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<u>UTCM Transit Research</u>

Improved Demand-Response Productivity and Service Quality Through Dispatch Strategies

Suzie Edrington - \$45,000

The ability of transit agencies to staff dispatch effectively and use technology to its full advantage is critical in responding proactively as service changes occur and in making sound routing decisions. Sound routing decisions result in improved productivity and cost-effective service delivery. A modest 3% improvement in service productivity would save the average rural demand response transit agency approximately \$65,000 annually. This project focused on improving productivity while maintaining service guality. Researchers collected data from 42 demand response rural and small urban transit agencies regarding operations and use of technology. Case studies of five representative agencies focused on: 1) dispatcher goals and objectives, 2) dispatch-driver policies and procedures, 3) team responsibilities and expectations, and 4) reports and material collection. The resulting guidebook describes the impact of maximizing productivity, development of policies and procedures that affect productivity, service delivery strategies that impact productivity, dispatch performance measurement, an



assessment tool for productivity elements of dispatch, and steps to implement a productive dispatch operation. The guidebook is available via the UTCM website, http://utcm. tamu.edu. (cont. on p. 4)

Director's Message

In addition to our regular overview of center activities, this issue of *Upwardly Mobile* focuses on UTCM's transit programs.

Rural demographic trends indicate a growth in the population share for those over age 65, coupled with a decrease in population density in many rural areas. At the same time, the 2010 Census has



FOCUS ON TRANSIT

Melissa S. Tooley, Center Director

shown there is substantial population growth in some rural counties, particularly in counties surrounding major metropolitan areas. Both demographic trends suggest an increase in demand for rural transit services. Yet resources to provide rural transit are limited.

The UTCM is actively engaged in research, education and technology transfer to assist rural transit providers in improving service efficiency and effectiveness within limited resources. UTCM transit *research* is addressing basic problems, leading to efficient public transit systems for rural populations, including disadvantaged, aging and disabled persons as well as increased efficiency of services in small urban areas. UTCM's transit *education* programs are developing innovative courses and practical training to recruit and train the public transportation workforce. And UTCM's *technology transfer* is leading the way in disseminating data, technology and research results to policy-makers, transit agencies, and planners, while providing networking, training and development to help the workforce implement new technologies.

More information on each of the projects listed in this issue, including final reports on completed projects, may be found on the UTCM website, utcm.tamu.edu.

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Improving the Quality of Life by Enhancing Mobility











Transit Management Certificate Program Linda Cherrington - \$121,000 (\$75,000+\$46,000)*

A successful Transit Management Certificate Program can provide the leadership training needed for the current generation of public transportation managers in rural and small urban areas in Texas and the academic preparation needed to attract career professionals into the industry in the future. This project is undertaking the following tasks: (1) Review the national transit certificate programs to identify best practices and lessons learned. (2) Identify the most important elements of a successful certificate program. Project members will confer with academic departments and schools at Texas A&M University, TxDOT's Public Transportation Division and transit agency representatives to gain a variety of perspectives. (3) Develop the Transit Management Certificate Program in cooperation with TxDOT, stakeholders, and the academic departments and schools. (4) Seek approval from all appropriate cognizant agencies and academic departments. (5) Facilitate delivery of the first offerings for the Transit Management Certificate Program. (6) Together with academic advisors, determine opportunities to expand the certificate program to other Texas A&M affiliated universities or community colleges that may be more geographically accessible to rural and small urban transit.

A Special Topics Course on Intelligent Transportation Systems for the Zachry Department of Civil Engineering of Texas A&M University

Kevin Balke - \$64,260 (\$47,421+\$16,839)*

Intelligent Transportation Systems (ITS) blend emerging detection/surveillance, communications, and computer technologies with transportation management and control concepts to improve the safety and mobility of the surface transportation system, including transit. Individuals responsible for developing, deploying, and managing ITS projects need a solid foundation not only in transportation engineering concepts and principles but also systems engineering, communications, and technology. This project developed a special topics graduate-level survey course on the planning, design, and implementation of ITS projects for transportation management. This course teaches the concepts to plan, design, and implement an ITS project that can be deployed in the field. Course topics include: an overview of ITS technologies and applications for advanced transportation management; the application of system engineering concepts in the planning and design of advanced ITS projects; techniques and strategies for managing and deploying ITS projects; design and application of advanced telecommunication techniques for ITS deployments; and techniques and tools for evaluating ITS projects and technologies. The curriculum includes a review of the nine federal ITS initiatives, including the transit initiative Mobility Services for All Americans. 🗞

Completed UTCM Projects (since 02.01.11)

More information and final reports on completed projects can be found by clicking on the **Projects** tab on the UTCM website, http://utcm.tamu.edu.

RESEARCH

"Impacts of Funding and Allocation Changes on Rural Transit in Texas" • S Edrington • 01.01.10 -02.28.11 • \$75,000 (\$65,000+\$10,000)*

"Development of a Short-Term Prediction Model for Commercial Vehicle Crossing Times" • R Rajbhandari and D Kang • 11.01.09 - 03.31.11 • \$86,000 (\$53,500+\$32,500)*

"Best Practices and Outreach for Active Traffic Management" • B Kuhn • 01.01.10 - 4.30.11 • \$122,000

"Examining Challenges, Opportunities and Best Practices for Addressing Rural Mobility and Economic Development under SAFETEA-LU's Coordinated Planning and Human Services Framework" • J Martin, C Giusti, E Dumbaugh and L Cherrington • 05.01.08 -05.31.11 • \$168,480 (\$100,000+\$68,480)*

"Evaluating the Use of Transfers for Improving Rural Public Transportation Systems" • L Quadrifoglio and S Edrington • 01.01.10 - 05.31.11 • \$122,690 (\$80,000+\$42,690)*

EDUCATION

"A New Graduate Course in Transportation Infrastructure Finance in the Civil Engineering Department at Texas A&M University" • I Damnjanovic, S Vadali and E McTigue • 01.01.10 - 02.28.11 • \$65,820 (\$60,000+\$5,820)* Final Report

"Transit Management Certificate Program" • L Cherrington and B Welch • 01.01.10 - 05.31.11 • \$121,000 (\$75,000+\$46,000)*

TECHNOLOGY TRANSFER

"Facilitating Outreach Programs for Minority Students in Rural South Texas" • D Jasek • 01.01.09 -02.28.11 • \$137,274 (\$29,000+\$108,274)* Final Report

"Transportation Plan Repository and Archive" • J Overman and S Tucker • 01.01.10 - 2.28.11 • \$48,233 (\$45,000+\$3,233)* Final Report

"The Transportation Economy: Past & Future" • R Cole and D Dennis • 01.01.09 - 05.31.11 • \$87,595 (\$50,000+\$37,595)* 🎓

transportation-related careers. The students, from a variety of disciplines across Texas A&M University, the Texas A&M Health Science Center, and Texas Southern University, represented some of the best and brightest in the SWUTC and UTCM programs.

Appel was appointed RITA administrator in 2009 and coordinates the US DOT's research, education and technology transfer programs, including the University Transportation Centers (UTC) Program. TTI is home to SWUTC and UTCM — two of the nation's 60 UTCs — and Appel traveled to Texas to visit these facilities and people firsthand.

Appel's tour of TTI, UTCM and SWUTC included viewing a crash test at TTI's Riverside Campus, and a ride in the Institute's instrumented vehicle designed for human factors research. But he especially enjoyed the chance to visit directly with the graduate students over lunch.

"Students are the ultimate payoff," SWUTC Director Dock Burke told Appel about the UTC program's impact. UTCM Director Melissa Tooley agrees. "From enhancements to the research that goes into TTI's Urban Mobility Report to UTCM's leading role in the discussion on mileage-based user fees, funding from



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* Total project value (UTCM funds + leveraged funds)

Peter Appel listens to UTCM and SWUTC graduate students as they overview their research topics and experience.

RITA has helped establish ongoing initiatives that are making a difference in solving transportation problems," she told Appel. "And our students are on the front lines of the research that goes into these initiatives. Their UTC experiences develop their expertise, and they leave our programs uniquely prepared to address current transportation issues."

During the luncheon, each student briefed the Administrator on his or her research topic and experience. Many students also asked questions regarding DOT priorities and initiatives in their research areas.

Appel in turn encouraged the students to pursue the Presidential Management Fellows Program in he U.S. Office of Personnel Management, which offers internships with DOT and other federal agencies. "This program successfully prepares transportation students for federal careers, and placement after completing the program is very high," he noted. "And we need you," said Appel. "You are going to solve the transportation problems we face today. Not me and my generation — you." 🗞





(cont. from p. 1)

Transit Services for Sprawling Areas with Relatively Low Demand Density: A Pilot Study in the Texas **Border's Colonias**

Luca Quadrifoglio - \$76,100 (\$75,000+\$1,100)*

The colonias along the Texas-Mexico border are one of the most rapidly growing areas in Texas. Because of the relatively low income of the residents and an inadequate availability of transportation services, the need



for basic social activities for the colonias cannot be properly met. The objectives of this study are to have a better comprehension of the status quo of these communities, to examine the potential demand for an improved transportation service, and to evaluate the capacity and optimum service time interval of a new demand

responsive transit "feeder" service within one representative colonia, El Cenizo. The authors present a comprehensive analysis of the results of a survey conducted through a questionnaire to evaluate the existing travel patterns and the potential demand for a feeder service. The results from the subsequent simulation analysis showed that a single shuttle would be able to comfortably serve 150 passengers/day and that the optimal headway between consecutive departures from the terminal should be between 11-13 minutes for best service quality. This exploratory study should serve as a first step towards improving transportation services within these growing underprivileged communities, especially for those with demographics and geometry similar to the target area of El Cenizo.

Examining Challenges, Opportunities and Best Practices for Addressing Rural Mobility and Economic Development under SAFETEA-LU's Coordinated Planning and Human Services Framework

June Martin - \$168,480 (\$100,000+\$68,480)*

In response to changes in federal requirements for rural transit planning, the Texas State Legislature and the Texas Department of Transportation have recently developed coordinated transit and human services plans for 24 planning regions in the State of Texas. This study evaluates both the processes that have been adopted throughout the state, as well as the types of outcomes that have emerged. Having engaged in perhaps the nation's most comprehensive approach to meeting the revised federal requirements, the Texas experience in developing coordinated transit and human service plans is particularly useful for identifying opportunities, barriers, and best practices to coordinated rural transit planning, and thus for filling a major gap in the available professional guidance.

Nationwide Examples of State and Local Funds for **Mass Transit**

Linda Cherrington - \$50,000

One of the transportation challenges facing Texas is the identification of adequate funding for mobility projects. The chairman of the Texas Senate Committee on Transportation and Homeland Security requested the Texas Transportation Institute to update previous research on national examples for funding regional transit and to provide additional information on regional rail projects. The research is presented in this paper documenting nationwide examples for funding mass transit and regional rail. The research findings provide background information for members of the Texas Senate Committee as they consider and make decisions for funding mass transit in Texas.

Multiple Depot Vehicle Routing with Applications to Paratransit and Rural Transportation

Swaroop Darbha - \$111,963 (\$80,000+\$31,963)*

This project considers a basic problem that is commonly encountered in transportation: given a set of vehicles, possibly starting from different depots, and set of locations where passengers need to be picked up, find a route for each vehicle such that every location is served by some vehicle and the total cost of serving the location is a minimum among all possible allocations and sequencing of locations to the vehicles. It is required that the vehicles return to the depots after servicing the locations. In this project, we are developing algorithms to feasibly address this problem in real time with constraints on how far the found solution is from the optimal solution. Results will form the basis for tackling more complicated problems, such as demand responsive routing of vehicles, which is common in paratransit and rural transportation applications.

Impacts of Funding and Allocation Changes on **Rural Transit in Texas**

Suzie Edrington - \$75,000 (\$65,000+\$10,000)*

Funding among Texas rural transportation districts has undergone rapid and significant change over the past five years. First, under SAFETEA-LU, the FTA committed to increased rural funding. At the same time, TxDOT implemented a revised "needs plus performance" based method for distributing both federal and state rural funds among providers. The method resulted in a significant redistribution of funding among providers; some were programmed to lose half of their FY2004 funding level, while others were slated for increases exceeding 300%. The 2010 national census will introduce another point of discontinuity in funding as population and land area, the two "needs" factors in the current funding allocation formula, will be assigned to either enlarging or emerging urbanized areas

in several rural areas. Modification to the funding allocation formulae is almost certain at that point. This project will provide rural transit operators, TxDOT and elected officials with the results of the increased investment and redistribution of rural transit funds over the last five years. This information will be critical when considering future state funding levels and funding allocation formula changes.

Evaluating the Use of Transfers for Improving Rural Public Transportation Systems

Luca Quadrifoglio - \$122,690 (\$80,000+\$42,690)*

Due to widely dispersed population density in large suburban/rural areas, conventional fixed route transit services hardly satisfy the travel needs of residents of these areas. Demand responsive transit (DRT) systems have flexible routes and schedules that can provide curb-to-curb/ door-to-door services to better meet the needs of rural areas. However, rural DRT services are still extremely costly to operate. In this project we consider a variation of the regular demand responsive transit system which adopts the practice of transfers to reduce operating costs. This project evaluates the effect of different transfer policies by developing a simulation model of several plausible scenarios, based on data from Houston METRO and other rural transit agencies across Texas. This study will provide decision makers and DRT agencies with information for innovative operating practices to improve the performance and cost efficiency of rural public transportation systems.

Examining Long Distance Express Buses as an Extension of and Feeder to Passenger Rail Systems

Laura Higgins - \$82,000

One of the mobility challenges facing Texas and other highpopulation states in the coming years is the rising travel demand along major intercity travel corridors. Increased passenger rail service may help to absorb some of the travel demand from crowded highway and air travel corridors, but service is cost-prohibitive to develop over very long distances. This project explored the potential of using express intercity bus service as an alternative to and an extension of passenger rail service, thus providing a similar type of higher-speed, limited-stop service over long distances with lower development costs than rail. (See Spotlight on Research, right). 🏊

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Rail Systems

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SPOTLIGHT ON RESEARCH **Express Buses Improving the Options for Getting from Here to**

Project Title: Examining Long Distance Express Buses as an Extension of and Feeder to Passenger

Principal Investigator: Laura Higgins, (Associate Research Scientist, Human Factors Group, TTI)



UTCM Researcher Laura Higgins

Sixty years ago, if you took a trip, you were likely to board a bus or a train. But in the last half century, those modes have been eclipsed by the convenience of cars and commercial airplanes. And as demand continues to grow, many roads and air routes will not be able to keep up.

"In the coming years, we will see some major ground and air travel corridors in the U.S. exceeding their capacity," says Laura Higgins, Associate Research Scientist at Texas Transportation Institute. "That means we need to find more ways to move people and goods efficiently between cities and



Higgins recently completed a UTCM study examining one method to meet the growing need for more transportation options. "Intercity bus service is a growing transit market for the first time in decades," she says. That's due in large part to the emergence of express intercity bus services like Megabus (covering

states from Minnesota to North Carolina to Maine) and the Northeast's BoltBus that provide nonstop or limited-stop service between city pairs at low prices.

Higgins's research shows that both passenger rail and express bus service have the potential to shift some travel demand from highway and air travel corridors that are projected to reach or exceed capacity during the next 40 years. In addition, they may help to satisfy what is likely to be a growing need for transportation service in less populated areas.

These alternative transit modes are exploring ways to make transit more accessible and appealing to a wider market. Intermodal connections, fare and schedule coordination, frequent and on-time service, targeted marketing, and onboard amenities are some of the strategies being employed to attract travelers who might otherwise select other modes. Some rural providers are beginning to add fixed routes to connect population centers within a region, both to attract commuters to transit service and to accommodate larger numbers of elderly and disabled riders needing transportation to medical appointments.

The trend toward express routes in intercity transit is likely to produce more frequent and ontime service between major cities, and to increase the number of people choosing to ride transit for intercity trips. The trade-off will be an increased need for intermodal and parkand-ride facilities at intercity transit stops, as well as for local transit to provide connecting service to the intercity system, whether that system is express bus or passenger rail. 🗞





Facilitating Creation of Rural Transit System Technology User Groups

Suzie Edrington - \$45,487 (\$36,000+\$9,487)*

Technology to support rural and small urban dispatch transit operations has advanced in recent years, incorporating automated dispatch/schedul

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> (AVL) systems. However, cost as well as staff expertise required to run these systems sometimes delay their implementation. Two major pieces of federal

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legislation have helped address

the cost issue, providing transit agencies financial assistance for capital purchases - the 2005 Safe Accountable Flexible Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU), and the 2009 American Rehabilitation and Recovery Act (ARRA). Many of the agencies in Texas have been able to purchase some or all of the technologies with help from SAFETEA-LU and ARRA, but they may not know how to put it to best use, or how best to support their staff in the transition from manual to electronic systems. This project is helping Texas' rural and small urban transit agencies gain expertise to exploit these technologies. Researchers completed an inventory of the specific technologies in use by agencies across Texas and shared this information with the transit districts. The research team then hosted a panel discussion on technology implementation at TxDOT's semi-annual Transit Providers Meeting in the summer of 2010. Since then, building on the UTCM's Transit Leadership project, transit agencies have establish informal peer groups to exchange experiences in implementing technology.

Regional Coordination Workshop

John Overman - \$77,820 (\$72,820+\$5,000)*

There is a demonstrated need for outreach, education, training and technology transfer to public transportation providers, rural transit districts, mobility managers, councils of governments and staff involved in regional human service transit coordination. This project addresses those needs by providing training and technology transfer based on recent research efforts at various institutions to improve regional coordination and transit services. The Regional Coordination Workshop served as the venue to

deliver the workshops in themed learning tracks. High priority workshop topics include: partnership development, marketing techniques, public involvement, and information technology applications. The Regional Coordination Workshop was held on July 23 and 24, 2008 at the Omni Austin Hotel at Southpark in Austin, Texas and attended by 172 participants from a variety of agencies and organizations involved in regional human service transit coordination. Regional Coordination Workshop materials and presentations can be found on the Regional Service Planning website (www.regionalserviceplanning.org).

Transit Leadership Initiative Linda Cherrington - \$52,000 (\$27,000+\$25,000)*

The purpose of this project is to research and develop a leadership development program that addresses the needs of rural and small urban transit managers at each stage of a career along a continuum. The continuum begins with new employees just entering the industry who need professional development. This

project provides these new employees exposure to the industry and focuses on transit manager

internship opportunities. The continuum extends to senior staff members who are anticipating retirement and require leadership development to focus on leaving a legacy, succession planning, and mentoring. This project provides the necessary foundation to define all elements of the leadership program with support from industry participants. This project will then identify a sponsor for implementation. The project goal is to establish a leadership development program that has value to the industry and can be sustainable. This project involves the collaborative efforts of Texas Transportation Institute's Transit Mobility Program and the Texas Department of Transportation, Public Transportation Division (TxDOT-PTN).

A Guide to Transportation Funding Options (Phase 1 and Phase 2)

Tina Geiselbrecht - Phase 1: \$20,000; Phase 2: \$32,300

As our nation's transportation demand continues to grow due to population increases and an expanded economy, elected officials at all levels of government are faced with difficult decisions regarding mechanisms to adequately fund the maintenance and expansion of transportation systems. This project produced a concise, user-friendly website for leaders and policy-makers that describes the array of transportation funding options that are or may be available for use throughout the country. The site describes each funding option and, where possible, offers links to projects that are using or have utilized a particular type of funding. Phase 1 of the project included data on funding for highways; Phase 2 expanded the site to transit, rail and aviation. 🗞

002011 SYMPOSIUM ON MILEAGE-BASED USER FEES

June 13-14, 2011 • Breckenridge, Colorado

The UTCM has been a leading sponsor of this annual symposium that brings together professionals in the field of road user fees to share information and advance the discussion of road user-based fees. Representatives from past, current and upcoming pilot studies and implementations will present lessons learned and key study topics from their projects. Panel discussions will address specific topics such as legislative and policy issues, public acceptance challenges, potential technology applications, and institutional issues. The symposium will incorporate interactive discussion sessions on logical next steps as well as the associated challenges and opportunities.

Sponsored by:

The University Transportation Center for Mobility[™] Humphrey School of Public Affairs, University of Minnesota Center for Transportation Studies, University of Minnesota Move Colorado Transportation Research Board

Registration for these events is available on the UTCM website, http://utcm.tamu.edu. 🐲



UTCM Researcher

Linda Cherrington

SPOTLIGHT ON TECHNOLOGY TRANSFER **Cherrington Invited to Present Blue Ribbon Lecture in RITA's Transportation Innovation Series**

invited to present a Blue Ribbon Lecture in the DOT Research and Innovative Technology Administration (RITA) Transportation Innovation Series. The presentation, entitled "Challenges and Opportunities for Rural Tran-

sit in America," will be held on August 17, 2011 at the US DOT Headquarters in Washington, DC.

As rural transit increases in importance due to changes in demographic trends, resources to provide services as well as to research service improvements remain limited. Therefore, rural transit providers are called upon to plan strategically to improve service efficiency and effectiveness.

The purpose of the presentation for the RITA Transportation Innovation Series will be to draw from the broad experience of UTCM researchers to provide a strategic look at the challenges and opportunities for rural transit in America

Linda Cherrington is Program Manager of the Transit Mobility Program at



ing software, mobile data

automated vehicle location

computers (MDCs) and

Mobile Data Computer (inset) installed on a bus









Conference on **Performance Measures** for Transportation and Livable Communities

September 7-8, 2011 • Austin, Texas

Appropriate performance measures for transportation and livability are critical to meeting federal, state, and local goals and objectives. This conference will address the current state-of-the-practice with performance measures for transportation and livable communities in urban, suburban, exurban, and rural areas. Current research, projects and initiatives will be highlighted and future research needs will be discussed. The two-day conference will include keynote speakers, plenary sessions, breakout sessions, and poster presentations on topics related to performance measures for transportation and livable communities. The conference will help advance research in the field of livability performance measures and help state departments of transportation, metropolitan planning organizations, transit agencies, and other groups to develop and use appropriate performance measures that address transportation and livability goals.

UTCM Researcher Linda Cherrington has been the Texas Transportation Institute. Since 2003, Ms. Cherrington has been a moving force behind the Texas initiatives to improve performance for rural and small urban transit and to advance the concepts of regional transportation coordination. In her UTCM research, she works directly with rural transit districts to analyze transit needs and changes in demographics to develop local initiatives to expand and improve public transportation.

> Ms. Cherrington conducted research to identify the impacts of Census 2010 on state and federal funding for rural transit in Texas. She represents TTI on the research teams for several national TRB research projects addressing performance measures for transit. Ms. Cherrington is currently the principal investigator for Federal Transit Administration research to identify Rural Transit Livability Performance Measures.

Hosted by the DOT RITA, The Transportation Innovation Series is a strategic outreach effort designed to stimulate dialogue among transportation professionals about current and emerging transportation issues facing our nation. Topics address current US DOT strategic goals, including: safety, state of good repair, environmental sustainability, economic competitiveness, livable communities and organizational excellence. 🗞









January '11

Febr<u>uary '11</u>

March '11

April '11

May '11



January 22, 2011 Suzie Edrington is named UTCM Outstanding Student of the Year at the annual Council of University Transportation Centers (CUTC) Awards Banquet. Suzie is an Assistant Research Scientist with TTI's Transit Mobility Program and a December 2010 graduate of the Masters of Urban Planning Program at Texas A&M University.

January 23-27, 2011

Ten presentations on UTCM research are made at the **90th Annual Meeting of the Transportation Research Board** (**TRB**) in Washington, DC. Additionally, two UTCM researchers preside over sessions relating to their UTCM research.

January 24, 2011

UTCM Director Melissa Tooley is awarded the prestigious 2010 S. S. Steinberg Award by the American Road & Transportation Builders Association.



January 31, 2011 Ten new UTCM projects commence, including six research and four technology transfer initiatives. Four research projects conclude. One final report on a technology transfer project is published.

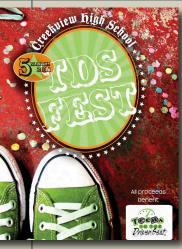
February 4, 2011 The University of Califor-

nia - Berkeley Institute of Transportation Studies invites UTCM Researcher Dr. Luca Quadrifoglio to present a lec-

ture entitled "The Zoning Paratransit System with Transfers: Formulation, Optimization and Heuristic."

February 18, 2011

RITA Administrator Peter Appel visits the Texas Transportation Institute and its two UTCs: the UTCM and the Southwest Region University Transportation Center (SWUTC). (See related article, p. 7).



March 5, 2011 Creekview High School in Carrollton, TX hosts TDS Fest, a Teens in the Driver Seat® event celebrating the accomplishment of driving down the teen crash fatality rate in Texas while remembering those who have lost their lives in this epidemic. The event is coordinated by UTCM Researcher Russell Henk and teens on the UTCMsponsored Teens in the Driver Seat® Teen Advisory Board.



 February 28, 2011

 Four UTCM projects conclude,

 including one research project, one

 education project and two technology

 transfer initiatives. One final report on

 a research project is published.

March 31, 2011 One new UTCM research project commences, and one research project concludes. Final reports for three UTCM research projects are published.

April 21, 2011

Martha Raney Taylor attends a benefit luncheon for the Civil and Environmental Engineering Department at Prairie View A&M University. The event, "Meeting the Infrastructure Needs of the Houston Area for Growth and Prosperity," features three Houston officials: City Director of Public Works Dan Krueger, City Airport System Chief Development Officer Eric Potts, and Port of Houston Authority Executive Director Alec Dreyer. Proceeds aid the department and provide scholarships.

May 13, 2011

At Texas A&M University commencement exercises, four students earn the **Graduate Certificate in Transportation Planning** in addition to graduate degrees. **Joshua Shane, Wenhao Li and Jonathan Brooks** earn Masters of Urban Planning degrees, and **Nicolas Norboge** earns a Master of Public Service & Administration with a concentration in Transportation Planning & Policy from the Bush School of Government & Public Service. A total of 21 certificates have been awarded since 2008.



April 27, 2011

Region 6 UTCs meet in New Orleans to discuss collaborative opportunities. Joining UTCM Center Director Melissa Tooley and Executive Committee Chair Herb Richardson are staff from the Gulf Coast Research Center for Evacuation and Transportation Resiliency (GCRCETR), the Southwest Region University Transportation Center (SWUTC), the Mack Blackwell Rural Transportation Center (MBTC), and the Oklahoma Transportation Center (OkTC). Amy Stearns represents USDOT RITA.

April 30, 2011

One UTCM research project concludes. Final reports for one UTCM research project and two UTCM technology transfer initiatives are published. May 21, 2011 Texas A&M Civil Engineering master's student Wei Lu receives a UTCM travel grant to present a poster on his UTCMsupported research at the 2011 Industrial Engineering Research Conference in Reno, NV. The title of his presentation is "Multi-Vehicle MAST Service: Formulation and Comparison with a Single-Vehicle Case."

May 31, 2011

Four UTCM research projects conclude, including two research projects, one educational initiative and one technology transfer initiative. One final report on a research project is published.



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