

Urban Transportation Center

2002-2003 Annual Report

Director: Sue McNeil

Associate Director: Piyushimita (Vonu) Thakuriah

Introduction and Highlights

This year was characterized by hard work and accomplishments consistent with the outstanding effort, originality, deep knowledge and willingness to address challenging problems on the part of the faculty, staff and students. The base of projects, and the faculty and staff working with the center have remained relatively stable. This means that we have been able to concentrate on our research and educational mission while building on the strong links to local, regional and state agencies and establishing national level project. We have also welcomed a new dean and encourage him to help us define our role in the college, as well as interact with other units. UTC faculty, staff and students have been active participants in the college strategic planning process.

Over the course of the year the center faculty staff and students have significant accomplishments, including:

- 10 papers published or scheduled for publication in refereed journals
- 13 paper published in refereed conference proceedings
- 35 other presentations
- 16 masters students graduated
- 8 student awards
- 23 new proposals were submitted during 2002-2003, 15 contracts were awarded (two of which were proposal submitted during the preceding year). The successful proposals totaled almost \$2.3 million.

We have now made the beginning of fall semester picnic, the extensive new student orientation, the fall symposium, the alumni reception during the Transportation Research Board Annual meeting, and the UTC retreat a tradition by repeating these successful events. They provide us with an opportunity to expose students, faculty and staff to new ideas, get to know each other better, and build on our base of skills for analyzing and synthesizing transportation problems, and to work better as a team.

This year we have seen a significant turnover in our advisory board. Richard Bacigalupo, Executive Director of the Regional Transit Authority and chair of our advisory board left the area for Orange County. Rick has served not only as a committed leader of the advisory board but also as a strong supporter of UTC. Stephen Schindel, Director of the Department of Public Transit, Illinois Department of Transportation retired. Steve and his office have worked with us in setting directions and identifying specific projects. Phil Pagano, Executive Director of Metra has assumed the role of chair. Paula Thibeault, Interim Director of RTA has also joined the board as well as UTC alum, Christine Johnson, Director of Field Services – West for the Federal Highway Administration. We also added a new member to the advisory board, Mike Tryon, Chairman of the McHenry County Board.

We now have a core group of doctoral students who are able to contribute to the center. In the fall of 2003 we will add three new PhD students, two of which have been awarded the College Distinguished Scholar Award, to this already distinguished group. This will bring our total number of PhD students to 8.

Aims of the Unit Overall

Mission:

The Urban Transportation Center 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 as a living laboratory.

Vision:

The Urban Transportation Center will be a nationally recognized center for research, education and training in planning, analyzing and modeling urban transportation. 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 urban transportation issues and problems. The center also serves to educate and train the next generation of transportation professionals and leaders.

Goals for 2002-2003

Continued from 2001-2002

- Develop a proactive budget process that enables us to track the assignment of personnel to projects and project budget commitments.
Still under development
- Formalize the informal committee structure in UTC (computing/space, publications, working paper series FAC, advisory board and others) and introduce processes for easy documentation of center activities.
Little or no progress
- Explore interests in transportation in other parts of the university e.g. public health.
UTC developed two proposals this year with faculty from Public Health, and the director met with the director of the Occupational and Environmental Health to discuss mutual research interests. We have also worked with the Institute for Environmental Science and Policy.
- Conduct one-on-one meetings with advisory board members and other constituents.
Meetings continued. These meetings became a mechanism for soliciting letters of support for National Science Foundation proposals and our quest to be named a "University Transportation Center."
- Revise the faculty and staff development process within UTC.
The ongoing college-wide strategic planning process includes faculty and staff development.
- Create a formalized internship program for students drawing on the resources of our advisory board.
Little progress. UTC again produced a resume book and circulated it widely. All students found funded or unfunded internships to meet graduation requirements.
- Explore opportunities to offer continuing education, short courses and professional development to local transportation executives and mid-level managers.
Discussions with local agencies are continuing.

New Goals for 2002-2003

- Promote UTC locally, nationally and internationally.

UTC faculty, staff and students participated in local, national and international conferences. Several presentations were made at universities and to committees.

- Recruit graduate students particularly PhD students
Our pool of PhD applicants was outstanding. One additional student who was admitted decided to attend University of Maryland.
- Think about how to better integrate UTC into the college, and university.
Faculty, staff and students actively participated in the college strategic planning process as well as other events such as Earth Day, and the Environmental Conference.
- Strengthen the relationship with the College of Engineering.
UTC participating in two significant proposals to the National Science Foundation with faculty in Computer Science. Despite participation in the faculty search process, graduate committee, and advising six Civil Engineering graduate students the relationship with Civil Engineering is fragile.
- Continue to seek long term stable support for the center through funding from the University Transportation Centers program and matching money from local agencies.
We have worked with Government Relations to gather support for a University Transportation Center from the Illinois delegation. We have also obtained letters of support from several agencies represented on our advisory board and obtained a resolution of support from the advisory board.
- Develop a case for recruiting additional faculty. Ideally this would be two faculty in transportation in civil engineering and one in urban planning. One of the faculty in engineering would be at the senior level to serve as an associate director of the center for engineering.
While offers have been made for two faculty positions in Civil Engineering for transportation faculty, it is clear that the department does not support close ties with the Urban Transportation Center. The budget situation in Urban Planning has precluded any discussion of additional affiliated faculty.

Main Activities in 2002-2003

The appendices document the accomplishments in terms of papers, presentations, projects, proposals, courses taught, professional contributions, and other scholarly activities of the faculty, staff and students affiliated with the Center. Appendix A includes lists of the UTC faculty, staff and students.

This section of the annual report provides a brief overview of UTC activities.

In terms of personnel and structure:

- Professor C. Jotin Khisty, Emeritus Professor at Illinois Institute of Technology joined UTC as a Visiting Scholar.
- Professor Thakuriah was on sabbatical during the Fall semester. During the leave, she was able to synthesize and significantly advance the ongoing work on transportation and low-income labor markets.
- The Great Cities Urban Data Visualization Laboratory will be an affiliated unit beginning July 1, 2003. Professor Shiffer will continue his leave at CTA and Research Assistant Professor Laxmi Ramasubramanian will continue to serve as Assistant Director.

Research

As many of the projects (Job Access Reverse Commute, Chicago Transit Authority, Transportation Information Clearinghouse) entered the second year of funding, we have begun to see the products of our research. We have also initiated some seed projects funded through the IDOT supported METSI project that either address specific issues of concern to IDOT, for example, a project to look at the NEPA and the statewide planning process, or new areas, for example, the economic impact of freight improvements. These projects are generating externally funded projects and publications. See Appendix B for a listing of successful proposals submitted during the past fiscal year.

Education

The faculty affiliated with UTC have continued to teach the Urban Planning and Policy transportation courses. One of the courses (Infrastructure Management) is also jointly listed with Civil Engineering. Due to budget constraints, plans for Jung Taek Lee and Paul Metaxatos to teach transportation courses in Civil Engineering were not realized. Similarly, Joseph DiJohn taught the Transportation Management course, but UTC was not compensated due to budget constraints. See Appendix C for a complete listing of courses.

We also conducted some training activities for CTA and professional development. In conjunction with the Association for Commuter Transportation (ACT) UTC has sponsored professional development activities including a workshops and a “webinar” on Bus Rapid Transit.

Outreach

UTC faculty and staff have continued to play an active role on professional committees, providing technical support for community based organizations, working with local agencies, and interacting with other campus organizations with peripheral interests in transportation, for example, the Green Campus Council and the Institute for Environmental Science and Policy.

In addition, UTC:

- Held an orientation session for research assistants in the fall. (See Appendix for schedule)
- Held Annual Fall Symposium (See Appendix D for the agenda.)
- Published two issues of UTC Connector (Fall 2002, Spring 2003)
- Continued the UTC Friday Seminar Series, See also Appendix D. for speakers and titles.
- Planned and hosted “The Great Lakes - Potentials and Challenges of Planning”, Study Tour, Trier University, Germany.
- Surveyed UIC Transit Check users for user feedback, Spring 2003

The Urban Transportation Center also hosted foreign dignitaries on six different occasions. Visiting delegations and individual visitors have been received from China, Germany, France, Norway, Saudi Arabia, New Zealand and India. The groups are anxious to learn of our region's transportation systems and how we plan and operate our transportation systems. Typically, we give an overview of the region's transportation systems and arrange tours of the CTA Control Center, Metra's communication Center and RTA's Travel Information Center.

These groups included:

- 16 representatives from the Yunnan Department of Transportation (August 2002)
- 30 faculty and students from the Department of Geography at Trier University in Germany (September 2002). The study tour focused on “The Great Lakes - Potentials and Challenges of Planning”.

Individual faculty are also actively involved in international activities. Professor Siim Soot traveled to Tallinn, Estonia to continue his work on traffic safety. This work is with his Ph.D. advisee (Dago Antov).

Antov is a student at the University of Tartu. In the spring Mr Antov and Professor Soot co-authored a presentation at the Annual Meeting of the Association for the Advancement of Baltic Studies held at Rutgers University. The presentation was on improved traffic safety in Estonia. Professor Kazuya Kawamura presented a series of seminars in Japan in May, 2003.

Administration

The administrative burden related to supporting 25-30 students, 18-20 faculty and staff, many grants, proposals, and events has exploded as UTC has grown far beyond the resources provided to support these activities. With the proposed addition of the Great Cities Urban Data Visualization Laboratory, we are working with the dean's office to address these issues.

Following on from a suggestion at the UTC retreat held in February, we have undertaken a survey of students and two focus groups to understand the students' perspective on UTC. We are currently synthesizing the results. Similarly, we are about to embark on a survey of our advisory board members to better understand how we might interact with them.

Accomplishments

Appendices E, F, G, and H document the following accomplishments:

- Appendix E – Journal articles, conference proceedings, reports, presentation, other publications
- Appendix F – Service
- Appendix G – Awards
- Appendix H – Thesis and Project titles

Reflections on 2002-2003 – Strengths and Weaknesses

Observations

Research at the Urban Transportation Center is becoming more focused. The core research streams are narrowing and it is easier to identify research projects that match our interests and expertise. Junior research faculty have also established core research streams in identifiable areas. At the same time, the PhD program is becoming larger and we have a mature group of PhD students with defined research areas. We have begun the process of establishing the transportation track for the new UPP PhD program.

Challenges

We are still struggling to balance UTC role in providing technical assistance and demonstrating scholarship. A lot of paper writing has been done but we still need work on:

- Identifying appropriate well-respect journals for scholarly research,
- Including all technical staff in the paper writing process,
- Identifying lessons learned, model strategies and generalizable results from technical assistance work, and
- Seeking publication outlets for applied research.

The cuts in the state budget have had a significant impact on our discretionary resources. Research assistantships have only been offered for projects in-hand and it will be challenging to staff new projects that might be awarded in the next six months.

Goals for 2003- 2004

- Address goals from previous years that have not been met but are still relevant.
 - Budgeting
 - Administration
 - Faculty and staff development

- Develop a mechanism for improving internal communications and interactions. Specifically, we need to be able to relate the substantive and development aspects of projects and grants. Our current staff meeting format is too diffused, and the seminars are too specific.
- Develop both short and long term plans for computing/ computer support/ programming support.
- Address student issues as identified in survey and focus groups.
- Enhance scholarship in terms of both quantity and quality.
- Enhance the PhD experience by developing seminars on how to write papers, proposals and participate in scholarly activities.
- Develop a career track for research assistant professors.
- Support GCUDV as appropriate.
- Continue to enhance our relationships with local agencies.

Appendix A. Affiliated Faculty and Staff

Faculty associated with the center:

David Boyce, Professor of Transportation and Regional Science
Kazuya Kawamura, Assistant Professor of Urban Planning and Policy
Peter Nelson, Professor of Computer Science
Anthony Pagano, Associate Professor of Management
Michael Shiffer, Associate Professor of Urban Planning and Policy (on leave Sept. 2002)
Piyushimita (Vonu) Thakuriah, Associate Professor of Urban Planning and Policy

Faculty employed by the center:

Joseph DiJohn, Research Professor, Urban Planning and Policy and Director of METSI
Jung-Taek Lee, Research Assistant Professor of Urban Planning and Public Affairs
Sue McNeil, Director and Professor of Urban Planning and Public Affairs
Paul Metaxatos: Research Assistant Professor of Urban Planning and Public Affairs
Siim Sööt, Research Professor, Geography (emeritus)
P.S. Sriraj, Research Assistant Professor, Urban Planning and Public Affairs

Associates/Visiting Faculty/ Adjunct Faculty:

Steve Schlickman

Visiting Scholar:

C. Jotin Khisty

Support Staff:

Karin Allen, Research Transportation Program Manager
Silvia Becerra, Program Coordinator
Gabrielle Brown, Visiting Program Coordinator
Lise Dirks, Research Transportation Specialist
James Kelly, Assistant Director for Research Programs
Shamus Misek, Research Transportation Program Manager
Alicia Morreale, Visiting Research Transportation Program Manager (academic hourly)
George Yanos, Research Programmer

Table 1. UTC Supported Students

FIRST NAME	LAST NAME	DEGREE	EXPECTED GRADUATION	FIRST NAME	LAST NAME	DEGREE	EXPECTED GRADUATION
Graduate Research Assistants							
Fenny	Anggraeni	MSA, MBA		Rapol	Reddy	MS	Dec-03
Ying (Betty)	Bao	MS	May-03	Jon	Schermann	MUPP	May-04
Rajmonda	Cáceres	MISI	Aug-03	Sudeshna	Sen	MUPP	May-03
Arnab	Chakraborty	MUPP	Dec-03	Hyeon-Shic	Shin	PhD	May-04
David	Fronczak	MUPP	May-03	Avinash	Sinha	MUPP	May-03
Geoffrey	Fruin	MUPP	May-04	Tanu	Sonkhya	ME	Aug-03
Graham	Garfield	MUPP	Aug-03	Nandini	Swarup	MUPP	May-04
Meghan	Hammerle	MUPP	May-04	Adam	Tennant	MS	Dec-03
Jonathon	Hart	MUPP	May-04	Audrey	Wennink	MUPP	Dec-03
Yihua	Liao	MUPP	May-03	Jeromie	Winsor	MUPP	May-04
Shruti	Mahajan	MUPP	Dec-03	Dong	Zhai	MUPP	May-04
Sanya	Niumpradit	PhD	May-04	Jiangping	Zhou	PhD	
Roseann	O'Laughlin	MUPP	May-04	Hourly Undergraduate Students			
Juan	Ortega	PhD	May-04	Rose	Njim	BS, Accounting	Dec-03
Shaumik	Pal	MUPP	May-03	Arati	Patel	BA, Psychology	May-05
Norma	Peña-Rivera	PhD	May-05	Vijay	Patel	BSME	May-04

Appendix B. Research Projects

Table 2. New Grants and Proposals

PRINCIPAL INVESTIGATOR, STATUS	PROJECT TITLE	SPONSOR'S Name of Organization	PROJECT PERIOD	
			From	To
Anthony Pagano	Intercity Bus	Illinois Department of Transportation	1/1/02	12/31/02
Anthony Pagano	Rural Public Transportation Brokerage Research Project	Illinois Transportation Research Center	8/1/02	1/31/04
Sue McNeil	Highway Economic Requirements System	Battelle Memorial Institute	9/23/02	12/31/02
Sue McNeil	Feasibility Study Evaluating the Effectiveness of CSW Interventions	National Institute for Occupational Safety & Health	5/30/02	9/30/02
Siim Soot	Outer Circumferential Land Use Study	S.B.Friedman & Company	9/1/02	2/28/04
Sue McNeil	Making CTA More Competitive as It Moves into the 21st Century	Massachusetts Institute Technology	7/1/02	10/9/02
Piyushimita Thakuriah	Low Income Worker Accessibility: A National Partnership Initiative	Community Transportation Assoc of America	7/1/03	6/30/04
Kazuya Kawamura	Upper Midwest Freight Corridor Study	Midwest Regional University Trans Center	8/15/03	10/14/04
Sue McNeil	Eisenhower Transportation Fellowship	National Highway Institute	1/1/04	1/31/04
Sue McNeil	Technology Transfer for Asset Management in Transportation	American Association of State Highway and Transportation Officials	9/1/02	8/31/03
Jung-Taek Lee	MUTCD 2000 Training Course Development	Chicago Department of Transportation	1/1/03	6/30/03
Sue McNeil	Making The Chicago Transit Authority (CTA) More Competitive in the 21st Century	Massachusetts Institute Technology	10/10/02	10/9/05
Joseph DiJohn	Halsted Street Station Market Demand Analysis	South Campus Development Team	11/1/02	12/31/02
Joseph DiJohn	Metropolitan Transportation Support Initiative	Illinois Department of Transportation	6/23/03	6/30/05
Joseph DiJohn	Metropolitan Transportation Support Initiative	Illinois Department of Transportation	5/17/02	6/30/03

Appendix C. Courses

Table 3. Courses Taught Fall 2002

COURSE NUMBER	COURSE NAME	INSTRUCTOR
UPP 503	Data Analysis	Kazuya Kawamura
UPP 560	Urban Transportation I: Introduction	Kazuya Kawamura
UPP 565	Transportation Project Funding & Finance	Steve Schlickman
UPP 565	Urban Mass Transit Technologies	Michael Shiffer
UPP 594/ CEMM 594	Infrastructure Management	Sue McNeil

Table 4. Courses Taught Spring 2003

COURSE NUMBER	COURSE NAME	INSTRUCTOR
UPP 561	Urban Transportation II: Policy and Methods	Vonu Thakuriah
UPP 562	Urban Transportation III: Laboratory	Kazuya Kawamura
UPP 513	Data Analysis for Planning and Management II	Vonu Thakuriah
UPP 563	Transportation Management	Joseph DiJohn
UPP 565	Transportation Planning and Land Use	Sue McNeil

Table 5. Employee Training

NAME	PRESENTER
“Development of Digital Nodal Video for Facility Evaluation: A Training Course for CTA,” August 2002	Laxmi Ramasubramanian, Sue McNeil and students

Table 6. Employer Awareness of Programs

NAME	PRESENTER
“Offering an Inexpensive Employee Benefit: Setting Up and Managing an Employee Transportation Program Using IRS Section 132(f) Commuter Choice Benefits,” Professional development workshop for employers, February 21, 2003	Karin Allen
“Bus Rapid Transit: A New Commuter Choice for Your Community,” Webinar for transit professionals, June 12, 2003	Karin Allen

Appendix D. Outreach Activities

Table 7. Student Orientation FALL 2002

DATE	TITLE	SPEAKER
August 30	UTC Orientation for ALL Students	
September 6	Overview of Computing	George Yanos
September 13	Computing Cont'd	George Yanos
September 20	<i>Fortuitous Failures or Missed Opportunities...</i>	Symposium
September 27	Overview of Projects	Faculty & Staff (Sriraj, Joe, Shamus)
October 4	Overview of Projects	Faculty & Staff (Karin, Siim, Jim)
October 11	Skills	Lise Dirks
October 18	Skills Cont'd	Lise Dirks
October 25	Skills Cont'd	Lise Dirks
November 1	Skills Cont'd	Lise Dirks
November 8	Seminar on Modeling	Guests from Chile And meeting with CATMUG-Chicago Area Transportation Modeling Users Group
November 15	Data Sources Tools	Paul Metaxatos Jung Taek Lee
November 22	Getting published and paper presentations Networking	Sue McNeil Gabrielle Brown

Table 8. Seminar Series

DATE	TITLE	SPEAKER
February 14	<u>Access to Jobs: A Transportation Perspective</u>	Vonu Thakuriah, Associate Professor UTC and UPP Program
February 21	<u>Census Transportation Planning Package 2000 Fact or Fiction?</u>	Ed Christopher Federal Highway Administration
February 28	UTC Retreat	
March 7	<u>Chicago's Information and Physical Coordination Study: Transit Transfers from the Customer's Perspective</u>	John Allen RTA
March 14	<u>Transportation Information Clearinghouse - Year One</u>	Karin Allen Research Transportation Program Manager UTC
March 21	Spring break	
March 28	<u>Why you should consider a Public Transportation career at the Illinois Department of Public Transportation?</u>	David Spacek and Neil Ferrari Division of Public Transportation Illinois Department of Transportation
April 4	<u>Everything you wanted to know about the National Household Travel Survey</u>	Ed Christopher Federal Highway Administration
April 18	<u>Infrastructure Management Decision Making Under Performance Model Uncertainty</u>	Pablo Durango-Cohen, Assistant Professor Civil and Environmental Engineering Northwestern University
April 25	<u>Patterns of Transportation-Related Household Expenditures: the Effects of Income and Housing Subsidies</u> <u>Public Transportation Information Systems: Application to Labor Market and Transportation Problem</u>	Yihua Liao Sudeshna Sen

Table 9. Symposium

University of Illinois at Chicago Urban Transportation Center FALL SYMPOSIUM “Fortuitous Failures or Missed Opportunities: From Hindsight to Foresight” September 20, 2002 at the UIC Student Services Building, Racine and Harrison	
8:00 a.m.	Registration and Continental Breakfast
8:30 a.m.	Welcome: Sue McNeil , Professor and Director UTC Panel Discussion- “Looking Back- Lessons Learned” Moderator: Siim Sööt , Professor and Former Director, UTC Panelists: Larry Christmas , Former Executive Director NIPC, <i>Downtown Distributor Subway</i> Richard Wendy , Former Project Manager, <i>Circulator Light Rail Project</i> Sidney Mathias , State Representative and Former Mayor of Buffalo Grove, <i>North Central Commuter Rail</i> Charles Tokarski , County Engineer, DuPage County, <i>Fox Valley Freeway</i>
10:00 a.m.	Break
10:15 p.m.	Panel Discussion- “Looking Forward- Facing the Challenges” Moderator: Joe DiJohn , Research Professor and Director METSI Panelists: Frank Kruesi , President of CTA, <i>Circle Line and Orange Line Extension</i> Cheri Heramb , Deputy Commissioner Administration and Planning CDOT, <i>Clinton Street Corridor Central Area Bus Rapid Transit</i> Richard Bacigalupo , Executive Director RTA, <i>Northwest Corridor</i> Philip Pagano , Executive Director Metra, <i>Extensions and Outer Circumferential Commuter Rail</i>
12:00 pm	Lunch
12:30 p.m.	Luncheon Introduction: Robin Hambleton , Dean College of Urban Planning and Public Affairs Keynote Speaker: Mark Pisano , Executive Director, Southern California Association of Governments “Challenges of Implementing the Alameda Corridor”
1:30 p.m.	Discussion with Panelists and Audience Moderator: John McCarron, Vice President, Metropolitan Planning Council
3:00 p.m.	Adjourn

Appendix E. Publications and Presentations

Journal Papers

- Pagano, AM; Metaxatos, P; King, M., “Effect of Computer-Assisted Scheduling and Dispatching Systems on Paratransit Service Quality,” *Transportation Research Record*, No 1791, pp 51-58, 2002.
- Thakuria, P., Sacks, J., and B. Park, “Statistically-Based Validation of Computer Models in Traffic Operations and Management.” *Journal of Transportation and Statistics*, Vol. 5, Issue 1, 2002
- Antov, D; and Soot, S, “Toward Improved Traffic Safety: Road Use Perception and Behavior in Estonia,” *Transportation Research Record*, No. 1818, pp 1-6, 2002.
- Amekudzi, A., Sue McNeil, and Haris N. Koutsopoulos, “Assessing Extrajurisdictional and Areawide Impacts of Clustered Brownfield Developments,” Volume 129, Issue 1, *Journal of Urban Planning and Development*, March 2003, pp. 27-44.
- Metaxatos, Paul, and Anthony Pagano, “Measuring Intercity Bus Transportation Unmet Needs,” 82nd Transportation Research Board Annual Meeting, Washington, D.C., 2003. Paper to appear in *Transportation Research Record* in 2003.
- Shiffer, Michael, Arnab Chakraborty, Beth Donahue, Graham Garfield, Ramakrishnan Srinivasan and Sue McNeil, “A Spatial Multimedia Representation of the Chicago Transit Authority’s Rail Infrastructure,” paper presented at the 82nd Annual Meeting of the Transportation Research Board, January, 2003. Paper to appear in *Transportation Research Record* in 2003.
- Norbert Delatte, Shen-en Chen, Nitin Maini, Neville Parker, Anil Agrawal, George Mylonakis, Kolluru Subramaniam, Akira Kawaguchi, Paul Bosela, Sue McNeil, Richard Miller, “The Application of Nondestructive Evaluation to Subway Tunnel Systems,” paper presented at the 82nd Annual Meeting of the Transportation Research Board, January, 2003. Paper to appear in *Transportation Research Record* in 2003.
- Sriraj, PS, Shaumik Pal, Libby Ogard and Sue McNeil, “Evaluation of Private Sector Asset Management Practices” paper presented at the 82nd Annual Meeting of the Transportation Research Board, January, 2003. Paper to appear in *Transportation Research Record* in 2003.
- Lange, Deborah, and Sue McNeil, “Clean it and they will come? Defining Successful Brownfield Development,” to appear in the *ASCE Journal of Urban Planning and Development* in 2003.
- Lange, Deborah, and Sue McNeil, “Brownfield Development: Tools for Stewardship,” to appear in the *ASCE Journal of Urban Planning and Development* in 2003.

Book Chapters

- Thakuria, P. Commercial Motor Carrier Operations in Northeast Illinois Region: Impacts on Land Use Trends Since 1970. In *Suburban Sprawl Private Decisions and Public Policy*. Eds. Wim Wiewel and Joseph J. Persky. New York: M.E. Sharp, Inc, 2002. 115-134.
- DiJohn, Joseph, Authored Chapter 5- “Transportation in the Chicago Metropolitan Region Since 1970” In *Suburban Sprawl Private Decisions and Public Policy*. Eds. Wim Wiewel and Joseph J. Persky. New York: M.E. Sharp, Inc, 2002.
- McNeil, Sue, “Urban Transportation and Community,” in Christensen, Karen and David Levinson (General Editors). (2003). *Encyclopedia of Community: From the Village to the Virtual World*. Thousand Oaks, CA: Sage.
- McNeil, Sue, “Project Selection from Alternatives,” *The Engineering Handbook*, A CRC Press Inc. Publication, with Chris Hendrickson. 1995, revised 2003.

Conference Papers

- Lee, Jung-Taek, “Crash Data Based Freeway Incident Response Time Model,” Proceedings of the ASCE Conference on Applications of Advanced Technology in Transportation, Boston, August, 2002.
- Buchheit, Rebecca, James Garrett, Sue McNeil, and Margaret Chalkline, “Automated Procedures for Improving the Accuracy of Sensor Based Monitoring Data,” Proceedings of the ASCE Conference on Applications of Advanced Technology in Transportation, Boston, August, 2002.
- Sunkpho, Jirapon, James Garrett and Sue McNeil, “A Framework for Field Inspection Support Systems Applied to Bridge Inspection,” Proceedings of the ASCE Conference on Applications of Advanced Technology in Transportation, Boston, August 2002.
- Lange, Deborah, Sue McNeil and Chris Hendrickson, “The Brownfields Center: An Interdisciplinary Center that Links Academia, Practitioners, and the Community,” Proceedings AEESP/AEE Education and Research Conference, University of Toronto, August 10-14, 2002.
- McNeil, Sue, David Duggins, Christophe Mertz, Arne Suppé, and Chuck Thorpe, “A Performance Specification for Transit Bus Side Collision Warning System” The 9th World Congress on Intelligent Transport Systems, Chicago, Illinois, October 14-18, 2002.
- Thakuriah, P and Jung-Taek Lee, “An Evaluation of Alternative Signal Control Strategies.” In 9th World Congress on ITS CD-ROM. October, 2002.
- Metaxatos, Paul, “Computer-Aided Scheduling and Dispatching System: Impacts on Operations and Coordination,” 9th World Congress on Intelligent Transportation Systems, Chicago, IL, 2002.
- Pytel, Eve and Sue McNeil, “Deriving Travel Costs with Web-based Travel Information Centers for Various Travel Patterns,” paper presented at the 82nd Annual Meeting of the Transportation Research Board, January 2003.
- Thakuriah, Vonu, *”Application of Probabilistic Linkage to Commercial Motor Vehicle and Carrier Data.” Presentation made in the Transportation Research Board Annual Conference, January 13, 2003
- Kawmura, Kazuya, Anusha Seetharaman and Saurav Bhatta. ”Economic Benefits of Freight Policy relating to the Trucking Industry: An Evaluation of the RTP Freight Policy for the Chicago Six County Region”. Transportation Research Board Annual Meeting, Washington, D.C., January 2003.
- Kawmura, Kazuya, “Perceived Benefits of Congestion Pricing for Trucks”. Transportation Research Board Annual Meeting, Washington, D.C., January 2003.
- Metaxatos, Paul, “Estimation and Accuracy of Origin-Destination Highway Freight Weight and Value Flows.” 82nd Transportation Research Board Annual Meeting, Washington, D.C., 2003.
- Thakuriah, Vonu, “Markov Chain Monte Carlo: Application for Imputation of Transportation Databases.” Presentation made in the Transportation Research Board Annual Conference, January 14, 2003.
- Thakuriah, P. and Jung-Taek Lee, “Application of Probabilistic Linkage to Commercial Motor Vehicle and Carrier Data.” 82nd Transportation Research Board Annual Meeting, Washington, D.C., 2003.

Reports

- DiJohn, Joseph, Coauthored- “Compliance Review of IDOT Suspensions: An Analysis of Disciplinary Actions Among Illinois Department of Transportation Maintenance Employees”. 2003
- DiJohn, Joseph, Coauthored- “Halsted Street Metra Station Market Study”. 2003
- Pagano, A., P. Metaxatos, E. Holeman, V. Mora, A. Morreale and K. Stanis (2003). *Strategic Plan: Computer Assisted Scheduling and Dispatching System*. Final Report. Illinois Department of Transportation. May 2002

- Metaxatos, P. (2002). International Trade Traffic Study (Section 5115): Measuring the Ton-miles and Value-miles of International Trade Traffic Carried by Highway for Each State: Estimation of Origin-Destination Flows and Confidence Intervals. Final Report. U.S. Department of Transportation, Bureau of Transportation Statistics. March 2002.
- “Evaluation of Near-Transportation Private Sector Asset Management Practices,” Final Report to Midwest Regional University Transportation Center, University of Wisconsin, Madison, Project 01 – 02, November, 2002, McNeil, Sue, P. S. Sriraj, Shaumik Pal and Libby Ogard

Technical Papers

- Soot, Siim, Joe DiJohn and Ed Christopher. Commuting in the Chicago Area: Emerging Trends, UTC Technical Paper, 2003.
- Soot, Siim, Vonu Thakuriah, Haidong Zhu and Jiangping Zhou
- Job Access: Two Contrasting Places, Chicago and Los Angeles, UTC-JARC Technical Paper, 2003.
- Thakuriah, P., J. Lee and S. Niumpradit. (2003). *Development, Testing and Evaluation of Intelligent Databases for Commercial Motor Vehicle Safety*. U.S Department of Transportation, BTS, Grant Number DTTS-00-B003-IL Final Report.
- Niumpradit, S. and P. Thakuriah (2002). *The Economic and Aggregate Productivity Benefits of Intelligent Transportation Systems*. Report to the Metropolitan Transportation Support Initiative, University of Illinois at Chicago and Illinois Department of Transportation. Thakuriah, P., J. Lee and others (2002).
- Thakuriah, P. J. Lee and others. (2002). *Evaluation of Alternative Signal Control Strategies in the City of Chicago* Final report to the Chicago Department of Transportation.
- Soot, S., P.S. Sriraj and P. Thakuriah (2002). *A Survey of Users of Job Access Reverse Commute Funded Transportation Services*. Report to the Federal Transit Administration, U.S. Department of Transportation.
- Other Publications
- Sööt, S., Sriraj, P.S., Thakuriah (Vonu), P. (2002) A User Survey of Transportation Services Funded by the Job-Access-Reverse-Commute Program, Prepared for Federal Transit Administration.
- Sriraj, P. S., Ortega, J., Thakuriah, P. (2003) Spatial Data Integration Using a Cross-Sectoral Approach, submitted for publication.
- Khisty, C. J., Sriraj, P. S., Sen, S., (2003) A Fresh Look At Soft Systems Methodology And Its Applications In Transportation Planning, submitted for publication.
- Soot, Siim, A Decade of Improved Traffic Safety: Perception and Behavior, National Meeting, Association for the Advancement of Baltic Studies, Baltimore MD, 2002.

Presentations

- Allen, Karin, “Presenter, UIC Urban Transportation Center Seminar Series “Transportation Information Clearinghouse – Year One, “ February 2003
- Allen, Karin, “Panel speaker, UIC CUPPA and Chicago Metropolis 2020 “New Explorations of a Jobs-Housing Mismatch in the Chicago Region,” March 2003
- DiJohn, Joseph, “Job Access Reverse Commute Activities” to Chicago Area Transportation Study (CATS) Community Mobility Task Force, August 2002.
- DiJohn, Joseph, “Transit Privatization” to Illinois Public Transit Association Fall Conference, September 2002.
- DiJohn, Joseph, “Looking Forward: Facing Challenges”, Moderator, UTC Fall Symposium, September 2002.

- DiJohn, Joseph, “Compliance Review of IDOT Suspensions” to the Illinois Department of Transportation, October 2002.
- DiJohn, Joseph, “Impact of Freight on the Chicago Region” to the Greater North Michigan Avenue Association, November 2002.
- DiJohn, Joseph, “Halsted Street Metra Station Market Study” to Metra Commuter Rail Division of the RTA and South Campus Development Team, December, 2002.
- DiJohn, Joseph, “Transportation Information Clearinghouse” to Workforce Boards of Metropolitan Chicago, January 2003.
- DiJohn, Joseph, “Transportation Information Clearinghouse” to CATS Community Mobility Task Force, March, 2003.
- DiJohn, Joseph, “Job Access Reverse Commute Transportation” to Work, Welfare and Families, March 2003.
- DiJohn, Joseph, “History of the RTA” to RTA Staff Brown Bag Lunch, May 2003.
- DiJohn, Joseph, “Statewide Transportation Funding Database” to Interagency Transportation Coordinating Committee, June 2003.
- Kawamura, Kazuya, “Freight Planning in Chicago: Gaps and Opportunities”, Presentation to visitors from Trier University, Germany, October 2002.
- Kawamura, Kazuya, "Developing a Plan from Bottom Up: A Case Study of Public Involvement", Center for Transportation Planning Research, Tokyo, Japan, May 2003
- Kawamura, Kazuya, "Addressing Freight Transportation Needs: National, State, and Regional Perspective", Special Seminar at the Tokyo Institute of Technology, Tokyo, Japan, May 2003
- Kawamura, Kazuya, "Financing Transportation Projects in the U.S.: Federal, State, and Local Perspectives". Institute of Regional Economic Research, Fukui Prefectural University, Fukui, Japan, May 2003
- Kawamura, Kazuya, "Addressing Freight Transportation Needs in the US: National, State, and Regional Perspective" Special Seminar at Kyoto University, Kyoto, Japan, May 2003
- Kawamura, Kazuya, "Assessment of the Relationship between Vehicle Type Mix and the Benefit of Freight Projects". Third International Conference on City Logistics, Madeira, Portugal, June 2003
- Metaxatos, Paul, “Changes in the Spatial Distribution of Mobile Source Emissions due to the Interactions between Land-use and Regional Transportation Systems: A Framework for Analysis,” Conference on the Environment, University of Illinois at Chicago, April 9-10, 2003.
- Metaxatos, Paul, and Anthony Pagano, “State’s Approaches to Intercity Bus Funding Requirements,” 15th National Rural Public & Intercity Bus Transportation Conference, October 27-30, 2002, Huron, Ohio.
- McNeil, Sue, “Brownfields in Chicago,” Presentation to visitors from Trier University, Germany, October 2002.
- Misesk, Shamus, “Transit Planning in Chicago,” Presentation to visitors from Trier University, Germany, October 2002.
- Soot, Siim, “A Decade of Improved Traffic Safety: Perception and Behavior,” National Meeting, Association for the Advancement of Baltic Studies, Baltimore MD, 2002.
- Sriraj, P.S, “An Update on the UIC National JARC Program Evaluation: Report on the User Survey,” presented to the Community Mobility Task Force, CATS, Chicago, January 2003.
- Sriraj, P.S, “Statewide Transportation Planning Process and NEPA: Its Effectiveness, Issues and Solutions,” presented at the IESP Conference, April 2003.
- Sriraj, P.S, “Spatial Data Integration for Low-Income Worker Accessibility Assessment: A Case Study of the Chicago Metropolitan Area,” Accepted for Presentation at the Mid-Continent Transportation Research Symposium, Ames, Iowa, August 2003 (Co-Authors: Vonu Thakuriah, Juan Ortega).

- Sriraj, P.S, Analysis of the Environmental Justice Compliance of the Chicago Transit Authority, Accepted for Presentation at the Mid-Continent Transportation Research Symposium, Ames, Iowa, August 2003 (Co-Authors: Geoff Fruin, Sue McNeil).
- Thakuriah, Vonu, “Low-Income Worker Accessibility: Survey of JARC-Funded Transit in 23 Sites.” Invited presentation in Philadelphia, Community Transportation Association of America, May 21, 2003.
- Thakuriah, Vonu, “Spatial Accessibility to Economic Opportunities: Concepts, Measurement and Implications for Low-income Populations.” Invited presentation, Voorhees Center, 25th Anniversary Interpreting Neighborhood Change Conference, Chicago, April 4, 2003.
- Thakuriah, Vonu, *”An Evaluation of Alternative Signal Control Strategies.” Presentation made in the 9th World Congress on ITS, Chicago, IL, October 16, 2002.
- Thakuriah, Vonu, *”Cross Country Adoption of Intelligent Transportation Systems: The Case of Electronic Toll Collection Systems.” Presentation made in the American Collegiate Schools of Planning (ACSP) Conference, Baltimore, MD, November 23, 2002.
- Thakuriah, Vonu, “Data Linkage Issues: Some Considerations and Applications.” Invited colloquium in the Statistics Seminar Series of the U.S. Department of Transportation Bureau of Transportation Statistics.
- Thakuriah, Vonu, ”Intelligent Transportation Systems: Vehicular and Road technology for the Future.” Invited Presentation, Provost’s Cutting Edge Lecture Series, March 1, 2003.

Student Presentations

Transport Chicago, Chicago, June 6, 2003

- Ortega, Juan. Shaumik Pal. Audrey Wennink, “Productivity Benefits of a GPS Based Traveler Information System—a Case Study of the UIC Shuttle Bus System.
- Pena-Rivera, Norma, “An Alternative Taxonomy for Planning Support Systems”
- Sudeshna, Sen, “Decision Support Tools for Stakeholders Dealing with Low Income Accessibility
- Projects in the Chicago Metropolitan Region”
- Shin, Hyeon-Shic, “Conceptualization of a Methodology for Measuring Freight Mobility by Trucks.”
- Winsor, Jeromie, “Intenet Communities of Practice for Transportation Professionals”
- Zhu, Haidong. “Developing a Rail Service Interruption Model for CTA.”

Other Presentations

- O’Laughlin, Roseann. “Listening to the City-Town Meeting in New York City,” UPP Friday Research Forum,” January, 2003
- Pal, Shaumik, “Establishing Linkages between Asset Management and Intelligent Transportation Systems.” Web publishing, 2003
- Yihua Liao, “*Patterns of Transportation-Related Household Expenditures: the Effects of Income and Housing Subsidies,*” UTC Friday Seminar Series, April 25, 2003
- Sudeshna Sen, “*Public Transportation Information Systems: Application to Labor Market and Transportation Problem.*” UTC Friday Seminar Series, April 25, 2003

Appendix F. Service

UTC faculty were active participants in University and College committees. In addition they served on professional committees and local committees such as

- Business Leaders in Transportation Freight Planning Committee,
- CATS Community Mobility Task Force,
- CATS Intermodal Task Force,
- Greater North Michigan Avenue Association Transportation Committee.
- Illinois Transportation Research Committee,
- Metropolitan Planning Council Transportation Committee,
- Metropolitan Transportation Association, and
- Metropolis 2020 Freight Advisory Task Force.

Nationally, faculty and staff served on

- American Association of State Highway and Transportation Officials Asset Management task force,
- American Society of Civil Engineers, Infrastructure Management Committee
- Association for Commuter Transportation.
- Board on Infrastructure and the Constructed Environment (National Academy of Engineering),
- Bureau of Transportation Statistics Committees, and
- Highway Cooperative Research Program panels,
- National Transit Institute,
- Transit Cooperative Research Program panels,
- Transportation Research Board Committees
 - Asset Management Task Force
 - Conduct of Research
 - Freight Planning

Faculty also served in editorial roles, guest editor or as a member of the editorial board for:

- Transportation Research C: Emerging Technologies
- Journal of Infrastructure Systems
- Transport Policy
- International Journal of Transport Management
- Transportation Statistics

Appendix G. Center Awards and Honors

- **Roseann O'Laughlin**, scholarship to attend the National Trust for Historic Preservation's National Preservation Conference on September 30-October 5, 2003, in Denver, Colorado (July 2003)
- **Norma Peña-Rivera**, 2003 Eisenhower Graduate Fellowship from US DOT (July 2003)
- **Juan Ortega**, a Ph.D International Service Award from the University of Illinois at Chicago, which recognizes the international students who have distinguished themselves through volunteer service in the campus and Chicago communities. Ortega is the President-elect of the Rotary Club of Chicago for 2003-2004, a Rotary-sponsored service club for young men and women ages 18 to 30. (May 2003)
- **Audrey Wennink**, Phillip D. Peters Regional Planning Fellowship by the Northeastern Illinois Planning Commission (NIPC). She will be focusing her work as a Fellow this summer on Common Ground, the organization's long-range regional planning process. The Fellowship was established by NIPC in 1999 to honor the late Phil Peters, its former Executive Director.
- **Sudeshna Sen**, Chicago Chapter Women's Transportation Seminar (WTS)- Helene M. Overly Memorial Graduate Scholarship. She will receive the award at the WTS annual meeting June 4. (April 2003)
- **Norma Peña- Rivera**, George Krambles Transportation Scholarship Fund for the school year 2003. Peña-Rivera received an award worth \$2,500 and an Award Certificate. (April 2003)
- **Norma Peña-Rivera** 2002-03 Jack R. Gilstrap Scholarship by the American Public Transportation Foundation (APTF). The "Gilstrap" is one of the public transportation industry's top honors. The award of \$2,500 will be made at the APTF Annual Conference in Las Vegas in September. Norma also received special recognition for having received the highest score of this year's scholarship awards. (August 2002)
- **Norma Peña-Rivera** 2003 Eno Transportation Fellow (May 2003)

Appendix H. Recent Graduates

The Center graduated masters' students this past year. Two of these students are planning to continue with doctorate programs.

Table 9. Project Titles

NAME	DEGREE	DATE	THESIS OR PROJECT TITLE	ADVISOR	EMPLOYMENT
Ying Bao	MS, Civil Engineering	May 2003	Implementation of the Java-Based Inspection Framework for Bridge Field Inspection (Thesis)	Sue McNeil	URS Consulting, Pennsylvania
Larry Deeter	MUPP	December 2003	An Evaluation of Mass Transit Service to U.S. Airports (Project)	Sue McNeil	CTA
David Fronczk	MUPP	May 2003	When Will it Get Here? A Study of Transit Bus Reliability (Project)	Sue McNeil	Metra, Chicago
Arzmella Hammond	MUPP	December 2002	An Empirical Analysis of Transportation and Other Constraints faced by Welfare-to-Work Clients (Thesis)	Kazuya Kawamura	-
Eric Holeman	MUPP	December 2002	Evaluating Corridors for Bus Rapid Transit Service (Thesis)	Sue McNeil	CTA, Chicago
Denise Lea	MUPP	August 2002	A Campus for the People: Improving Pedestrian Facilities at the University of Illinois at Chicago (Project)	Sue McNeil	-
Yihua Liao	MUPP	May 2003	Patterns of Household Transportation Expenditures: the Effects of Income and Housing Subsidies (Thesis)	Vonu Thakuriah	PhD Program UIC
Fahim Mohammed	MUPP	August 2002	Transit Solutions for Low Income in Rural Illinois: A Model Based Approach (Thesis)	Sue McNeil	BTS
Victor Mora	MIS	December 2002	-	Anthony Pagano	-
Shaumik Pal	MUPP	May 2003	Asset Management and Intelligent Transportation Systems: Interactions and Synergies (Thesis)	Sue McNeil	Parsons, Chicago
Eve Pytel	MUPP	August 2002	Policy Implications of Alternative Trip Definitions (Thesis)	Sue McNeil	TranSystems, Chicago
Aravind Rajasekharan	MBA	May 2003	-	-	-
Tanu Sonkhya	MS Civil Engineering	December 2002	Detailed Solution Properties of a Large Scale Combined Travel Forecasting Model (Thesis)	David Boyce	Citilabs, Oakland, CA
Sudeshna Sen	MUPP	May 2003	Public Transportation Information Systems: Application to Labor Market and Transportation Problems. (Thesis)	Vonu Thakuriah	PhD Program University of Texas.
Avinash Sinha		May 2003	Modeling the Effect of Occupation, Industry and Spatial Characteristics on Job Start Times (Thesis)	Vonu Thakuriah	
Haidong Zhu	MUPP	May 2003	Factors Affecting Travel Time Changes between 1900 and 2000: A Study of Metropolitan Chicago (Thesis)	Vonu Thakuriah	Maricopa Association of Governments, Phoenix, AZ