TIME: 14
  - PART TIME: 0

### Membership Profile

Student membership this year reflected a group with diverse interests and backgrounds. Of our 24 student members, the majority are doctoral students, many of who are pursuing joint degree programs with UT Knoxville's statistics department. Research opportunities have led two of our American students to summer studies in China, the home country of nine of our members. Our membership is primarily male, with four women and twenty men.



We welcomed three new students to our graduate program this past year, and graduated six of our Master's and Doctoral students. Our recent graduates have gone on to secure successful positions in industry and academia.

Name	Position	Organization	Location
Zane Pannell (MS)	Engineer	Tennessee Department of Transportation	Knoxville, TN
Bryan Bartnik (MS)	Engineer	Tennessee Department of Transportation	Knoxville, TN
Hongtai Yang (PhD)	Postdoctoral Research Associate	Department of Civil and Environmental Engineering-University of Tennessee, Knoxville	Knoxville, TN
Casey Langford (PhD)	Postdoctoral Research Associate	Department of Civil and Environmental Engineering-University of Tennessee	Knoxville, TN
Wei Lu (PhD)	Postdoctoral Research Associate	Computational Science and Engineering Division-Oak Ridge National Laboratory	Oak Ridge, TN

## Chapter Meetings

Our chapter is dedicated to providing frequent meetings with high educational value and research relevance. Official chapter meetings occur almost every Thursday during the Spring and Fall semesters and include a guest speaker related to transportation, either coordinated by our transportation faculty or in conjunction with related departments at UT Knoxville. Throughout the school year, we also hosted official meetings for special event planning and competition practices. The following table lists our ITE meetings and includes descriptions of the guest speakers. At each meeting, faculty and student members engaged in discussion of topics presented.

*\*We use the dates 2/20/2013 to 2/14/2014 due to the submission dates required by TSITE (mid-February).*

DATE	SPEAKER	DESCRIPTION
2/21/2013	Lisa Murray	Lisa Murray talked about current presentation trends in the workspace and discussed 6 techniques to improve the power of PowerPoint. Leave with an annotated bibliography of resources and a fresh perspective.
4/2/2013	Students from Farragut Middle School	They won a national C-SPAN short documentary film competition. These students, Parin Bhaduri, Austin Hoag, and Nalin Varma, created a documentary called "Public Transportation in the Nation"
4/2/2013	Dr. Oscar Franzese	The presentation gives an overview of the Federal Motor Carrier Safety Administration Wireless Roadside Inspection Program and focuses on the current phase of the project that just started. If successful, the next phase will be the national deployment of the program.
4/11/2013	Dr. David Bassett, UT Knoxville	Prof. David Bassett, from UT's Department of Kinesiology, Recreation, and Sport Studies gave a seminar entitled: Encouraging Physical Activity and Health Through Active Transportation.
4/18/2013	Dr. Martin Wachs,	Martin Wachs is a preeminent scholar in transportation engineering and planning. He holds PhD and MS degrees in urban and regional planning from Northwestern University and a BS degree in civil engineering from the City University of New York. He is a senior principal researcher at RAND and a professor at the Pardee RAND Graduate School. Wachs examined this trend in transportation finance and suggested some alternative futures and their possible consequences, including local option transportation sales taxes and new forms of user fees.

DATE	SPEAKER	DESCRIPTION
8/29/2013	Dr. Joshua Fu, UT Knoxville	Baker Center's Energy and Environment Seminar series is a campus-level high-visibility event that features many nationally known speakers.
9/5/2013	Chapter Meeting	Officer elections.
9/5/2013	Dr. Dave Clarke	The title is "Vision for the UT Center for Transportation Research and the on-going activities."
9/12/2013	Dr. Jason Henderson	Dr. Henderson is from Department of Geography and Human Environmental studies, San Francisco State University. He gave a lecture named "Level of service: the politics of reconfiguring urban streets in San Francisco, CA"
9/19/2013	Dr. Shashi Nambisan	The title of his presentation is: "Enhancing Road Safety: Practical Considerations in an International Context."
9/26/2013	Dr. Kathy Caldwell	The title is "Vision: Engineering our Future". Dr. Caldwell gave an introduction of ASCE and let audiences think about the future of engineering.
10/3/2013	Jim Flood	The title is "Breakthrough Performance: Safety Leadership". The speaker is Vice President Arctic/Eastern Canada Exxon Mobile
10/10/2013	Dr. David Greene, UT Knoxville	Past large-scale energy transitions have been driven by technological change and market forces, and have taken on the order of half a century to complete. Accomplishing a large-scale energy transition to secure public goods (climate protection, energy security, and sustainability) poses new challenges for public policy, economics and engineering. The petroleum-fueled, internal combustion engine powered transportation system has been perfected over a century and is supported by a vast human and capital infrastructure. Transitioning to sustainable energy sources will require: 1) improved alternative vehicle technologies, 2) new knowledge and methods for policy analysis and planning and, 3) a new paradigm for public policy that can cope with long-time scales, large public investments and deep uncertainty.
10/15/2013	Chapter Meeting	Planning for "Engineers Day".
10/24/2013	Dr. Asad J. Khattak UT Knoxville	Dr. Asad J. Khattak is Beaman Professor of Civil & Environmental Engineering and Director of Safety Programs-Center for Transportation Research at University of Tennessee, Knoxville, where he teaches and conducts research in transportation. Instantaneous driving decisions are part of incessant human behavior during driving, strongly affecting safety outcomes, energy consumption and tailpipe emissions. To accommodate changes in surrounding environment, drivers make instantaneous decisions, such as maintaining speed, accelerating, braking, maintaining acceleration or deceleration, or increasing the rate of acceleration or deceleration (referred to as jerk, which is the decision to change the marginal rate of acceleration and deceleration).
10/26/2013	Chapter Meeting	Engineer's Day
10/31/2013	Pete Costello	Pete Costello is INRIX's Director Business Development, Public Sector, based in Orlando, Florida, who leads INRIX projects in the Americas. Collecting traffic information from road sensors and broadcast radio stations is not a scalable approach to delivering high quality traffic information across complex road networks. A new approach has been proven by INRIX in aggregating, analyzing and distributing traffic data derived from probe vehicles. Crowdsourcing technologies, methods and business models will be discussed that can provide agencies and drivers with instant access to the most comprehensive and reliable traffic and routing information available.

DATE	SPEAKER	DESCRIPTION
11/7/2013	Dr. Nagui Roupail	Dr. Nagui M. Roupail is Director of the Institute for Transportation Research and Education (ITRE) at North Carolina State University, a post he held since January 2002. His presentation describes a decision making framework based on a travel time reliability methodology developed under the U.S. Strategic Highway Research Program (SHRP2, Lo8), "Incorporation of Travel Time Reliability in the Highway Capacity Manual." Existing operational methods consider a set of predefined prevailing conditions for the analysis of freeway facilities as the base case. On the other hand, the reliability methodology accounts for multiple recurring and non-recurring congestion sources to estimate the expected travel time distribution over a long time horizon.
11/21/2013	Dr. L. Ruby Leung	The title of her talk is "Modeling the Effects of Climate Change and Water Use on Regional Water Availability".
1/9/2014	Chapter meeting	In preparation for the TRB annual meeting: <ol style="list-style-type: none"> <li>1. Mrs DeAnna Flinchum and Mrs. Molly Mitchell (from STC) briefly discussed logistics for TRB Annual meeting.</li> <li>2. CEE graduate transportation students present the papers that were accepted for presentation at the Transportation Research Board annual meeting in Washington, D.C</li> </ol>
1/23/2014	Dr. Steve Richards, UT, Knoxville	Titled "Research and Educational Programs of the STC: opportunities for faculty, staff, and students. The STC research agenda addresses key research needs cited in Moving Ahead for Progress in the 21 <sup>st</sup> Century Act (MAP-21), namely, to improve highway safety and infrastructure integrity.
2/6/2014	Randy M. Walker	Mr. Randy Walker is a Transportation Programs Manager for the Computational Sciences and Engineering Division, Oak Ridge National Laboratory, his lecture titled Freight 2.0: A New Paradigm for Freight Security & Safety Systems in a Connected World.
2/13/2014	Dr. Greg Reed,	Dr. Greg Reed is the Associate Vice Chancellor for Research, UTK. The Topic is "The Current Health and Well-Being of Research in the United States"





## Future Activities

Our immediate future plan is an outreach activity in March called "Breakfast of Champions." The outreach event is part of an effort to encourage top high schoolers, who have been admitted to UT College of Engineering, to choose to attend UT Knoxville in the fall of 2014. ITE Chapter members will showcase the driving simulator to students and their parents. Also ITE Chapter members are making an increased effort to make more contributions to the community of Knoxville. We plan to join an activity named "Start Something for Kids in Your Community" which means ITE Chapter members will Partner with Big Brothers Big Sisters through Bowl for Kids' Sake to help make a positive and long-lasting impact on children.

## II. Professional Activities

There were many opportunities to engage with the transportation industry this past year. The following section highlights meeting attendance and presentations. These activities, allow us to gain vital knowledge and relationships.

### ITE Meetings



#### Tennessee Section ITE (FEB 2013)

Our student chapter attended the 2013 TSITE Winter Meeting at the University of Tennessee, Knoxville, TN, where we competed in the Traffic Bowl. Zane Pannell, Bryan Bartnik, and Jianjiang Yang won the TSITE Traffic Bowl Champion.

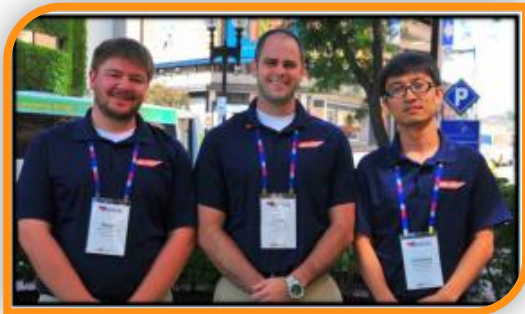
Stephanie Hargrove and Bryan Bartnik were featured in the ITE Connect. They were invited to write an article about the University of Tennessee, Knoxville student chapter titled "Top Five Reasons ITE is Invaluable to Transportation Students". They list five reasons ITE is invaluable to transportation students.



#### Southern District ITE (APR 2013)

The Annual SDITE meeting was held in Charlotte, NC. in April 2013. University of Tennessee was the champion for 2013 SDITE Traffic Bowl. Nine teams competed, Clemson University, Mississippi State University, Auburn University, North Carolina State University, University of Kentucky, Virginia Tech, Southern Polytech State University, University of Louisiana and University of Tennessee.

Our Traffic Bowl team was invited to compete in the William Temple Scholarship Challenge Traffic Bowl. The UT Knoxville member attendees included C. Langford, W. Lu, Woodburn, H. Yang, S. Hargrove, J. Yang, B. Bartnik, T. Yoon and Z. Pannell.



### International ITE Annual Meeting in Boston, MA (AUG 2013)

Our Traffic Bowl team won 2nd Place at the Traffic Bowl Grand Championship. They missed first place by the narrowest of margins – losing to the University of Florida by only 1 point!

## Conferences

### Transportation Research Board (JAN 2014)

The ITE UT Knoxville student chapter members went to Washington DC to attend the 93th Transportation Research Board (TRB) annual meeting which was held during January 2014. We drove vans together from Knoxville to DC. During the conference, student members attend exhibits, presentation sessions, poster sessions and committee meetings that are closely associated with their study concentration. Six chapter members, listed below, presented their research in either poster sessions, committee meetings or lecture sessions. TRB continues to serve as a great opportunity to showcase our research and network with international peers in the transportation field.



- “Short-Term Freeway Speed Profiling Based on Longitudinal Spatial-Temporal Dynamics” Poster Session (J. Yang)
- “Driver Behavior at Railway-Highway Grade Crossings with Passive Traffic Controls: A Driving Simulator Study” Poster Session (J. Liu)
- “How are Driver Characteristics related to Safety at Railroad-Crossings? The case of Passive Railroad Grade Crossings” Poster Session (J. Liu)
- “What is the Level of Volatility in Instantaneous Driving Decisions?” Lecture session(J, Liu)
- “User Behaviors on Regular and Electric-Assist Bicycles with Regard to Safety in an On-Campus Electric Bicycle Sharing System” Lecture session (C. Langford)
- “Pedestrian Level of Service at Signalized Intersections in China Using Contingent Field Survey and Pedestrian Crossing Video Simulation” Poster Session (Z. Ling)
- “Evacuee Compliance Behavior Analysis Using High-Resolution Demographic Information” Poster Session (W. Lu)



- "Effects of Data Resolution and Human Behavior on Large Scale Evacuation Simulations" Workshop of Doctoral Student Research (W. Lu)
- "Estimation of Pavement Damage Costs Caused by Heavy Vehicles Using Finite Element Analysis and MEPDG Distress Model" Poster Session (Q. Dong)

## UT Geography Research Symposium (FEB, 2014)

This symposium sought to highlight the Geographical Sciences as a meeting point for a broad range of disciplines exploring the changing distribution of both human and natural elements on our planet across space and time.

C. Langford gave a presentation titled "Studying User Behavior and Safety on Electric Bicycles Based on GPS Tracking Data".

## Bicycle Urbanism Symposium (JUN, 2013)

The International Bicycle Urbanism Symposium brought together practitioners, academics, policy makers and advocates with diverse backgrounds including urban design, planning, transportation, engineering, landscape architecture, and public policy. Speakers from around the globe lead sessions on topics including: imagining the 20-30 year future of bicycle-friendly cities, integrating bicycling into urban planning and design, effects of bike use on health and environment, policies for developing bicycle infrastructure and programs, best practices in bicycle facility design and implementation, advances in bicycle and gear technology and economic contributions, and implementing bicycle policies and plans-education, registration, finance, political, and public acceptance.

C. Langford gave a presentation titled "Evaluating Safety on Electric and Regular Bikes Using Observed Behaviors".

## Association of American Geographers Annual Meeting

The AAG Annual Meeting is an interdisciplinary forum open to anyone with an interest in geography and related disciplines, including fellow geographers, GIS specialists, environmental scientists, and other leaders for the latest in research and applications in geography, sustainability, and GIScience.

The ITE Student chapter member W. Lu gave a presentation titled ""Daily Population Mobility Prediction based on High Resolution Data and High Performance Computing".

## Other Lectures and Workshops attended:

- ELECTRIFYING THE VEHICLE MARKET IN THE SOUTHEAST, UNIVERSITY OF TENNESSEE, KNOXVILLE, TN. (MAY, 2013)
  - TECHNICAL REVIEW OF CLEAN CITIES ELECTRIC VEHICLE COMMUNITY READINESS PROJECTS, UNIVERSITY OF TENNESSEE, KNOXVILLE, TN. (MAY, 2013)
  - CONFERENCE ON AGENT-BASED MODELING IN TRANSPORTATION PLANNING AND OPERATIONS, BLACKBURG, VA. (SEP, 2013)
  - EUGENE P. WIGNER DISTINGUISHED LECTURE SERIES ON SCIENCE, TECHNOLOGY, AND POLICY, OAK RIDGE, TN (NOV, 2013)
  - NATIONAL EVACUATION CONFERENCE, JOINT WITH INTERNATIONAL DISASTER CONFERENCE AND EXPO. NEW ORLEANS, LA. (JAN, 2014)
-

## Student Publications

- ▼ Langford, B.C., C. Cherry, T. Yoon, S. Worley, D. Smith (2013). North America's first e-bike share: A year of experience. Transportation Research Record: Journal of the Transportation Research Board (in Press)
- ▼ Langford, B.C. and C. Cherry (2013). Planning for Electric Vehicles: Review of Clean Cities' Electric Vehicle Community Readiness Projects. Howard H. Baker Jr. Center for Public Policy. White Paper 5.13.
- ▼ J. Yang, L. Han and P. Freeze, (2014). Short-Term Freeway Speed Profiling Based on Longitudinal Spatial-Temporal Dynamics. Transportation Research Record: Journal of the Transportation Research Board (in Press)

## Student Awards

DATE	AWARD	AGENCY	RECIPIENT
Feb 2013	1 <sup>st</sup> place, TN Traffic Bowl,	Tennessee Section Institute of Transportation Engineers	B. Bartnik Z. Pannell J. Yang
Apr 2013	1 <sup>st</sup> place , SDITE Traffic Bowl	Southern District Institute of Transportation Engineers	B. Bartnik Z. Pannell J. Yang
Aug 2013	2 <sup>nd</sup> place, International ITE Traffic Bowl	International Institute of Transportation Engineers	B. Bartnik Z. Pannell J. Yang
Apr 2013	East Asia and Pacific Summer Institutes Fellowship	National Science Foundation	Z. Pannell
Apr 2013	East Asia and Pacific Summer Institutes Fellowship	National Science Foundation	S. Hargrove
Apr 2013	UTK's McClure Scholarship	The University of Tennessee, Knoxville	S. Hargrove
Apr 2013	Champion of SDITE Student Paper Competition	Southern District Institute of Transportation Engineers	T. Yoon
Aug 2013	William L. Moore Jr. Scholarship	Tennessee Section Institute of Transportation Engineers	A. Woodburn
Aug 2013	T. Darcy Sullivan Scholarship	Tennessee Section Institute of Transportation Engineers	S. Hargrove
Aug 2013	John R. Harper Memorial Scholarship	Tennessee Section Institute of Transportation Engineers	T. Yoon
Aug 2013	Dwight D. Eisenhower	Federal Highway Administration	S. Hargrove



Fellowship			
Aug 2013	1 <sup>st</sup> place, Student Paper Competition	Tennessee Section Institute of Transportation Engineers	H. Yang
Aug 2013	3 <sup>th</sup> place, Student Paper Competition	Tennessee Section Institute of Transportation Engineers	J. Liu
Aug 2013	Robert Stammer Student Chapter Award	Tennessee Section Institute of Transportation Engineers	UTK ITE Student Chapter
Aug 2013	2013 KSEA Poster Award 3 <sup>rd</sup> Place	Samsung Advanced Institute of Technology	T. Yoon
Aug 2013	2013 KSEA-KUSCO Graduate Scholarship	Korean-American Scientists and Engineers Association-The Korea-U.S. Science Cooperation Center	T. Yoon
Feb 2014	Travel Award	UT Knoxville Graduate Student Senate	J. Yang



### III. Community Outreach

Students at UT Knoxville's ITE chapter are committed to service in our communities. We engage youth in engineering outreach efforts, partner with other student groups, and participate in university committees to inspire interest in transportation engineering.

#### Engineers Day

Engineers Day is held each October at the University of Tennessee and is an opportunity for potential engineering students from high schools in the area to interact with current engineering students and learn about different fields of engineering. In 2013, nearly 1,200 students from 55 high schools attended the event. Each year, ITE has an exhibit to display current research initiatives and to provide general information on transportation engineering. Students were greeted by ITE members with a brief introduction to the field of transportation engineering as they arrive at the exhibit and were provided handouts about careers in transportation engineering. This year's ITE exhibit included four interactive displays and one



game. The four displays included: (1) an electric bicycle used in UT Knoxville's electric bicycle sharing project called "Cycle U Share," (2) allowing the high schoolers to use UT Knoxville's driving simulator for a short period of time, and (3) a real-time license plate recognition display which allowed students to try to 'outsmart' the technology by racing license plates down the hallways, (4) a display of several kinds of transportation simulation softwares. This year we also introduced a game to the exhibit area and offered \$20 awards to students who did the best. ITE members designed a riddle scavenger hunt. Students were provided four riddles (shown above) and asked to take a picture of the transportation infrastructure on the UT Knoxville campus. Those who solved the riddles received an award. Our exhibit was awarded third place out of all engineering organization exhibits at Engineers Day.

## Celebrate 175 years of Engineering at UTK

In 1838 the first engineering courses were taught at the University of Tennessee. That's nearly 175 years of teaching and creative discovery. The College of Engineering marked the anniversary with a series of events. UT's fastest-growing college, the College of Engineering has experienced significant expansion in enrollment and faculty and also in its national prominence. Since 2007, undergraduate enrollment has increased by 40 percent and doctoral enrollment by more than 60 percent. The college is now producing 20 percent more graduates than it did just five years ago.



The faculty has grown, and the college's research profile has as well. Research funding has grown by 74 percent in the past five years to \$56.8 million. Since 2009, the college faculty has added ten new prestigious Governor's Chairs, eight endowed fellowships and professorships, and one endowed chair. The college's national rankings have also been on an upward trajectory. Its undergraduate and graduate programs are ranked thirty-seventh overall among doctoral ranking public universities by U.S. News and World Report. It is a chance and challenge for our ITE students.

## Dedication of the John D. Tickle Engineering Building

The John D. Tickle Engineering Building houses the department of Civil and Environmental Engineering and the Department of Industrial and Systems Engineering. After the dedication ceremony the Tickle, UT administrators and honored guests cut the ribbon in front of the building and attendees then headed out to a reception on the building's fourth floor, along with open houses, demonstrations, and receptions in all of the engineering departments. Three displays were prepared to show our ITE study life to the visitors, including: (1) an electric bicycle used in UT Knoxville's electric bicycle sharing project called "Cycle U Share," (2) allowing the visitors to use UT Knoxville's driving simulator for a short period of time, and (3) a real-time license plate recognition display which allowed students to try to 'outsmart' the technology by racing license plates down the hallways.



## International Research and Field Study in China

During the summer of 2013, five ITE student members (Zane Pannell, Stephanie Hargrove, Taekwan Yoon, Hongtai Yang and Ziwen Ling) with associate professor Dr. Cherry went to China to complete a series of field study. They visited several Chinese cities, including Beijing and Kunming, to collect data for transportation research. Their research topics include car-sharing survey, traffic time, observance of driving restrictions, and factors of accident and so on.



## National Plug-in Day

On Sept. 28, ITE member Casey Langford attended National Plug-in Day event with UTK cycleUshare program.

National Plug-in Day is a nationwide celebration to heighten awareness of today's widespread availability of plug-in vehicles and highlight the benefits of all-electric and plug-in hybrid-electric cars, trucks, motorcycles, and more. They are fun to drive, are less expensive and more convenient to fuel than gasoline vehicles, are better for the environment, promote local jobs, and reduce our dependence on foreign oil. Events across the United States and other countries celebrated the third annual National Plug-in Day. Hundreds of local volunteers organized 98 gatherings that reached out to over 36,000 attendees. Nearly 3,000 electric vehicles owners showed their cars at local events to show that driving



electric is a viable alternative to being held hostage to gasoline prices. Local owners and car dealers together provided over 2,700 test rides or drives to attendees.

The fall version of journal “Fuels Fix” used UTK’s e-bike and e-car as a cover story.



## Campus Leadership

Our members also participate in other UT Knoxville events and organizations. Over the last year our members:

- Served on the UT Knoxville’s Traffic and Parking Authority Committee as a graduate student representative.
- Participated in the Alternative Transportation Working Group to promote a multi-modal campus community.
- Held leadership positions in the UT Knoxville Korean Student Association.
- Participated as a panel member with the Society of Women Engineers outreach effort at Hardin Valley STEM Academy to encourage young women to pursue engineering.
- Was a guest speaker as UT Knoxville’s American Society of Civil Engineers meeting to promote graduate studies.
- Managed an informational booth at the UTK Go Green Fair with leading environmental organizations on campus.

## IV. Social Events

We spend countless hours together every day in our office. The majority of the time we’re staring at our computer screens and rarely leave our desk. We rely on each other for our sanity and encouragement. Our chapter is our work family and the only family many of us have in Knoxville. Throughout the school year, we organize group dinners at our favorite local bars and restaurants. At least once a month we meet at Copper Cellar, Cool Beans, or Sunspot to unwind from our research and catch up on each other’s lives. We also try to coordinate outdoor activities to stay active, especially during the spring and summer semesters.

## Sand Volleyball

This year we joined the intramural league for Sand Volleyball at the University Recreation Center. We practiced and played every week for 1-4 hours, enjoying the sun and time away from computer screens. Few members were familiar with volleyball rules, so this was a fun, athletic activity that allowed us to learn together and have a few laughs.

We spent a summer day in 2013 with a marathon of sand volleyball and an authentic Sichuan Cuisine of Chinese at ITE member, Jun Liu's apartment. All of us enjoyed his delicious, spicy Chinese food.



## Graduation Party

One of our members, Bryan Bartnik, invited ITE to his home on the lake to celebrate his completion of the master's degree and for a final farewell to student life. ITE members partook in a bumper ball competition and enjoyed traditional northern food. This is the time together that we've come to appreciate the most. Being together and relaxed without school or research. We hope Bryan the most success and a smooth transition from student life to work life. He is greatly missed.



## Student Membership Roster

Feb 15, 2013 to Feb 10, 2014

NAME	DEGREE	GRADUATION	ITE INTL MEMBER?
DUA ABDELQADER	MS	Summer 2014	Yes
BRYAN BARTNIK	MS	Spring 2013	Yes
BENJAMIN BOWERS	PhD	Fall 2013	
ALLYSON FOSTER	BS	Fall 2012	
	MS	Spring 2014	
STEPHANIE HARGROVE	PhD	Fall 2014	Yes
HONGREN GONG	PhD	Summer 2017	
SHUGUANG JI	PhD	Summer 2013	
CASEY LANGFORD	PhD	Summer 2013	Yes
HYEONSUP LIM	PhD	Summer 2017	Yes
ZIWEN LING	PhD	Summer 2017	Yes
WEI LU	PhD	Summer 2013	
JUN LIU	PhD	Spring 2015	Yes
VIJAY NARAPSETTY	MBA	Fall 2012	
	PhD	Fall 2013	
ZANE PANNELL	MS	Summer 2013	Yes
WEIMING SONG	PhD	Summer 2017	
SHANNA VEILLEUX	MS	Spring 2013	Yes
LUIS VENEGAS	BS	Spring 2013	
RICK WHEELER	MBA/MS	Fall 2014	Yes
AMBER WOODBURN	MS	Summer 2013	Yes
HONGTAI YANG	PhD	Summer 2013	Yes
JIANJIANG (JJ) YANG	PhD	Spring 2015	Yes
TAEKWAN YOON	PhD	Spring 2014	
SHENG ZHAU	PhD	Spring 2014	
CHANGJUN ZHOU	PhD	Spring 2013	
TOTAL STUDENTS	24		