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## Urban Transportation Center: review of 2006/07

Interim Director: Piyushimita (Vonu) Thakuriah

### 1. Introduction and highlights

The 2006/07 year closed with significant achievements by faculty, students and staff in the Urban Transportation Center (UTC). We set very high goals for ourselves and exceeded many of them. UTC research assistants continued to be a core part of the center. Faculty, staff and students are looking forward to the new academic year with renewed vigor to meet our research, teaching, technical assistance and service goals.

Our highly valued faculty and staff continued to make significant contributions to all aspects of the center. Every member played a significant role towards one or more aspects of the center's activities. Faculty and staff are listed in Appendix 1. In particular, the contributions of our core staff, Vanessa Smith, Karin Allen, Silvia Becerra, Lise Dirks and George Yanos and our student undergraduate office assistants, Jacob Bauer, Lisa Maggio and Bianca Vintila, has been particularly outstanding in every way. The center owes them all a deep thanks.

In terms of traditional academic measures, it has been a very productive year. UTC faculty, staff, and students:

- Published or have scheduled for publication 14 papers in refereed journals (14 in 2005/06, 20 in 2004/05, 26 in 2003/04). The list of UTC publications is given in Appendix 6A.
- Published or otherwise presented 26 papers in refereed conference proceedings (40 in 2005/06, 32 in 2004/05, 34 in 2003/04). The list of UTC presentations are given in Appendix 6B.
- Graduated five masters students (6 in 2005/06, 10 in 2004/05, 17 in 2003/04) and 3 PhD.'s.
- Awards given to six students (five in 2005/06, seven in 2004/05, six in 2003/04)

We received continued support from the Illinois Department of Transportation for the Metropolitan Support Initiative (METSI), the Federal Highway Administration grant, the Federal Transit Administration, Community Transportation Association of America and the Chicago Transit Authority collaboration project. We completed our first year involvement with the NSF Integrative Graduate Education and Research Traineeship (IGERT) doctoral program on Computational Transportation Science (CTS).

The center co-hosted an annual symposium with UIC's Center for Supply Chain Management and Logistics, titled "Making the Chicago Region More Competitive in the Global Supply Chain."

We began the academic year with a student orientation and luncheon. We again hosted a well-attended reception for alumni at the Transportation Research Board (TRB) Annual Meeting in Washington, DC.

Students in the center continued with two important activities initiated in the 2004/05 school year: the PhD Forum and Diversity Lunches. These initiatives continue to be well-attended and receive favorable comments from participants.

Our advisory board again experienced some turnover. We welcomed Marisol Simon, Regional Administrator for the Federal Transit Administration, and Les Nunes, Acting Bureau Chief of the Illinois Department of Transportation.

## **2. Aims of the unit overall**

### **Mission**

The Urban Transportation Center (UTC) at the University of Illinois at Chicago seeks to understand and improve urban transportation through the creation, application and dissemination of transportation knowledge while also making use of the Chicago metropolitan area's great transportation assets and infrastructure.

### **Vision**

The UTC will be an internationally recognized center for research, education and training in planning, analyzing and modeling surface mobility. The overall focus of the UTC will be on traditional scholarly outputs such as to publish in peer-reviewed journals, disseminate our research results in high-profile national and international conferences, compete in nationally-prestigious and peer-reviewed grant competitions and educate and train graduate students. With a stable funding base and a stimulating collaborative interdisciplinary environment, the center is a focal point for researchers in various disciplines interested in intellectually challenging transportation issues and problems. The center also seeks to provide technical assistance and support to federal, state and local agencies.

## **3. Targets for 2006/07**

Goals and targets for 2006/07 were as follows:

- Increase the number of papers submitted for review to internationally recognized journals from the current output of 14 papers per year to 25.  
CUPPA 2010 Goal 1: Intellectual contributions
- Increase the number of national and international conference presentations to greatly increase the center's visibility.  
CUPPA 2010 Goal 1: Intellectual contributions
- Develop and implement targeted scholarly and grants goals for each staff member, for the purpose of performance evaluation.  
CUPPA 2010 Goal 1: Intellectual contributions

- Search for and hire a new permanent Director of UTC.  
CUPPA 2010 Goal: Consistent with all CUPPA 2010 Goals.
- Continue to streamline prototype transparent accounting practices system in place Spring 2006, testing and feedback from users Spring and Summer 2006  
CUPPA 2010 Goal 11: Efficient allocation of current resources
- Develop collaborative relationships with School of Planning and Architecture in Delhi, India and explore relationships to be developed with universities in the Dominican Republic.  
CUPPA 2010 Goal 6: External partnerships.
- Establish computing resources committee by end of 2005; develop preliminary plan by Summer 2006  
CUPPA 2010 Goal 11: Efficient allocation of resources, and Goal 13: Technology
- Win grants with a value in excess of \$1,000,000 during 2005/06  
CUPPA 2010 Goal 1: Intellectual contributions, and Goal 10: Entrepreneurial and Development Activity
- New promotional materials for UTC drafted by Spring 2006  
CUPPA 2010 Goal 10: Entrepreneurial and development activity
- Develop and refine website content and appearance by Summer 2006  
CUPPA 2010 Goal 10: Entrepreneurial and development activity
- Announce Krambles scholarship in summer and fall 2006, award scholarship in Fall 2006.  
CUPPA 2010 Goal 2: Preparing students, and Goal 10: Entrepreneurial and development activity

#### 4. Main activities in 2006/07

The Center's progress in achieving the targets outlined above is described below.

- Increase the number of papers submitted for review to internationally recognized journals from the current output of 14 papers per year to 25.  
CUPPA 2010 Goal 1: Intellectual contributions

**Result:** *Did not meet target. Published or have as forthcoming 14 papers.*

**Additional Information:** *List of publications is given in Appendix 6A.*

- Increase the number of national and international conference presentations to greatly increase the center's visibility.  
CUPPA 2010 Goal 1: Intellectual contributions

**Result:** *Did not meet target. This number has fallen to 26 from 40 and is of concern.*

**Additional Information:** *List of publications is given in Appendix 6B.*

- Develop and implement targeted scholarly and grants goals for each staff member, for the purpose of performance evaluation.  
CUPPA 2010 Goal 1: Intellectual contributions

**Result:** *Met target. Employment Development Plans were generated for each research staff member.*

- Search for and hire a new permanent Director of UTC.  
CUPPA 2010 Goal: Consistent with all CUPPA 2010 Goals.

**Result:** *Did not meet target.*

- Continue to streamline prototype transparent accounting practices system in place Spring 2006, testing and feedback from users Spring and Summer 2006  
CUPPA 2010 Goal 11: Efficient allocation of current resources

**Result:** *Met target.*

- Develop collaborative relationships with School of Planning and Architecture in Delhi, India and explore relationships to be developed with universities in the Dominican Republic.  
CUPPA 2010 Goal 6: External partnerships.

**Result:** *Partially met target. We are close to signing a partnership agreement with SPA, Delhi but no progress has been made with the DR universities.*

- Win grants with a value in excess of \$1,000,000 during 2006/07  
CUPPA 2010 Goal 1: Intellectual contributions, and Goal 10: Entrepreneurial and Development Activity

**Result:** *Met target. UTC grants and contract expenditures was more than \$1.6 million for the 2006/07 year. The value of new contracts signed exceeds \$1 million.*

**Additional Information:** *Grant activity is given in Appendix 3.*

- New promotional materials for UTC drafted by Spring 2007  
CUPPA 2010 Goal 10: Entrepreneurial and development activity

**Result:** *Met target but will continue efforts.*

- Develop and refine website content and appearance by Summer 2007  
CUPPA 2010 Goal 10: Entrepreneurial and development activity

**Result:** *Ongoing with new support from the Interim Dean's office.*

- Announce Krambles scholarship in summer and fall 2006, award scholarship in Fall 2006.  
CUPPA 2010 Goal 2: Preparing students, and Goal 10: Entrepreneurial and development activity

**Result:** *Completed. The fundraising event was so successful that three scholarships were awarded; one \$1,000 scholarship and two \$500 scholarships.*

## **Research**

The annual Metropolitan Transportation Support Initiative (METSI) grant funded by the Illinois Department of Transportation, first granted in 1999, has been continued for another year. There are three components to the METSI program: Research Projects, Technical Assistance and Workshops and Education.

### Research Projects

Major efforts were undertaken in the following projects: Improving Operational Performance of Ramp Metering Systems, Center for Freight and Infrastructure Research and Education, Highways and Sprawl and County transportation plans. Basic research in Longitudinal Employment and Household Dynamics and American Community Survey data is underway. Staff has had involvement in three county projects: the McHenry County Transportation Implementation Task Force, the Lake County Coordinated Transportation Services Committee and the Lake County Commuter Coalition. Several papers resulted from the activities: Emerging Commuting Trends: Evidence from the Chicago Area, Lake County Paratransit Survey Final Report and Commuter Rail University Fare Programs in the U. S.

### Technical assistance

Staff provided technical assistance to fifteen agencies representing state, regional, county, municipal and non-profit agencies in the Chicago region and the state of Illinois.

### Workshops and Education

The Urban Transportation Center sponsored or cosponsored workshops on various transportation topics ranging from Transportation Demand Management, Bus Rapid Transit, Truck Parking, Regional Economic Models, and Safe Routes to School. In addition, the following major conferences were sponsored or cosponsored: Making the Chicago Region More Competitive in the Global Supply Chain Summit, Rail~Volution 2006, Chicago Chapter Transportation Research Forums and Chicago Metropolitan Agency for Planning Working Together in the 21<sup>st</sup> Century: An Interactive Economic Development Summit and an Innovation and Integration Summit.

The project titled "Continued Collaboration Among CTA, UIC, and MIT," has received continued funding through July 2007 and is expected to continue throughout the 2007/08 school year.

Ongoing topics of this research include:

- Technical Performance Analysis of Public Transit Using Data Envelopment Analysis Method
- Evaluation Strategies for Intelligent Transportation System Enhancements
- CTA Automatic Passenger Counter Accuracy Study and Bus Arrival/Departure/Dwell Time Prediction
- The Effect of Crime and Fear of Crime on Chicago Transit Authority Ridership
- Development of Long-Term Financial Solutions for the Chicago Transit Authority

Several projects were completed during this year. These projects produced detailed project reports.

## **Education**

The course offerings by UTC faculty are given in Appendix 4.

Twenty-five (25) graduate students in Urban Planning and Policy, Public Administration, Civil Engineering and Mathematics, Statistics and Computer Science were funded by the UTC graduated over the 2006-2007 period. The list of students supported is given in Appendix 4. Five master's students and 3 Ph.D.'s supported by UTC have graduated during this year. These students have either all successfully been placed in nationally/internationally competitive jobs or have continued onto doctoral studies. Six students won significant awards – they are listed in Appendix 10.

We again produced the UTC resume book and all students seeking summer internships found placements for Summer 2007.

## **Outreach**

Our most visible outreach activities, the Fall Symposium and the UTC Connector, continued this year. We also continued our UTC Friday seminar series and hosted several internet seminars. The list of seminars and events offered by UTC is given in Appendix 5.

The UTC Seventh Annual Fall Symposium, titled “Making the Chicago Region More Competitive in the Global Supply Chain”, was a collaborative effort co-hosted with UIC’s Center for Supply Chain Management and Logistics. Appendix 7 gives the particulars of the symposium. The symposium was very well-attended.

UTC faculty and staff continue to be very active in professional organizations. We have representation on eight different technical committees in the Transportation Research Board (TRB). We have continued our affiliation with the Community Transportation Association of America (CTAA) and the American Public Transportation Association (APTA). We serve on journal editorial boards, review panels, external review panels, planning commissions and advisory groups. We also serve on numerous university committees, college committees and program committees. The list of professional organizations and committees in which UTC faculty and staff have participated in the last year is given in Appendix 8.

## **Administration**

The five and ten-year directions identified in the UTC Strategic Plan in 2004/2005 remain unchanged and has been updated to reflect newer priorities.

## **5. Targets for 2007/08**

Goals and targets for 2007/08 were identified, discussed and revised and are as follow:

- Increase the number of papers submitted for review to internationally recognized journals from the current output of 14 papers per year to 20.  
CUPPA 2010 Goal 1: Intellectual contributions
- Increase the number of national and international conference presentations from 26 to 40.  
CUPPA 2010 Goal 1: Intellectual contributions

- Develop targeted scholarly and grants goals for each staff member, for the purpose of performance evaluation and perform intensive performance review based on these goals.  
CUPPA 2010 Goal 1: Intellectual contributions
- Search for and hire a new permanent Director of UTC.  
CUPPA 2010 Goal: Consistent with all CUPPA 2010 Goals.
- Develop collaborative relationships with School of Planning and Architecture in Delhi, India  
CUPPA 2010 Goal 6: External partnerships.
- Win grants with a value in excess of \$1,000,000 during 2007/08  
CUPPA 2010 Goal 1: Intellectual contributions, and Goal 10: Entrepreneurial and Development Activity
- New promotional materials for UTC drafted by Fall 2007.  
CUPPA 2010 Goal 10: Entrepreneurial and development activity
- Develop and refine website content and appearance by Fall 2007.  
CUPPA 2010 Goal 10: Entrepreneurial and development activity
- Announce Krambles scholarship in summer and fall 2007, award scholarship in Fall 2007.  
CUPPA 2010 Goal 2: Preparing students, and Goal 10: Entrepreneurial and development activity
- Develop a Working Paper and Technical Report series.  
CUPPA 2010 Goal 1: Intellectual contributions

## **Appendix 1: Urban Transportation Center Faculty and Staff**

### **Faculty employed by the Center**

Piyushimita (Vonu) Thakuriah	Interim Director and Associate Professor of Urban Planning and Policy
Joseph DiJohn	Director of METSI
Paul Metaxatos	Research Assistant Professor
Ashish Sen	Professor Emeritus
Siim Sööt	Research Professor, Geography (emeritus)
P. S. Sriraj	Senior Associate and Research Assistant Professor

### **Faculty associated with the Center**

Darold Barnum	Professor of Managerial Studies
Kazuya Kawamura	Associate Professor of Urban Planning and Policy
Jie (Jane) Lin	Assistant Professor of Transportation Engineering
Sharon Mastracci	Assistant Professor of Public Administration
Abolfazl (Kouros), Mohammadian	Assistant Professor of Transportation Engineering
Peter Nelson	Head and Professor of Computer Science
Anthony Pagano	Associate Professor of Managerial Studies
Michael Shiffer	Clinical Associate Professor of Urban Planning and Policy
Eric Welch	Associate Professor of Public Administration
Ouri Wolfson	Professor of Computer Science

### **Visiting Scholars**

C. Jotin Khisty  
Susumu Kudo

### **Support Staff**

Karin Allen	Interim Assistant Director of Research Programs and Research Transportation Program Manager
Silvia Becerra	Program Coordinator
Lise Dirks	Research Transportation Specialist
Vanessa Smith	Associate Director for Business and Finance
George Yanos	Principal Research Programmer

## Appendix 2: UTC Supported Students

First Name	Last Name	Degree	Expected Graduation
Dana	Anderson	PhD-Econ	May-09
Jacob	Bauer	B.S.	May-08
Joost Gidon	Berman	PhD-UPP	May-08
Thomas	Brecheisen	MCE	May-08
Vishal	Broker	MBA	May-07
Rajmonda	Caceres	MISI	May-08
Caitlin	Cottrill	PhD-UPP	May-09
Andrew	Heidel	MUPP	May-08
Stephen	Hunt	MUPP	May-08
Liang	Long	PhD-CE	May-09
Yandan	Lu	PhD-UPP	May-08
Lisa	Maggio	BS	May-09
Daisuke	Mizusawa	PhD-UPP	May-07
Ryan	Richter	MUPP	May-08
Todd	Schmidt	MUPP	May-07
Matthew	Smith	MPA	May-08
Matthew	Stratton	MUPP	May-08
Tanushri	Swarup	MUPP	May-08
Lei	Tang	PhD-UPP	May-08
Bianca	Vintila	BS	May-07
Anam	Waqar	MPA	Dec-06
Peng	Wang	MSCE	May-07
Amir	Samiri	Ph.D.	Aug-09
Sadayuki	Yagi	PhD-CME	Dec-06
Nilay	Yavuz	PhD-PA	May-08
Yong-Ping	Zhang	PhD-CME	May-09

### Appendix 3: Research Projects and Proposals

Status	Principal Investigator	Project Title	Sponsor	From	To	Amount
New	Joseph DiJohn	Disruption Management Template	Illinois Department of Transportation	9/6/06	6/30/08	\$99,545
		Metropolitan Transportation Support Initiative FY08		7/13/07	6/30/09	\$500,000
		Technical Services Amendment	Regional Transportation Authority	9/1/98	6/30/08	\$254,399
	Lise Dirks	Public Transit and Specialized Transportation Providers Database	Illinois Department of Transportation	7/18/07	12/31/07	\$212,014
	Kazuya Kawamura	FREQ2	Chicago Metropolitan Agency for Planning	12/4/06	12/31/07	\$52,000
	Piyushimita Thakuriah (Vonu)	Human Service Transportation Survey	Community Transportation Association of America	04/07/07	05/14/08	\$149,862
		Design of Special Events, Weather and Construction Delay Component of a Dynamic Traveler Information System	NAVTEQ	09/30/07	09/30/07	\$143,200
		Bus on Shoulders: Implications for Illinois	Illinois Department of Transportation	09/30/07	09/14/07	\$80,000
Ongoing	Joseph DiJohn	Metropolitan Transportation Support Initiative FY07	Illinois Department of Transportation	7/1/06	6/30/08	\$735,000
	P.S.Sriraj	Asset Management and Metropolitan Planning Organizations	University of Wisconsin-Madison	7/1/06	12/31/07	\$55,064
	Piyushimita Thakuriah (Vonu)	Systemwide Information for Transportation Assessment and Research	Federal Highway Administration	11/17/04	6/30/08	\$207,000
		IGERT: Graduate Program in Computational Transportation Science (CUPPA PI)	National Science Foundation	2/14/06	2/14/11	\$3,097,976
		Job Access-Reverse Commute	Federal Transit Administration	5/1/00	12/31/08	\$1,000,000
		Planning Partnerships and Economic Benefits of Employment Transportation	Federal Transit Administration	8/14/05	09/30/08	\$132,500

		Study on Employment Transportation Benefits and Partnerships	Community Transportation Association of America	8/14/2005	9/30/08	\$80,000
<b>Completed</b>	Joseph DiJohn	Metropolitan Transportation Support Initiative (METSI) FY06	Illinois Department of Transportation	2/18/05	6/30/07	\$500,000
	Sue McNeil	Web Site Support Services	American Association of State Highway and Transportation Officials	5/16/05	8/14/07	\$80,000
		Environmental Correlates and Adherence of Home-Based Walking in African-American Women	Robert Woods Johnson Foundation	4/1/05	3/31/07	\$140,000
	Kouros Mohammadian	Transit Strategies Targeting Elderly People	Illinois Center for Transportation	7/1/06	6/30/07	\$61,875
	Laxmi Ramasubramanian	Water Supply Planning Tool	UIUC	3/1/04	2/28/07	\$40,000
	Siim Sööt	Outer Circumferential Land Use Study	S.B. Friedman & Company	9/1/02	12/31/06	\$30,000
	P.S. Sriraj	Continued Collaboration Among the CTA, UIC and MIT Year 2	Chicago Transit Partners	7/29/06	7/28/07	\$326,694
<b>Declined</b>	Piyushimita Thakuriah	GIS Support for the FTA's Transit Benefit Model	Federal Transit Administration	5/1/06	12/31/07	\$330,651
		Randolph Scholarship FY07	IDOT	8/16/06	8/14/07	\$34,697
		Lipinski Scholarship FY07	IDOT	8/16/06	8/14/07	\$34,697
		Collaborative Decision Making Regarding the Adoption of Advanced Transportation Technologies	National Science Foundation	8/14/06	8/14/09	\$712,703
		Design of a Prototype Travel Time Information System For Dynamic Content Dissemination	NAVTEQ	9/14/06	8/31/07	\$203,662
		Design of a Context-Aware Traveler Information System	NAVTEQ	4/16/07	10/14/09	\$599,570
		Tier 1 Center	US Department of Transportation	1/1/07	12/31/09	\$3,000,000

<b>Pending</b>	Kazuya Kawamura	Academic Partnership Under CFIRE	University of Wisconsin-Madison	8/1/07	7/31/12	\$500,000
		Development of Freight Planning Support System for Northeastern Illinois	Illinois Department of Transportation	8/16/07	8/14/08	\$178,734
	P.S.Sriraj	Chicago Transit Partners	Continued Collaboration Among the CTA, UIC, and MIT Y3	9/13/07	4/28/08	\$328,247
		Scoping Data Access and Integration Needs to Facilitate Better Management of Research Innovation	University of Wisconsin-Madison	7/1/07	4/30/08	\$109,029
	Piyushimita Thakuriah	Analysis Towards 2008 Congressional Report on JARC Program	Federal Transit Administration	7/14/07	8/14/08	\$236,925
		Post-Implementation Evaluation of Emissions Benefits of CMAQ Projects (Accepted, under revision)	Chicago Metropolitan Agency for Planning	7/1/07	6/30/08	\$160,000
		National Longitudinal Travel Survey	Federal Transit Administration	11/14/07	11/14/10	\$1,000,000
		Transportation Equity Research Program (under review)	Federal Transit Administration	09/14/07	09/14/10	\$350,000





## Appendix 4: Courses

### Courses Taught Fall 2006

Course Number	Course Name	Instructor
UPP 560	Urban Transportation I: Introduction	Kawamura
UPP 563	Transportation Management	DiJohn
UPP 565	Special Topics: Transportation Finance	Schlickman
CME 302	Transportation Engineering	Lin
CME 408	Traffic Engineering & Design	Mohammadian
CME 508	Urban Travel Forecasting	Mohammadian

### Courses Taught Spring 2007

Course Number	Course Name	Instructor
UPP 561	Urban Transportation II: Policy & Methods	Thakuriah with Sriraj and DiJohn
UPP 562	Urban Transportation III: Lab	Kawamura
UPP 565	Special Topics: Advanced Transit Technologies	Schiffer
UPP 589	Data Analysis and Management II	Thakuriah
CME 402	Geometric design of Highway Facilities	Mohammadian
CME 594	Environmental Research Seminar	Lin
CS 594	Principles of Computation Transportation Science	Thakuriah with Wolfson

### Employer Training 2006-2007

Date	Topic
10/18/06	Net Conference: "Striving To Be The Best: Employer Transportation Demand Management Programs That Deliver Results to Employees and Stockholders"
2/16/07	REMI Session: "Strategic Action Plan and Growth Impact Assessment Due to Expansion of Fort Riley"
3/5/07	REMI Session: Introduction to REMI
3/19/07	REMI Session: National Model, Forecasting, REMI Forecast and Regional Profile Using DevSight (Part I)
4/2/07	REMI Session: Model Linkages, Part I: Output, Linkages, and Capital Demand
4/4/07	Webcast: Federal Highway Administration
4/16/07	REMI session: Model Linkages, Part II: Population Wages, Prices, Profits, and Market Share
4/25/07	Net Conference: Do You Get What You Incent? A Virtual Discussion
6/21/07	Net Conference: A Look at Employer TDM Programs in theMidwest
7/26/07	Net Conference: Safe Routes to School: Why They Matter to Kids, to Communities, and to Transportation Demand Management Professionals"

## Appendix 5: Seminars and events

Date	Event
September 1, 2006	Orientation/Luncheon
September 8, 2006	George Yanos
September 22, 2006	Vonu Thakuria, Karin Allen, and Lise Dirks discussed research and projects
September 29, 2006	Paul Metaxatos and Joe DiJohn discussed research and projects
October 6, 2006	Susumu Kudo, presented: "Takefu City Accident Data Analysis: Perceived Danger and Real Accidents"
October 13, 2006	Kouros Mohammadian and Jane Lin discussed research and projects
October 27, 2006	Lise Dirks discussed various data sets at UTC
November 3, 2006	Kazuya Kawamura and P.S. Sriraj discussed their research interests and projects
November 30, 2006	Ray Benekohal, UIUC, presented: "Signal Progression Effects on Congestion and Capacity of Intersections"
March 21, 2007	Siim Sööt discussed his research and projects
April 6, 2007	Jeff Busby, Chicago Transit Authority, presented "The CTA's Pink Line Rapid Transit Service Routing Alternatives and Customer Impact Evaluation"
April 13, 2007	Wenjing Pu presented "Travel Time Prediction on Signalized Urban Streets Using AVL Buses as Probes"
	Liang Long presented "Investigating Mode Choice Regional Variance by Using National Household Travel Survey (NHTS) and Census Transportation Planning Package (CTPP)"
April 20, 2007	Caitlin Cottrill presented "Examining Privacy in the Context of Intelligent Transportation Systems"
	Yong-Ping Zhang presented "Household Travel Data Simulation"
April 27, 2007	Lei Tang presented "An Analysis of Behavioral Responses to Real-Time Transit Information Systems"
	Gidon Berman presented "American Community Survey (ACS) Data"
May 11, 2007	Nilay Yavuz presented "Individual and Neighborhood Determinants of Perceptions of Bus and Train Safety in Chicago: An Application of Hierarchical Linear Modeling"
	Rajmonda Caceres presented "Topographically-Based Real-Time Traffic Anomaly Detection in a Metropolitan Highway System"

## Appendix 6A: List of Publications

- 1) Barnum, D.T., S. McNeil, and J. Hart. "Comparing the Efficiency of Public Transportation Subunits Using Data Envelopment Analysis." *Journal of Public Transportation*, Vol. 10, No. 2.
- 2) DiJohn, J. and S. Sööt. "Emerging Commuting Trends: Evidence from the Chicago Area." *Journal of Transportation Research Forum*, Volume 45, No. 3.
- 3) Haller, M., S. Fulla, J. Lin, E. Welch. "Cost-Effectiveness and Environmental Impact of Alternative Fuel Vehicle Fleet Conversion Program: A Local Case Study." *Transportation Research Part D*. December 2006.
- 4) Kawamura, K., and Y.D. Lu. "Effectiveness and Feasibility of Innovative Freight Strategies for the U.S. Urban Areas." *Recent Advances in City Logistics*, Elsevier.
- 5) Misuzawa, D. "Evolution of Road Projects in Southeast Asia: Maintaining and Developing Sustainability." *Journal of Traffic Engineering*, Volume 42, No. 1, pp. 43-49. January 2007.
- 6) Misuzawa, D., and S. McNeil. "Synthesizing Experiences of Implementing Asset Management in the World: Lessons Learned from Pavement Management Case Studies." *Transport Policy Studies Review*, Volume 9, No. 34: 21-30, October 2006.
- 7) Mohammadian, A. and S. Yagi. "Activity-Based Simulation Modeling of Travel Demand for Estimation of Mobile Emissions and Air Quality Analysis: A Case Study of Jakarta Metropolitan Area. Proceedings of the Better Air Quality 2006, Yogyakarta, Indonesia. December 13-14, 2006.
- 8) Sriraj, P.S. and P. Thakuriah (2006). "A Spatial Decision Support System for Transit and Housing Markets using the Analytic Hierarchy Process and Interactive GIS." *Proceedings of the Applications of Advanced Transportation Technology of the American Society of Civil Engineers*.
- 9) Sriraj, P.S., M. Minor and P. Thakuriah. (2006) "Spatial Decision Support System for Low-Income Families: Relocation Tool for the Chicago, Illinois, Region." In *Transportation Research Record, Journal of the Transportation Research Board*, No 1956, pp. 119-126.
- 10) Thakuriah, P. and Y. Liao (2007). "Transportation Expenditures and Ability to Pay. Evidence from Consumer Expenditure Survey." In *Transportation Research Record, Journal of the Transportation Research Board*, Vol. 1985, pp.257-267.
- 11) Thakuriah, P., P.S Sriraj, S. Sööt and Y. Liao (2007). "Determinants of Perceived Importance of Targeted Transportation Services for Low-Income Riders." In *Transportation Research Record, Journal of the Transportation Research Board*, Vol. 1986, pp. 145-143.

- 12) Thakuria, P. (2006). "An Examination of the Simultaneous Relationship between Transportation Expenditures and Household Incomes." Proceedings of the 11<sup>th</sup> International Conference on Travel Behaviour Research, Kyoto, August, 2006.
- 13) Young, D., and J. DiJohn. "Chicago Mass Transit's Period Financial Woes." First & Fastest, Autumn, 2007. Volume 23, Number 3.
- 14) Zhou, J. and S. Sööt. "Nationwide Survey of Transportation Planning Courses: Introduction, Findings, and Recommendations." Transportation Research Record: Journal of the Transportation Research Board, No. 1956, pp. 175-183.

## Appendix 6B: List of Presentations

- 1) DiJohn, J. "Chicago Mass Transit's Periodic Financial Woes." Presentation to Chicago Chapter of Transportation Research Forum, Chicago, IL. November 29, 2006.
- 2) Doherty, S. and A. Mohammadian. "Validity of Using Activity Type to Structure Tour-Based Scheduling Methods." Transportation Research Board. January 2007.
- 3) Fan, P., A. Mohammadian, P. Nelson, J. Haran, and J. Dillenburg. "Novel Direction-Based Clustering Algorithm in Vehicular Ad Hoc Networks." Transportation Research Board. January 2007.
- 4) Kawamura, K., R. vom Hofe, and S. Chen. "Economic Impacts of Truck Lanes – A CGE Analysis." Association of Collegiate Schools of Planning Annual Meeting. Fort Worth, TX. November 10, 2006.
- 5) Kawamura, K. "Freight Planning and Strategies for Urban Built Areas." New Mobility and Accessibility: Interactive Dimensions. Center for Advancing Research and Solutions for Society, University of Michigan, Ann Arbor. November 17, 2006.
- 6) Kawamura, K. and Y. Lu. "Evaluation of Application of Delivery Consolidation in U.S. Urban Area Using Logistics Cost Analysis." Transportation Research Board. January 2007.
- 7) Lin, J. and L. Long. "A Hierarchical Logit Model Analysis of Transferability of National Household Travel Survey Data." The 53<sup>rd</sup> Annual North American Meeting of the Regional Science Association International, Toronto, ON, Canada. November 16, 2006.
- 8) Lin, J., C. Chen, and D.A. Niemeier. "An Analysis on Long Term Emission Benefits of a Government Vehicle Fleet Replacement Plan in Northern Illinois." The 11<sup>th</sup> International Conference of the Hong Kong Society for Transportation Studies. December 9-11, 2006.
- 9) Lin, J. "Integrating Land-Use, Urban Transport, and Air Quality: A Comparative Study of China and India. University of Michigan's Center for Complex Systems and Center for Advancing Research and Solutions for Society. November 17, 2006.
- 10) Lu, Y. "Examining of the Path Dependency of Urban Development and Work Trip Mode Balance Using Agent-Based Model." Chicago Area Transportation Modeling Users Group. April 4, 2007.
- 11) Mohammadian, A. and T. Rashidi. "Modeling Household Vehicle Transaction Behavior: Competing Risk Duration Approach." Transportation Research Board. January 2007.

- 12) Mohammadian, A. and Y. Zhang. "Investigating the Transferability of National Household Travel Survey Data." Transportation Research Board. January 2007.
- 13) Mohammadian, A., T. Rashidi, R. Barton, and T. Litman. "Estimation of Costs of Cars and Light Truck Use Per Vehicle-Kilometer in Canada." Transportation Research Board. January 2007.
- 14) Pagano, A. and P. Metaxatos. "Impact of Computer-Assisted Scheduling and Dispatching Systems on Efficiency of Delivery of Paratransit Services: Evidence from Peoria, Illinois." Transportation Research Board. January 2007.
- 15) Pu, W., D. Boyce, and J. Lin. "Trip Table Realization: Underlying Stochasticity and Impacts on Assigned Link Flows." Transportation Research Board. January 2007.
- 16) Tang, L. and P. Thakuriah. "Relationship of Attitudes towards Road and Transit Capital Investments and Propensity to Ride Transit Given Traveler Information." Paper presented in January, 2007 annual meetings of the Transportation Research Board, Washington, DC.
- 17) Tang, L. and P. Thakuriah. "An Analysis of Behavioral Responses to Real-Time Transit Information." Paper presented in the Association of Collegiate Schools of Planning, November, 2006.
- 15) Tang, L. and P. Thakuriah. "An Examination of Anticipated Behavioral Responses to Real-Time Transit Information Systems." Proceedings of the World Conference on Transport Research Society, 2007.
- 18) Thakuriah, P. "Modeling Accessibility and Equity in Transportation: Perspectives for the Indian Context." University of Michigan's Center for Complex Systems and Center for Advancing Research and Solutions for Society. November 17, 2006.
- 19) Thakuriah, P. "LEHD: Potential for Transportation Planning and Programming." Joint Census Bureau and Bookings Institute Workshop on Local Employment Dynamics. Washington, D.C. February 1, 2007.
- 20) Thakuriah, P. "National Longitudinal Travel Data." Federal Transit Administration. Washington, D.C. February 1, 2007.
- 21) Thakuriah, P. "Design of Prototype Travel Time Information System for Dynamic Content Dissemination and Management." NAVTEQ. Chicago, IL. October 25, 2006.
- 22) Wilson, D. and K. Kawamura. "The Returning Trolley – Reintroduction of Streetcars in American Communities." Association of Collegiate Schools of Planning Annual Meeting. Fort Worth, TX. November 10, 2006.

- 23) Yagi, S. and K. Mohammadian. "Transportation Policy Analysis Using an Activity-Based Microsimulation Model." 53<sup>rd</sup> Annual North American Meeting of the Regional Science Association International, Toronto, ON, Canada. November 14-18, 2006.
- 24) Yagi, S. and A. Mohammadian. "Policy Simulation for New Bus Rapid Transit and Area Pricing Alternatives Using an Opinion Survey in Jakarta." Transportation Research Board. January 2007.
- 25) Yagi, S. and A. Mohammadian. "Microsimulation and Policy Applications of an Activity-Based Modeling System of Travel Demand." Transportation Research Board. January 2007.
- 26) Yavuz, N., E. Welch, and P.S. Sriraj. "Individual and Neighborhood Determinants of Perceptions of Bus and Train Safety in Chicago: An Application of Hierarchical Linear Modeling." Transportation Research Board. January 22, 2007.

**Appendix 7: Annual Symposium**

Urban Transportation Center  
Seventh Annual Fall Symposium

**Making the Chicago Region More Competitive  
in the Global Supply Chain**

November 21, 2006  
8:30 am – 5:30 pm  
University of Illinois at Chicago  
Illinois Room, Student Center East

## **Appendix 8: Service and Professional Memberships**

### **Service and Membership Highlights**

Members represent UTC in various organizations including the following:

#### **University of Illinois at Chicago**

UTC faculty and students are active participants in the University and College Committees. We have also made significant efforts to work with other colleges within the university on proposals including:

- College of Engineering
- Institute of Environmental Science and Policy
- College of Business Administration

In addition, UTC's PhD students developed and continue to host a PhD forum as a way to exchange information regarding research.

Faculty and staff currently serve on the following committees:

#### **Regionally**

- Chicago Transportation Research Forum
- Metropolitan Planning Council Transportation Committee
- Metropolitan Transportation Association
- Metropolis 2020 Freight Advisory Task Force
- Business Leaders for Transportation Freight Planning Committee
- CMAP Transportation Committee
- CMAP Advanced Technology Task Force
- Greater North Michigan Avenue Association Transportation Committee
- Illinois Transportation Research Committee
- Chicagoland REDI
- Institute of Transportation Engineers Midwest Program Committee
- GCM Corridor Deployment Committee
- CMAP Intermodal Advisory Task Force

#### **Nationally**

- American Association of State Highway and Transportation Officials Asset Management Task Force
- American Public Transit Association (APTA)
- American Society of Civil Engineers (ACSC)
- Association for Commuter Transportation (ACT)
- Board on Infrastructure and the Constructed Environment
- Various TRB Committees
- Job Access and Reverse Commute National Evaluation Committees

#### **Internationally**

- Intelligent Transportation Systems World Congress Program Committee
- Institute of City Logistics Conference Organizing Committee







## Appendix 10: Awards of Merit

<b>Name</b>	<b>Award</b>
Yong-Ping Zhang	\$1000 Krambles Scholarship
Erica Interrante	\$500 Krambles Scholarship
Nicholas Christensen	\$500 Krambles Scholarship
Liang Long	ITE 2006 Best Student Paper Award and ITE 2006 Student Scholarship
Wenjing Pu	2007 ASCE Illinois Section Transportation Scholarship
Liang Long	2007 ASCE Illinois Section Transportation Scholarship
Yandan Lu	Lincoln Institute of Land Policy Dissertation Fellowship

## Appendix 12: Diversity Lunches

Date	Topic/Country/Culture	Speaker(s)
September 11, 2006	Native Americans/American Indians	Marilyn Miller
October 23, 2006	Gender Equality	Karin Allen
November 13, 2006	Iran	Taha Rashidi
February 12, 2007	Turkey	Nilay Yavuz
March 20, 2007	How homelessness relates to transportation in Chicago	Jose Sifuentes, City of Chicago Dept. of Human Services and Fred Friedman, The Chronic Homeless Constituency Committee
April 3, 2007	New Delhi	Tanushri Swarup
May 14, 2007	Planning for the Hajj	Kheir al-Kodmany