



Leading The Pack
NC State
ITE Student Chapter

Annual Report

March 2003 – March 2004

PRESIDENT'S MESSAGE

As president of the student chapter this year, I have enjoyed watching our chapter grow, both in size and in accomplishments. This chapter has become a more closely knit group, providing a network of relationships that presently benefit members here in school and will become invaluable in future careers.

The most visible change to the chapter this year is the additional involvement we have experienced from undergraduates and international students. The increased number of undergraduates has benefited the chapter through their participation as well as allowing them to have more contact with people and practices in their future career paths. The contribution from the international students has added a worldwide transportation perspective to our local chapter.

I have seen the chapter contribute to our world through both research and service. Many members are involved with transportation research in a wide array of areas ranging from median ramifications to hurricane evacuation routes to neo-traditional development. Several members have provided presentations at research symposiums such as the meetings of the Transportation Research Board and the Traffic Engineering Council. The chapter has contributed to the appearance of our community with our Adopt-A-Highway litter pick-up program. In addition to this, the members have served the chapter itself by participating in traffic counts to raise money.

Although we have had excellent contributions on the part of the members, this chapter owes much to those who have supported us. Our chapter advisor, Dr. Billy Williams, has been a source of help and advice throughout the year. While adjusting to his new role as chapter advisor, he helped manage the business of the chapter, focused and directed our ideas, and supported the chapter in all our endeavors. We also owe thanks to the Southeastern Transportation Center and the Transportation Founders Fund for providing the financial support that allowed our increasingly large chapter to attend the Transportation Research Board meeting in January.

The growth of this chapter has had a positive effect on each of the members, and all of us are the richer for it. I have enjoyed the role I have played and look forward to seeing what the future holds for this chapter.

Daniel L. Carter

NCSU Student Chapter President 2003-2004

Please find the required chapter information below.

STUDENT CHAPTER OFFICERS

President: Daniel Carter
Vice President: Stacie Phillips
Secretary: Bastian Schroeder
Treasurer: Liza Runey

STUDENT CHAPTER MEMBERSHIP

Number of Student Chapter members: 35
Number of Student members of Institute: 25
Number of Students eligible to be a Student member of the Institute: 33
Number of faculty members who are current ITE members: 4

INFORMATION ON TRANSPORTATION ENGINEERING ENROLLMENT

North Carolina State University has 539 undergraduate students enrolled in the department of Civil, Construction, and Environmental Engineering
Our curriculum does not currently allow an undergraduate student to major or minor in Transportation.
Of the graduate students in Transportation, 21 are full time and 3 are part time.

NCSU ITE STUDENT CHAPTER				
MEMBER LIST 2003/2004				
Last Name	First Name	Program	Exp. Grad.	ITE Member
Baek	Jongdae	Ph.D.	08/07	Yes
Carter	Daniel	Masters	05/04	Yes
Chae	KoSok	Masters	08/04	Yes
Chen	Chun	Ph.D.	05/06	
Covington	Casey	Masters	12/03	Yes
Green	Julie	Masters	05/04	Yes
Guo	Jianhua	Ph.D.	05/05	
Han	Yang	Ph.D.	05/07	Yes
Havel	Jason	Masters	05/04	Yes
Hefner	Jonathan	Undergrad.	05/04	Yes
Horner	John	Masters	05/06	
Huang	Jin	Masters	05/07	
Kadayam	Vijay	Masters	05/06	Yes
Keilson	David	Masters	05/05	Yes
Kollipara	Prasad	Masters	08/05	Yes
Letchworth	Will	Masters	05/04	Yes
Lin	Jiong	Masters	12/04	
Littlefield	Jeffrey	Undergrad.	05/04	Yes
Littlefield	Michael	Undergrad.	12/04	Yes
Marley	Misty	Undergrad.	05/05	
McCall	Jeremy	Undergrad.	05/05	Yes
Menninger	Nicole	Undergrad.	12/04	
Moon	Jae-Pil	Ph.D.	05/07	Yes
Mullins	Ryan	Undergrad.	05/04	Yes
Phillips	Stacie	Masters	05/04	Yes
Rajit	Ramkumar	Masters	05/05	Yes
Runey	Elizabeth ('Liza')	Undergrad.	05/04	Yes
Schroeder	Bastian	Undergrad.	05/04	Yes
Shekhar	Shashank	Masters	05/04	
Shidhore	Aniruddha	grad	05/05	Yes
Small	Chris	Undergrad.	05/04	Yes
Tagliaferri	Anthony ('Tony')	grad	05/05	Yes
Wan	Baohong	Ph.D.	08/04	
Wang	Heng	Masters	05/05	
Weller	Jeff	Undergrad.	12/04	Yes

MONTHLY MEETINGS

The chapter holds monthly meetings on the first Friday of every month that classes are in session. In the casual atmosphere of the lunchtime hour, attendees enjoy pizza provided by the chapter and a presentation by professionals speaking on their area of work or research in transportation. Meetings are publicized by announcements in graduate and undergraduate classes, by flyers posted throughout the civil engineering building, and through our comprehensive email list of present and past members. The following paragraphs provide a summary of the meetings held this past year.

MARCH 2003

Barry Shapiro, a safety engineer with the Rail Division of the North Carolina Department of Transportation, spoke at our March meeting on the NCDOT Sealed Railroad Corridor program. A major safety concern of the rail division has been “gate runners” – those drivers who attempt to circumvent the lowered railroad crossing gate arms. Mr. Shapiro presented several measures being implemented to reduce the number of collisions caused by these illegal maneuvers.

APRIL 2003

Instead of a guest presentation at our April meeting, we met as a chapter to discuss several items for the remaining school year. The officers gathered good input from the members on issues such as future monthly meetings, traffic counts for fund raisers, the end-of-year picnic, and other issues relating to chapter life.

MAY 2003

Jennifer Brandenburg came to us from the NCDOT State Road Maintenance Unit. She spoke on transportation security in North Carolina. Due to the changing climate of today’s world,

the North Carolina Department of Transportation has adapted to new policies and procedures to ensure the safety and security of travelers on its roads. Ms. Brandenburg presented several areas in which the NCDOT has already implemented security measures and other areas in which security measures will be considered.

SEPTEMBER 2003

The chapter used the first ITE meeting of the school year as a time to involve new people, organize the chapter, and plan the coming year. The newly-instated president Daniel Carter made a short presentation on the activities of the student chapter and the larger sections of ITE for the benefit of those unfamiliar with the organization. The chapter held the traditional election of vice president, secretary, and treasurer. We were pleased to welcome Stacie Phillips, Bastian Schroeder, and Liza Runey to serve as chapter officers. The chapter also used the time to gather input from all those present on possible chapter events and meeting topics.

OCTOBER 2003

Jim Dunlop, Deborah Jokisch, and David Spencer from the NCDOT Congestion Management Section (CMS) gave the chapter a presentation on the jobs and responsibilities of the CMS as well as an overview of its divisions. The topics covered included high congestion areas of the Triangle region and impacts of Hurricane Isabel. Chapter members were introduced to several current congestion problems and alternative methods for solutions.

NOVEMBER 2003

Dr. Arun Chatterjee, a professor at the University of Tennessee, presented his research into Urban Freight Planning. He spoke on the role of truck travel forecasting in metropolitan planning organizations. Dr. Chatterjee presented several ideas for both planning and traffic engineering opportunities in accommodating truck traffic. Such opportunities include off-street loading docks in a downtown area and route improvements to allow for large trucks.

DECEMBER 2003

The presentation at the December meeting was especially relevant to NCSU students. Slade McCalip, director of Planning and Operations in the NCSU Transportation Department, presented the campus master transportation plan. He spoke on the two phases of the process, parking management and transportation management, and the department's desire for campus community input throughout the process. Upcoming projects involve person-trip generation rates for campus buildings and assistance for non-motorized travelers. The chapter was also treated to a demonstration of the CORSIM model of the campus, presented by Casey Covington, a student member working with the NCSU Transportation Department.

FEBRUARY 2004

Teresa Damiano, president of the North Carolina Airports Association and marketing director for Raleigh-Durham Airport, presented at the February meeting. She spoke on the major role of civil engineering at the RDU airport, covering areas such as construction, soil evaluation, and environmental impact analysis. Ms. Damiano discussed current work at RDU on Terminal C



and the new parking garage. Together with Dr. John Stone, Ms. Damiano took the opportunity to preview the airport design class offered next semester as well as a scholarship in honor of a former employee of the NCDOT Division of Aviation.

PROFESSIONAL MEETINGS

Throughout the year, the NCSU student chapter attempts to give its members many opportunities for professional development through several professional meetings. Over the past year we participated in several activities, which are listed in the following sections.

NCSITE TRAFFIC ENGINEERING COUNCIL MEETING

April 2003

Chapel Hill, North Carolina

The Traffic Engineering Council is a NCSITE sponsored event focusing on Triangle transportation issues. Ten students from the NC State student chapter attended this event. Three NC State students, Changseok Baek, Julie Green, and John Woodlief, presented such research topics as the level of service of shared use paths and customer satisfaction in the Winston-Salem Transit Authority's paratransit system. Local professionals had many positive comments about the students' presentations and the questions that they posed helped the student prepare for future presentations.

NCSITE ANNUAL MEETING

November 2003

McKimmon Center, Raleigh

On November 20, eleven students visited the McKimmon Center to attend the annual meeting of the North Carolina Section of ITE. Several undergraduates joined the many graduate students and found the meetings both interesting and professionally beneficial.

After viewing many informative sessions ranging from roundabout issues and context-sensitive design to the new MUTCD standards, the students attended the annual banquet and awards ceremony. At this ceremony, we were honored and pleased to have three students, Stacie

Phillips, Bastian Schroeder, and Liza Runey, receive scholarships for outstanding graduate student, outstanding NCSU student chapter member, and outstanding student chapter member, respectively. In all, this was an excellent event, and we are grateful to the North Carolina Section of ITE for both assisting the student chapter with the registration fees and honoring us with these awards.

83ND TRANSPORTATION RESEARCH BOARD ANNUAL MEETING

January 11-15, 2004

Washington D.C.

The Transportation Research Board Annual Meeting remains the pinnacle event for the NCSU student chapter. We recognize the importance and value of attending this large gathering of international transportation experts as they exhibit a broad range of research topics for the sharing of knowledge, results, and solutions. TRB provides an open forum for debate and collaborations between agencies as well as individuals to inspire and support new transportation research projects.

A strong commitment from our student members was reflected in the attendance, as nineteen chapter members participated in some capacity during the weeklong conference. Members attended various sessions based on their individual interest and/or research obligations. Some of the highlights of our trip, not including the many informative sessions, are listed below.

Saturday, Jan. 10

- Arrival and confirmation of TRB registration
- Group dinner provided by the NCSU Student Chapter

Sunday, Jan. 11

- Students toured the sights of Washington, D.C. individually and in groups.

- A large group of the students visited the new Air and Space Museum at Dulles International Airport.

Monday, Jan. 12

- Almost the entire student entourage from NCSU and other students from affiliate STC universities visited the new transportation exhibit at the American History Museum. We received a guided tour of this informative exhibit and were able to interact with students from several other universities.



- Following the visit to the American History Museum, the student chapter joined other STC students for a luncheon at Union Station. The event provided a casual setting for members to congregate and socialize with their STC counterparts.
- The student chapter was treated to dinner at the ITE headquarters in Washington DC along with numerous other student chapters.

Tuesday, Jan. 13

- After a full day of attending sessions, the student chapter departed for home.

Special thanks to the Transportation Founders Fund and the Southeastern Transportation Center for assisting us with our transportation, registration, and lodging costs.

SERVICE PROJECTS AND SOCIAL EVENTS

Besides attending several group meetings and professional conferences, the chapter provides service opportunities and social events for its members. Through service we gather to improve our community, and through social events we form relationships with each other and learn each other's interests. All of these events have been good opportunities to foster a more closely knit organization.

GOLF TOURNAMENT AND END-OF-YEAR PICNIC

On Saturday May 3, 2003, a golf tournament and an end-of-year picnic were held to celebrate the success of the 2002-2003 school year. Approximately ten members of ITE gathered at Knights Play Golf Center in Apex. Five teams of two played 18 holes of golf in "best ball" style. The two winners received a NCSU Civil Engineering polo shirt and the two losers received a NCSU Golf Club team T-shirt.

After the golf tournament, ITE members, family members, and significant others attended an end-of-year picnic at Glen Eden Pilot Park in Raleigh. The students and faculty enjoyed hotdogs, fried turkey and a pick-up football game on a beautiful May afternoon.

ADOPT-A-HIGHWAY

To branch out from engineering and turn to the aesthetic concerns of transportation, the chapter participates in the Adopt-A-Highway program. Once each semester, ITE members pick up litter and other debris along Jones Franklin Road in Raleigh. The stretch that we are responsible for is approximately two miles long and runs east from I-440 to Walnut Street. On Saturday morning, September 13, a group of chapter members met in a nearby parking lot to start the morning off with doughnuts and orange juice before gearing up to clean Jones Franklin Road.

The chapter distributed safety vests, gloves, and orange trash bags to each participant. Small groups were assigned sections of the roadway to clean. Due to the large number of ITE students who helped with the trash pick up and their hard work, our stretch of Jones Franklin Road was cleaned in less than two hours. The next Saturday morning trash pick-up will be held in April of this year.



OYSTER ROAST TAILGATE

For the last home NCSU football game against Maryland, the NCSU student chapter of ITE gathered to support the Wolfpack. Chapter members, friends, and family came to eat oysters along with snacks, deserts, and beverages. There was a great turnout from ITE members for this event and it provided a great way for the members to meet in an informal setting to mingle with each other and cheer on the Wolfpack.

FUNWORKS

On November 12, 2003, the NCSU student chapter of ITE sponsored its members in an adventure to FunWorks, a local family fun and entertainment center. The chapter purchased three-hour passes for members to ride go-karts and play laser tag. This was a great way for the members to get to know each other and have fun outside of school. There was such a strong response from the members who attended this event that another trip to FunWorks is planned for March.



CHRISTMAS PARTY

The chapter had an exciting night of playing Family Feud and eating diverse national and international foods at the annual Christmas party. The party was graciously hosted at the home of Billy Williams, our faculty advisor, on December 5, 2003. Students, faculty, and loved ones gathered together to celebrate a successful fall 2003 semester and to celebrate the accomplishment of those ITE members graduating. The main dish was provided and each person brought their favorite appetizer, casserole, or dessert to share with the group. It was a new opportunity for many members to try various foods from different countries around the world. After dinner, everyone participated in the traditional contest of transportation trivia. In this year's theme of Family Feud, the group split into two teams and competed on random trivia questions related to transportation topics, posed by our returning game show host and last year's chapter advisor, Dr. Joseph Hummer.

FUTURE PLANS

In efforts to continue the success of the ITE student chapter at North Carolina State University, the chapter has identified several areas in which to concentrate its efforts in the future. The following sections give the preliminary plans for these areas.

UNDERGRADUATE INVOLVEMENT

The NCSU ITE student chapter has been very successful in getting undergraduate students interested in the transportation profession and involved in chapter activities. Currently about one-third of the student chapter is made up of undergraduates. In the coming year, the chapter plans to target students in introductory transportation classes to get more people involved in chapter activities at an early stage in their collegiate career. This past year, two of the chapter's officers were undergraduates in their senior year, which greatly facilitated communication with other juniors and seniors in Civil Engineering. In years to come, the chapter desires to continue the trend of having undergraduate interests and opinions represented in chapter leadership.

TRANSPORTATION CAREER FAIR

The chapter attempted to organize a career fair in the spring semester targeting specifically those students in transportation related fields. The chapter had intended to attract public transportation agencies and private companies to appear at the event as well as students from all schools in the region who are involved with the transportation profession. Unfortunately the plan had to be postponed because of logistical difficulties. Given more time, the chapter anticipates holding a Transportation Career Fair in spring 2005.

STUDENT RESUME BOOK

Because a transportation career fair proved to be more difficult than anticipated, the NCSU student chapter decided to put together a Student Resume Book for interested chapter members to fill the gap between now and the 2005 Career Fair. The Student Resume Book will be a compilation of student resumes and personal statements which can then be passed on to interested companies. The Resume Book would have different sections for undergraduate and graduate students, as well as those seeking internships, part-time jobs, or full-time positions. The chapter anticipates the completion of the Resume Book in the next month to allow plenty of time until spring graduation.

FIELD TRIP TO RALEIGH-DURHAM INTERNATIONAL AIRPORT

The ITE student chapter at NCSU has maintained a good relationship over the years with representatives of the airport authority at RDU International Airport. The RDU marketing director spoke at a spring meeting and the chapter has organized field trips to the airport in the past. The chapter intends to have another field trip in April 2004 to allow new members to learn about the facility and to provide an orientation for the bi-annual "Airport Design" class offered next fall.

STUDENT CHAPTER WEBPAGE

The NCSU student chapter has recently formed a webpage committee intending to update and expand the chapter webpage by the end of March 2004. Besides updated contact information and lists of chapter activities, the webpage will include links to transportation news and other websites related to the field. Other ideas include an online discussion board and an online version of the Student Resume Book to facilitate access for interested companies.

TRAFFIC ENGINEERING COUNCIL

The student chapter is currently in the process of planning presentations for the 2004 NCSITE “Traffic Engineering Council” to be held in April 2004 at North Carolina A&T University. The NCSU chapter plans to have between five and six students present the research projects they have been involved with. Consistent with the effort to promote undergraduate involvement, the chapter anticipates at least two of the presenters to be in their junior or senior years.

TRAFFIC COUNTS

Over the years, the student chapter has worked with the NCSU Transportation Department to have members participate in traffic counts on campus as a fundraising event. In the upcoming months, the chapter plans to participate in a license plate study on campus for the Transportation Department in order to generate income for the chapter.

SOCIAL EVENTS

Building on the success of last semester’s go-kart event, the chapter has planned another such outing for the spring semester. The chapter also anticipates another end-of-year picnic. While last semester’s Christmas party had an international theme to which students brought food from their native countries, the chapter has discussed the idea of a traditional “Southern” picnic to share North Carolina culture with visiting students.

CONCLUSION

This past year has been a rewarding time for the NCSU student chapter. We have experienced growth, both in size and in accomplishments. Returning members took advantage of classes, social events, and service projects to develop a sense of camaraderie with new student members. The growth of the international representation in our chapter has given us a worldwide perspective on the transportation field. Interaction with the professional world at events such as the NCSITE and TRB annual meetings gives student members a preview of their future careers and a chance to encounter potential coworkers and employers. Every member has benefited from the exposure to current research, past accomplishments, and future possibilities in the field of transportation engineering. We look forward with excitement to the future of the NC State student chapter.