

**MARQUETTE UNIVERSITY ITE
STUDENT CHAPTER**

2004 ANNUAL REPORT OF ACTIVITIES

MILWAUKEE, WISCONSIN

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Overview

2004 brought an almost entirely new group of students to the Marquette University Student Chapter of the Institute for Transportation Engineers. With many of the past members graduating and several other members involved in cooperative education programs, new students were able to establish themselves as leaders in the organization.

The success of the chapter has manifested itself in several areas this year. First, interaction with other civil engineering organizations has proven to be very beneficial in illuminating just how diverse the transportation industry is. Second, with many new members showing interest in transportation construction and materials, the group has been able to get involved in some new areas of transportation engineering. Finally, the enthusiasm of the group has helped to create a wonderful environment to learn and discuss important issues within the industry.

This year's advisor was Dr. Alexander Drakopoulos, who is a national member of ITE. Dr. Drakopoulos has returned after a one-year sabbatical and brought lots of energy and experience to our group. Dr. Drakopoulos is very well connected in the local industry, which has helped us to interact closely with leaders in the transportation engineering community. With the encouragement of Dr. Drakopoulos our group has been able to discover different areas of the industry and allow a wider variety of students to become involved.

Ms. Stephanie Olsson, President of Traffic Analysis and Design, Inc., served as the **chapter's liaison with the professional ITE Wisconsin chapter**. Ms. Olsson is a Marquette University graduate, with a long involvement in ITE activities.

The **Chapter's web page** is:

http://www.eng.mu.edu/~drakopoa/ite/MU_chapter/chapter.htm

A **calendar of Student Chapter activities** can be found at:

<http://www.eng.mu.edu/~drakopoa/ite/>

The web pages provide links to listings of Executive Committee members, names and work contact information of graduates, and other useful information for student members.

Student Chapter Officers

The student chapter officers for this year were as follows:

Office	Fall Semester	Spring Semester
President	Brian Porter	Brian Porter
Vice-President	Erika Zoeller	Kendra Hansen
Secretary	Melissa Gerum	Melissa Gerum
Treasurer	Jodi Marsh	Jodi Marsh

Each office member has been imperative to the success of the chapter this year and each member has evolved into a more effective leader. With Mr. Porter and Ms. Hansen moving on to work in the industry at the end of the semester, there will be more opportunity for individuals to attain these leadership roles. Fortunately though, Ms. Zoeller, Ms. Gerum, and Ms. Marsh all have another year to build on the foundation that has been established.

Student Chapter Membership & Transportation Faculty

The Marquette University student chapter of ITE currently has 9 members, all of which are national members of ITE. Currently there are four faculty members at Marquette involved in Transportation. Dr. James Crovetti specializes in Pavement materials/design. The remaining three faculty members specialize in Traffic and Highway Design and are ITE national members. One is a full time professor (Dr. Drakopoulos) and two are adjunct professors (Mr. Kuemmel and Mr. Sonntag), working in the transportation industry and providing assistance to the ITE student chapter at Marquette University.

Transportation Engineering Enrollment

There are currently 155 full-time and nine part-time undergraduate students enrolled in Marquette's Civil Engineering department. Marquette's curriculum offers students a diverse background in civil engineering issues including construction and public works management, environmental and water resources, structures and transportation. The curriculum does not allow students to minor or major in transportation but rather gives those enrolled in the department the opportunity to specialize in one of the above areas of interest. There are currently twelve graduate students involved in transportation topics with three of these students enrolling full time and the remaining nine of these students enrolling part time.

Summary of Activities for Fall of 2003

The fall of 2003 proved to be a period of rejuvenation for the Marquette Chapter. With many of the past student members graduated or unavailable to commit their time, new students had to rise to the leadership roles. With the new members came an abundance of new topics.

Marquette University ITE Student Chapter Elections - September 11, 2003

To kick off the new school year, the chapter hosted a meeting for anyone interested in participating in ITE and anyone who might have an interest in being elected as an executive officer. Elections were held and a new executive board was chosen to represent Marquette ITE for the fall semester.

Get Involved in Marquette's Student Chapter of ITE - September 25, 2003

With the new executive board excited to initiate the student chapter, a meeting was held to discuss chapter goals, possible technical presentations, tours and other events that could be planned for the upcoming semester. Many of the desired goals were accomplished throughout the semester, which helped to bring up morale for those underclassmen that want to become leaders at Marquette and in the transportation industry.

Roundabouts in Wisconsin – October 9, 2003

Patrick Hawley, P.E., P.T.O.E., and ITE member, came to Marquette to speak to ITE about roundabouts and their increasing importance in the Wisconsin Department of Transportation system. Mr. Hawley has helped to form a committee for the Department of Transportation that will create statewide standards on roundabout planning and design. He is the past president of the Wisconsin section of ITE and is currently a national member of ITE. Mr. Hawley has been instrumental to the growth in Marquette's transportation department as he has been involved with the instruction of an Introduction to Transportation class that all Civil Engineers take before graduating at Marquette University.

Freeway Systems Operational Assessment – October 23, 2003

John Shaw, Transportation Data and Analysis Supervisor for the Wisconsin DOT, came to Marquette to speak to ITE about a project the Wisconsin Department of Transportation has been working on for the past five years. The Freeway Systems Operational Assessment (FSOA) for the freeway system in Southeastern Wisconsin has involved millions of dollars and thousands of hours. Mr. Shaw, who is currently the FSOA project manager, gave a technical presentation on the basis of the project and the many different roles the project has taken on since the design of the Marquette Interchange has begun.

Rubblizing Concrete Pavement – October 28, 2003

Marquette's ITE student chapter held a joint meeting with Marquette's ASCE student chapter that involved a technical presentation discussing rubblizing concrete pavements and an innovative machine Antigo Construction has patented to perform the operation. It was great to get ASCE involved in transportation related issues in order to establish new membership for ITE.

Summary of Activities for Spring of 2004

With increased support from student officers, the chapter was able to delve into new activities immediately after the semester started. Due to time constraints and schedule conflicts in the previous semester, several topics of interest to the students had been set aside. These topics were able to be incorporated into the spring semester, and students proved to be interested and excited to discuss and learn about them.

Spring Kick Off Meeting and Elections - February 3, 2004

For the new semester, the student chapter held a meeting open to anyone interested in participating in ITE as an executive officer. The agenda consisted of executive board elections and further brainstorming for the goals that we would hope to accomplish for the rest of the school year.

Pavement Management 101 – February 24, 2004

Dr. James Crovetti gave a technical presentation on pavement management systems and the advantages of several pavement rehabilitation techniques. Dr. Crovetti is currently an Associate Professor at Marquette University and is the faculty advisor for the American Society of Civil Engineers Student Chapter at Marquette. Dr. Crovetti has been involved in research involving transportation materials and non-destructive pavement testing for more than 15 years.

Institute of Transportation Engineers Wisconsin Section Meeting – March 4, 2004

With the success of last year's student recognition meeting hosted here at Marquette, students were enthused about this year's event. The University of Wisconsin at Milwaukee hosted the event that involved an overview of university transportation activities presented by Sam Jacoby and Ed Beimborn of the University of Wisconsin at Milwaukee. Aside from the transportation studies overview, Dr. Alan Horowitz from the University of Wisconsin at Milwaukee spoke to the group about "Smart Work Zones: Adding Intelligence to Road Construction." The event was a great success and the students were able to come away with some new knowledge, as were the ITE professional members.

Challenges in the Design of the Marquette Interchange – March 18, 2004

The Milwaukee Transportation Partners gave a technical presentation on the challenges that evolved in the design of the Marquette Interchange. With the interchange being the

largest public project Wisconsin has ever been involved in, the student chapter of ITE was able to see first hand the amount of planning and design efforts it takes for a project named by FHWA as one of 10 nation-wide “super projects”. Mike Paddock, P.E., Dave Nguyen, P.E., Andrea Guptail and Hans Higdon (the latter three former Marquette University students and members of ITE), each presented their individual participation and further explained what has been essential in making the design of the Marquette Interchange, a success. The technical presentation took place at the temporary office of the Milwaukee Transportation Partners located in the Amtrak building in Milwaukee.

Summary of Planned Activities for Spring of 2004

Archeology and Transportation - April 6, 2004

The student chapter has invited Dr. Overstreet and Ms. Stathas to Marquette University to give a technical presentation on the impacts of archeological research within transportation projects in Wisconsin. Dr. Overstreet is currently the Executive Director of the Center for Archeological Research at Marquette and Ms. Stathas currently resides as the Archeological Program Manager for the Wisconsin Department of Transportation. The presentation will focus on the current research involved on the State Trunk Highway 57 corridor reconstruction located in Door County, Wisconsin. We are expecting an excellent turnout for the presentation and hoping to get a wide array of students interested in transportation issues in Wisconsin.

Breakfast Social April 15, 2004

Meet for breakfast at a local diner for a time to socialize. Organized by ITE and open for all students to join.

Payne & Dolan Asphalt Plant Tour – April 16, 2004

The ITE student chapter is currently planning a tour of the Payne & Dolan asphalt plant in Waukesha, Wisconsin. With several of Marquette’s current students and graduates employed with Payne & Dolan, there is already a large knowledge base in asphalt roadway construction and research. Several students have shown interest in transportation materials so if time allows, the tour should be a great success.

Marquette ITE Student Chapter Attendance Summary

Date	Event	Undergraduates	Graduates	Faculty	Other	Total
9/11/03	Elections	4	0	2	0	6
9/25/03	Chapter Meeting	9	1	1	0	11
10/9/03	Technical Presentation	13	1	2	1	17
10/23/03	Technical Presentation	7	1	1	1	10
10/28/03	Technical Presentation	18	1	0	2	21
2/3/04	Elections and Chapter Meeting	9	1	2	0	12
2/24/04	Technical Presentation	10	1	2	0	13
3/4/04	ITE WI Section Meeting	5	1	1	0	7
3/18/04	Technical Presentation/Tour	10	1	2	4	17

Marquette ITE Student Chapter 2003-2004 Membership

Name	Degree Expected	Graduation Date
Melissa Gerum	B.S.C.E.	May, 2005
Kendra Hansen	B.S.C.E.	May, 2004
Nicholas Hornyak	M.S.C.E.	May, 2006
Jodi Marsh	B.S.C.E.	May, 2005
Nancy Mutsch	B.S.C.E.	May, 2005
Karen Palmowski	B.S.C.E.	May, 2004
Brian Porter	B.S.C.E.	May, 2004
Sharad Uprety	M.S.C.E.	December, 2005
Erika Zoller	B.S.C.E.	May, 2005



Roundabout presentation: **Top:** Student audience. **Bottom** L to R: Stephanie Olsson, chapter liaison, Jodi Marsh Treasurer, Erika Zoller VP, Brian Porter, President, Melissa Gerum Secretary, Pat Hawley, presenter.