

Annual Report

Texas Southern University

Institute of Transportation Engineers Student Chapter

For the Year of April 1, 2011 to March 31, 2012

Report Submitted By:

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Section I: Executive Summary

Texas Southern University's Institute of Transportation Engineers Student Chapter recorded another successful and rewarding year. Our chapter continues to grow this year, and numbers of new members were recruited in our Chapter. We are always continually looking for new members. The aim of our chapter is to provide our students members the platform of outreaching and networking with transportation professionals working in the local industry and government. To accomplish this goal, we have hosted professional seminars and luncheons, kept regular monthly meetings, and attended professional conferences in the past year. By the assistants and help of our ITE advisors and officers, our ITE members have received several awards and scholarships, including the TexITE Scholarship, Dwight David Eisenhower Fellowships, NDTA Association for Global Logistics and Transportation, Helen M. Overly Memorial Scholarship (WTS), and Conference of Minority Transportation Officials (COMTO) scholarship. We are delighted to share our activities with you in the following report.

Section II: Student Chapter Summary

Chapter Officers as of March 31, 2010

| | |
|-----------------|--------------------|
| President: | Da Li |
| Vice President: | Fei Tao |
| Secretary: | Chelse Hoover |
| Treasurer: | Haixia Liu |
| Web Master: | Vernaldo Wright |
| Advisor: | Dr. Carol A. Lewis |
| Advisor: | Dr. Yi Qi |

TSU Chapter Membership as of March 31, 2012

| | |
|---|-----------------------|
| Number of student chapter members: | 61 |
| Number of student members of Institute: | 57 (100% eligibility) |
| Number of faculty ITE members: | 4 |

Transportation Planning and Management Program in TSU

At Texas Southern University, our Graduate Program for Transportation Planning and Management focuses on planning or operations careers, and the program has a strong foundation in traffic operations, transportation planning, public transportation and Intelligent Transportation Systems (ITS). Students may structure degree programs to build on these strengths. For those pursuing management careers, TSU's transportation program has strong foundations in transportation principles, economics and finance, and transportation policy and management. Through a rigorous graduate program of instruction, students can develop analytical and problem-solving, design, planning and systems analysis as well as appropriate research skills for use in public and private transportation-related agencies and organizations.

Graduate students and their faculty advisors form research partnerships based on their particular interest and needs of transportation industry. Students in transportation are provided with unique opportunities to work with transportation experts through the National Transportation Security Center of Excellence for Petrochemicals (NTSCOE - P), Innovative Transportation Research Institute (ITRI) of Texas Southern University, and Center for Transportation Training and Research (CTTR). The CTTR and ITRI provide programs or training with specialized internships and research exposure through on-going applied and empirical research and demonstration activities. Additionally, there are many opportunities to conduct research on technical papers in conjunction with the Texas Department of Transportation and other organizations. There are also many other internship opportunities available at other outlets such as METRO, HGAC and the City of Houston.

Section III: Professional Development

The ITE Chapter in TSU have worked hard to offer our members a series of professional development opportunities throughout the year. We participated in various discussions, lectures, events and conferences, including the annual Transportation Research Board (TRB) meeting, TexITE fall and spring meetings, SWUTC student conference, and public meeting of local government. We also kept the tradition of holding regular meetings and hosted several professional luncheons and seminars. These activities expanded students' knowledge of technical and political issues, provided insight into careers in transportation, as well as expanded the students' network of

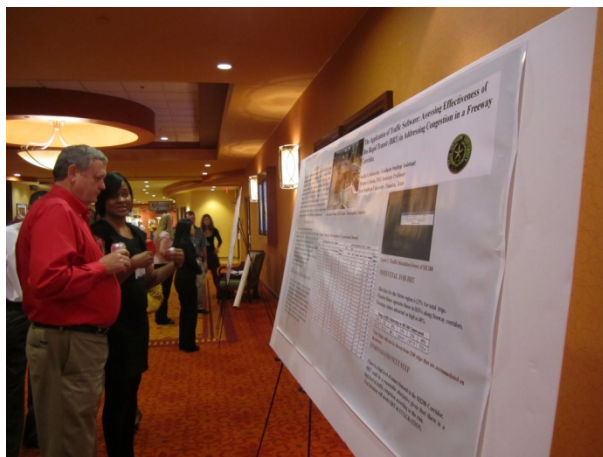
in the field of transportation.

Professional Luncheons and Seminars

Our goal this year was to improve our Distinguished Speakers series by attracting more student attendance and interesting topics and we did just that. These lectures were advertised campus wide through e-mail list-serves, class announcements, fliers, and TexITE web. This past year we were pleased to invite the following distinguished guests:

TexITE Spring Meeting at San Marcos - March 28-30, 2012

The ITE TSU Chapter sponsored our student members attending the TexITE Spring Meeting held in San Marcos between March 28 and 30, 2012. Student members of TSU attended the presentation sessions and the poster sessions. Two students presented their study in the poster sessions. The discussions and talking with Texas transportation professionals provide them ideas to improve their current studies and inspire them in their future studies. Students also learned the ongoing projects and research in Texas district. The networking with transportation experts from the TxDOT, cities, and industry expanded the students' knowledge about transportation technologies and issues and will be greatly helpful for their future careers.





Conference on Roundabout Planning, Design and Operation - March 1, 2012



On March 1, 2012, The ITE TSU Chapter hosted a conference on roundabout planning, design and operation with the help of Department of Transportation Studies of TSU and the Traffic Engineers, Inc. The conference has attracted more than 100 attendees. Transportation professionals from various transportation agencies, including federal and state transportation organizations, and locate transportation industries, along with the

students and faculty members in the College of Science and Technologies attended this meeting.

Dr. Yu, the Dean of COST and Ms. Rachel Carleton, the Chairman of Traffic Engineers, Inc., gave opening remarks at this conference. Dr. Qi, the interim chair of the transportation studies department preside this conference. Three international and local experts were invited to give presentations on the planning, design, and operation of roundabout, an innovative intersection design alternative to the traditional signalized intersection.

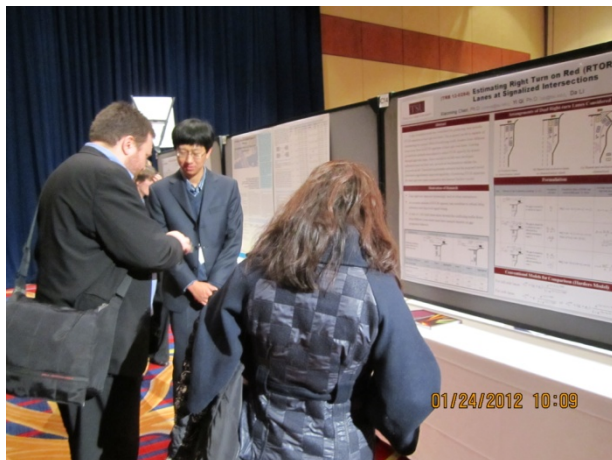
This conference greatly improved the visibility and reputations of the transportation program at TSU; so as to provide our students members more job opportunities. It will greatly benefit our students in



achieving success in their current studies, future job searches and career developments, and increasing their awareness of the issues, opportunities and challenges that transportation professionals are now facing.

Transportation Research Board (TRB) Conference

The majority of our members attended the 91th Annual Transportation Research Board Conference from January 22 – 26, 2012 held in Washington, D.C. It was many of our member's first large transportation conference and it was a very pleasant experience for them. Our chapter was very well represented throughout the conference; we had participants in research forums and 5 students presented their research findings in poster sessions. Three students were honored as the recipients of the Dwight David Eisenhower Fellowship in the TRB meeting. During the conference our chapter members also attended the ITE Distinguished Speaker Luncheon and the ITE Student Member Reception. This was a great opportunity for our members to connect with alumni and network with other students from across the country.



SWUTC Student Conference

The Southwest Region University Transportation Center (SWUTC) Student Conference was attended by members in our chapter this year in Winedale, Texas at the UT - Meadows Conference Center. Students were asked to work in teams to design a solution for various topics in transportation ranging from young drivers, economics, sustainability and livable communities, and safety. This gave our chapter members an opportunity to work with other students from the University of Texas at Austin and Texas A&M.

Distinguish Speakers Seminars

Project Management – Donald Glenn, Reynolds Smith and Hills – November 18, 2011



Mr. Donald Glenn is the vice president and a senior project manager from Reynolds Smith and Hills (RS & H), a facilities and infrastructure consulting firm whose client-centered program structure provides value-added solutions to clients around the world. Mr. Glenn has twenty-six years of transportation engineering experience and has extensive experience of project managing.

Mr. Glenn was invited to TSU to speak about the process of project management on November 18, 2011. In this presentation, the student members learned the process, method, and ideas of project management in the transportation industry.



Technology and Policy of High Speed Rail in the United States – Vernaldo Wright – October 20, 2011

Our chapter hosted a successful meeting on October 20, 2011. Dr. Carol Lewis who is served as the advisor of ITE TSU Chapter and ITE members at TSU attended this meeting. In the meeting, seven new students from Department of Transportation Studies were recruited. Mr. Vernaldo Wright, who is a student and research assistant in Transportation Program, was invited to give our members a presentation about a research project, which he is conducting under the supervision of Dr. Yi Qi.



This project is sponsored by Texas Department of Transportation, focusing on examining the use of existing public rights-of-way for high-speed rail. Mr. Wright introduced the high-speed rail system in the United States, the relative policies and regulations, and the state-of-practice technologies of high-speed rail. The presentation is very successful and members expressed their strong interest in it. The information they got from this presentation expended their knowledge about high-speed rail, and had inspire them for their own research.

Other Conferences

In addition to the professional conferences that were mentioned above, we also encourage our students to attend local conferences holding by transportation organizations and local government, including luncheons hosted by the Association of Global Logistics and Transportation (NDTA), and public meeting of (Houston-Galveston Area Council) HGAC and Metropolitan Transit Authority of Harris County (Houston Metro). Our members got scholarships from these organizations and learned lots of practices of the local transportation government.



Regular Monthly Meetings

The ITE TSU Chapter holds regular meeting between officers every month to discuss and plan professional development activities for the student members in TSU.



Section IV: Social Activities and Outreaching with Other Organizations

Texas Southern University ITE Student Chapter doesn't just study; we also like to have fun, too. We also see each other outside of the classroom and labs. We partner with other student organizations to expand student members' social lives.

TSU international week



Our Chapter encourages our international members to attend the international week of TSU. We sponsored a game night at our University's Game Room where we provided pizza and refreshments. Overall, the event was a success, we recruited 6 new members.

Section V: Chapter Coordination

Our ITE Chapter is active within Division 9 (TexITE). We attended many conferences and events and our students were able to present their research. Our chapter also communicates with other chapters.

Section VI: Members Awards/Publications

The members of our chapter are very distinguished as they have received numerous scholarships and awards, and many of our members have presented and published their research at national conferences and in reputable journals this past year.

Member Honors and Awards

This past year, ITE student members have been recognized for their academic and research excellence through a variety of awards and honors, including:

FHWA Dwight D. Eisenhower Transportation Fellowship

- TexITE Scholarship
- 5th Annual DHS University Summit Student Day Oral Presentation selection
- Transportation Research Forum Presentation
- The Association of Global Logistics and Transportation Scholarship
- Conference Of Minority Transportation Officials (COMTO) Scholarship
- TSU Research Week Prize

Publications and Presentations

Journal Papers:

1. Qi ,Y., L. Guo, L. Yu and H. Teng, “Estimation of Design Lengths of Left-turn Lanes”, ASCE's Journal of Transportation Engineering, accept for publication, 2012
2. Qi ,Y. and P. Yuan , “Pedestrian Safety Under Permissive Left-Turn Signal Control”, Accepted for Publication in Transportation Research Record: Journal of Transportation Research Board, Transportation Research Board of the National Academies, Washington, DC, Jan 2012.
3. Chen X. , Y. Qi , and D. Li , “Estimating Right Turn on Red Capacity for Dual Right-Turn Lanes at Signalized Intersections”, Accepted for Publication in Transportation Research Record: Journal of Transportation Research Board, Transportation Research Board of the National Academies, Washington, DC, Jan 2012.
4. Chen, X., L. Yu, G. Song, and C. Xian. Comparative Study of Emissions from Bus Rapid Transit and Conventional Bus System: A Case Study of Beijing. Accepted for Publication in Transportation Research Record: Journal of Transportation Research

Board, Transportation Research Board of the National Academies, Washington, DC, Jan 2012.

5. Guo, S, L. Yu, X. Chen, and Y. Zhang. Waiting Time Model for Passengers Transferring from Rail to Buses. *Journal of Transportation Planning and Technology*, Vol. 34, No. 8, 2011.

Conference Papers:

1. Shi, Q. and L. Yu. Evaluation of Mobile Source Greenhouse Gas Carbon Dioxide Emissions for Assessment of Traffic Management Strategies. 91st Transportation Research Board Annual Meeting CD-ROM, Transportation Research Board of the National Academies, Washington, DC, Jan 2012.
2. Lai, J., L. Yu, G. Song, P. Guo, and X. Chen. Development of City-specific Driving Cycles for Transit Buses Based-on VSP Distributions. 91st Transportation Research Board Annual Meeting CD-ROM, Transportation Research Board of the National Academies, Washington, DC, Jan 2012.
3. Xu, Y., L. Yu, G. Song, X. Liu, and Y. Wang. GA-Based Approach to Operating Mode Distributions via Link Average Speeds. 91st Transportation Research Board Annual Meeting CD-ROM, Transportation Research Board of the National Academies, Washington, DC, Jan 2012.
4. Tao, F. and L. Yu. Effects of Driving Behaviors on Vehicle Emissions: A Case Study in Houston, Texas. 91st Transportation Research Board Annual Meeting CD-ROM, Transportation Research Board of the National Academies, Washington, DC, Jan 2012.
5. Zhao, Q., L. Yu, and G. Song. Characteristics of VSP Distributions of Light-duty and Heavy-duty Vehicles on Freeway: A Case Study. 91st Transportation Research Board Annual Meeting CD-ROM, Transportation Research Board of the National Academies, Washington, DC, Jan 2012.
6. Zhao, H., L. Yu, N. Zhao, H. Wen, J. Guo, and L. Zhu. A Practical Approach to the Estimation of Time-varying OD Demands Incorporating FCD and RTMS Data. 91st Transportation Research Board Annual Meeting CD-ROM, Transportation Research Board of the National Academies, Washington, DC, Jan 2012.
7. Zhu, L., L. Yu, and H. Wen. Analysis of Temporal Characteristics of Traffic Congestion on Expressways Using Floating Car Data in Beijing. The 18th ITS World Congress CD-ROM, Orlando, Florida, October 16-20, 2011.
8. Zhao, N., L. Yu, and C. Li. Road Sectional Characteristic Cluster Model for Urban Expressways. ASCE Conference Proceedings, ICCTP2011: Towards Sustainable Transportation Systems Proceedings of the 11th International Conference of Chinese Transportation Professions, Nanjing, China, August 14-17, 2011.
9. Zhu, L., L. Yu, and X. Chen. GIS-Based Coding Approach and Algorithm for Urban Road Elements. ASCE Conference Proceedings, ICCTP2011: Towards Sustainable Transportation Systems Proceedings of the 11th International Conference of Chinese

Transportation Professions, Nanjing, China, August 14-17, 2011.

10. Qi ,Y. and D. Li , “When Should Right Turn on Red (RTOR) Be Used? Synthesis on the Safety of RTOR”, Presented and published in proceedings of the 91th Annual Meeting of Transportation Research Board , Washington, DC, January 22-26, 2012
11. Qi ,Y. , M. Zhang, Y. Wang and X. Chen , “Safety Performance of Flashing Yellow Arrow Signal Indication”, Presented and published in proceedings of the 91st Annual Meeting of Transportation Research Board , Washington, DC, January 22-26, 2012
12. Qi ,Y. , P. Yuan, X. Chen and M. Zhang , “Safety of Flashing Yellow Arrow Indication with Protected/Permissive Left-Turn (PPLT) Operation”, Presented and published in proceedings of the 91st Annual Meeting of Transportation Research Board , Washington, DC, January 22-26, 2012.
13. Qiao, F., Korzhova, P., and Yu, L. (2012). Testing Drivers' Understanding of Pricing Signs Using Driving Simulator. Accepted for presentation and publication in proceedings of the TRB Annual Meeting, Washington DC, January 22-26, 2012

Section VII: Member Roster

| Name | Graduate/ Undergraduate status | Elected Position | E-mail |
|--------------------|--------------------------------------|------------------|------------------------------|
| Albert Diaz | | | albertdiaz51@yahoo.com |
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| Brandon Mosley | Graduate | | aboutdabiz1@gmail.com |
| Bryan Broussard | | | jgcrot7@yahoo.com |
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| Chris Bowling | | | chris.bowling@firstgroup.com |
| Cierra Smith | | | mookie44_2009@yahoo.com |
| Clark Latissha | Graduate | | clarklv@tsu.edu |
| Da Li | Graduate | President | lida.dara@gmail.com |
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| Dedrick Calhoun | | | dedrick_calhoun@yahoo.com |
| Derek Idlebird | | | didlebird@gmail.com |
| Dexter Khan | | | dexterkhan@msn.com |
| Edward Quintanilla | | | edward35758@yahoo.com |
| Fei Tao | Graduate | Vice president | tetf86@gmail.com |

| Name | Graduate/ Undergraduate status | Elected Position | E-mail |
|-------------------------|--------------------------------------|------------------|-----------------------------|
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| Haixia Liu | Graduate | Treasurer | liuhaixia0901@gmail.com |
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| Marc Evans | | | evansmarc3@yahoo.com |
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| Osman Ahmed | Undergraduate | | Mr.ahmed@yahoo.com |
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| Saheed Bello | | | sahbell2002@yahoo.com |
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| Sarina Williams | | | sarinawms@yahoo.com |
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| Schineatha Rodriguez | | | rodrigsl@sbcglobal.net |
| Shain Eversley | Graduate | | shain_eversley@yahoo.com |
| Sharda Sonnier | | | sonnier84@gmail.com |
| Sheridan Coutain | | | sheridancoutain@yahoo.com |
| Tatiana Young | | | betlyfe@aol.com |

| Name | Graduate/ Undergraduate status | Elected Position | E-mail |
|-----------------|---|-------------------------|------------------------|
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| Vernaldo Wright | Graduate | Web master | nynne009@hotmail.com |
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| Zhenhe Pan | Graduate | | nedmund@yahoo.com |
| Ziyue Li | Graduate | | Lzy041607@hotmail.com |