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Georgia Brosch Memorial Transportation Scholarship

Established in 1992 and renamed in 1995 in memory of the infant daughter of Gary and Barbara Brosch, this scholarship aids deserving students at the University of South Florida in devoting their time and interest to academic excellence in pursuit of a career in transportation. Recipients are determined by a selection committee, and the first award will be made in early 2000. For information on how you can contribute, contact Jo-Ann Alessandrini, Director of Development for the USF College of Engineering, (813) 974-9886.
USF's designation in 1998 as one of Florida's top three research universities came as a result of sustained progress in research and graduate education over four decades. The climb to this pinnacle has been marked by a number of milestones, including the establishment and unprecedented rise in research funding generated by the faculty of CUTR. Florida offers a natural laboratory for the study of transportation challenges faced by an aging population and explosive regional growth. At the heart of Florida's growth is a shift from a tourist- and agrarian-based economy to one that today embraces a dynamic high technology culture. The rapid growth in new markets adds new variables for CUTR's transportation professionals to consider in planning for Florida's future and for models that will benefit other regions in the country. The University and the College of Engineering, in particular, take great pride in CUTR's achievements and national recognition.

Michael G. Kovac
Dean, USF College of Engineering

As chair of CUTR's Advisory Board since 1992, I have had the pleasure of watching the organization grow into the highly-successful service and research organization it has become after just ten short years in existence. CUTR's success is the result of the broad diversity of skills, education, and experience of its researchers; the multidisciplinary approach of its research program; the strong partnerships formed with its project sponsors; the common vision of conducting meaningful, high-quality research shared by all its employees; and their dedication to the pursuit of excellence. I look forward to working with CUTR as it helps the state and nation face the mobility challenges of the new millennium.

Jack Wilson, Chair
CUTR Advisory Board
What do you do when answers to your questions are not to your liking? Transportation planning and policy research often involve analyzing complex issues where the answers involve trade-offs among competing objectives. As a result, the answers to transportation research questions are often debatable.

The controversy on many transportation issues is enormous. Providing landowners with frequent driveway access to a major highway or arterial road is viewed as essential to the property owner, but the trade-off is the increased risk of accidents and the reduced throughput on the roadway. Are seat belts on school buses a long overdue safety improvement, or are they an ineffective, potentially damaging solution? Is high-speed rail the future for medium-distance intercity travel, or is it an expensive system better suited to Europe's $4-per-gallon gasoline? Is automatic enforcement of red light running through the use of cameras an important safety and law enforcement technology improvement, or is it an unnecessary invasion of privacy and a violation of the principle of "innocent until proven guilty"? Is the use of bond financing for transportation improvements a great way to achieve needed improvements sooner, thereby lowering costs and raising the present value of the benefits, or is such financing simply mortgaging our children's future?

This is not to say that all of CUTR's activities involve controversy. In fact, many of our projects are strong "win-win" activities where literally everyone is happy with the outcome. Our transit team has successfully completed projects that assist transit agencies in improving their operations within existing resources. Our access management team has developed successful measures that please property owners, transportation officials, and the traveling public. Our transportation demand management team has many successful projects that help private companies and public agencies find positive ways to encourage more people to car pool, van pool, use flextime, and telecommute. Our ITS program involves using technological advances in transportation in what are often non-controversial, positive advances.

CUTR's mission is to serve as a resource for policymakers, transportation professionals, the education system, and the public by providing high quality, objective transportation research. We agree that research must prove its value by positively affecting change in the real world.

CUTR will continue to conduct research with an objectivity that gains the respect of those who like our answers as well as those who do not. We will recognize often competing objectives and ensure that the research makes clear all issues involved so decisionmakers can make informed decisions. This is our role. Transportation research is not rocket science; it is much harder.

Gary L. Brosch
Director, CUTR
Mission
To serve as a resource for policymakers, transportation professionals, the education system, and the public by providing high quality, objective transportation research.

Vision
To earn a national reputation through excellence and innovation in transportation research.

Values
We maintain the highest level of integrity.
We treat everyone with dignity and respect.
We practice open and honest communications and share information freely.
We strive to make CUTR a fulfilling place to work.
We contribute to the quality of life in our communities.

Guiding Principles
We contribute to the public good through high quality, objective transportation research, delivered on time within budget.
We emphasize innovative, multidisciplinary approaches to solving transportation problems.
We proactively cultivate clients to assure the long-term sustainability of the center.
We encourage individual initiative, balanced with cooperation and teamwork to best apply the appropriate expertise to each project.
We are responsive to the suggestions and concerns of others.
We value a diverse staff and provide equal opportunities for employment, professional development, and advancement for individuals.
We participate in self-improvement and professional development programs to achieve our maximum potential.
We contribute to the future of the transportation profession by providing practical work experience and educational opportunities for students.
We reward quality and excellent performance.
We encourage charitable activities.
CUTR was established by the Florida Legislature, the Florida Board of Regents, and the University of South Florida in 1988 and has become recognized nationally and serves as an important resource for policymakers, transportation professionals, the education system, and the public. With emphasis on developing innovative, implementable solutions to transportation problems, CUTR provides high quality, objective transportation expertise in the form of technical support, policy analysis, and research support that translates directly into benefits for its project sponsors.

A significant factor in CUTR’s success and a unique aspect of the Center is the responsiveness resulting from its faculty of full-time employees dedicated to conducting research. The multidisciplinary research staff includes experts in economics, engineering, planning, public policy, anthropology, business, and geography who develop comprehensive solutions for all modes of transportation while combining academic and “real world” experience.

CUTR conducts nearly $5 million in research annually for a variety of public and private sector sponsors in Florida and the United States. Areas of research include public transportation, transportation planning, intelligent transportation systems (ITS), transportation demand management (TDM), transportation economics and finance, geographic information systems, access management, and transportation safety, among others.

The following pages present information on selected recent research projects and highlight some of CUTR’s most significant research over the past few years.
The National Center for Transit Research (NCTR, formerly known as the National Urban Transit Institute or NUTI) was created at CUTR following authorization in the Intermodal Surface Transportation Efficiency Act (ISTEA) of 1991 and reauthorization in 1998 in the Transportation Efficiency Act for the 21st Century (TEA-21). This legislation authorized NCTR as one of a number of University Centers nationwide designed to help accomplish national goals in the areas of transportation education, research, and technology transfer. Research is conducted in cooperation with other universities in the Florida State University System.

The principal focus of NCTR’s activities is on public transit. Public transportation, broadly defined as alternatives to the single occupant vehicle, includes modes such as carpool and vanpool, paratransit, fixed-route bus, and guideway transit technologies. In addition, research focuses on the interface of public transit with other modes as well as the integration of public transit considerations in general transportation and land use planning tools and procedures.

NCTR’s multi-year work program includes a spectrum of activities designed to provide the public, decisionmakers, and the transportation profession with the knowledge and information necessary to help provide quality public transportation services and facilities. The theme of NCTR is “combining academic research, educational programs, and real world experience to develop innovative, pragmatic approaches that will enable public transportation to better meet the evolving needs of our citizens.”

NPTS Travel Data Analysis

S. Polzin

During the past 30 to 40 years, the portion of personal trips carried by public transit has declined in the U.S. Along with other factors, this decline has recently created a strong interest in a better understanding of transit markets, both current and future. To support this interest, CUTR analyzed the 1995 Nationwide Personal Transportation Survey (NPTS) to provide an information base for people involved in the planning, operating, marketing, and decisionmaking of public transit to help them better understand current transit markets. Results are documented in “Public Transit in America: Findings from the 1995 NPTS.”
Lessons Learned in Transit Efficiencies, Revenue Generation, and Cost Reduction

J. Volinski

The environment in which transit systems operate has changed dramatically in the past 40 years, but transit agencies have been slow to adapt and change their management styles or service patterns. This project summarized more than 175 methods used at transit agencies to make additional revenue and save money, without losing passengers. Findings of the final report were presented at several national conferences and revealed that six agencies across the U.S. seemed to nurture and promote the kind of thinking that leads to more effective and creative management. A follow-up project is identifying the conditions and practices that contribute to more creative methods of management that result in new revenues, ridership increases, or cost savings.

Guidebook for Transit Economic Impact Studies

R. Jones, X. Chu

This project is developing a guidebook on transit economic impact studies written for transit planners to provide step-by-step guidance with real-life examples of both best and worst practices. The guidebook will cover those areas of confusion that are common in practice and are significant in affecting results of transit economic impact studies. The book will be valuable not only to those transit agencies that conduct economic impact studies but also to those that outsource for such studies, to public officials who base public policy decisions on the results of such studies, and to the media that report on the studies.

Public Transit and Welfare-to-Work

B. Ward

The Personal Responsibility and Work Opportunity Reconciliation Act of 1996 is one of the most comprehensive changes in welfare legislation; the most significant change is that welfare clients move from welfare rolls to full employment in a period of no more than two years. Two projects are currently under way that are reviewing information, methodologies, and data to construct a knowledge-based compendium of information, including federal, state, and private programs instituted as a result of legislative changes.

At-Grade Busway Planning Guide

D. Shen (FIU)

The goal of this research is to develop planning guidelines for locating and designing at-grade busways in various operating environments. These guidelines will assist transit agencies, local governments, departments of transportation, and other public bodies in locating and designing busways.

Transit Promotional Materials Clearinghouse

B. Mustard (FSU)

This clearinghouse began in 1996 and established an information relay system through which transit marketers share actual work examples, review available literature on transit marketing, and tap into the experiential knowledge of their peers. The clearinghouse collects marketing materials from transit systems nationwide and provides the framework necessary to facilitate exchange of these materials, primarily through a site on the Web.

Linking Transportation Modeling Software with GIS

B. Robinson (FAMU)

This project is investigating the state of the practice of linking four-step transportation modeling packages with GIS to improve transportation planning and the production of transportation plans and updates. By surveying federal, state, and local land use and transportation planners across the nation, the extent and use of computer programs for transportation modeling linked with GIS technology will be determined. The success of this project will enable MPOs and local government transportation planners to consider relevant factors in developing transportation plans in a more cost effective and efficient manner.

Second National Conference on GIS in Transit

S. Polzin

In May 1999, CUTR and U.S. DOT's Volpe Center presented the second national GIS in Transit conference, which focused on the growing role of geographic information systems (GIS) in supporting transit planning, service delivery, and decisionmaking. Following the very successful 1995 conference, this conference explored the most current research and applications experiences in using GIS to support public transportation. More than 150 attendees heard from experts on topics such as evolving GIS capabilities; developing and applying GIS capabilities to public transportation and paratransit service; rural transit GIS applications; GIS applications to customer information, rail transit station area development, and service planning; and access to jobs.

Sponsor: National Center for Transit Research
Transit Research Program

Researchers in CUTR’s Transit Research Program provide technical support and planning research for transit systems, state departments of transportation, local governments, school boards, and metropolitan planning organizations in the areas of program monitoring and evaluation, transit system performance and peer analyses, transit development plans, operations planning, customer satisfaction and on-board surveys, school transportation planning and student safety issues, transit system safety and security, long-range transportation plans, advanced public transportation systems, civil rights, triennial reviews and other federal regulations, and customer service and complaints.

Transit Development Plans

CUTR has assisted a variety of local agencies throughout the state with their state-required transit development plans. Each plan focuses on demographic and economic data; perceptions of the transit system held by key local officials, riders, and non-users; transit-related goals and objectives; an evaluation of existing services; an assessment of demand for transit and mobility needs within the community; identification and evaluation of future alternatives for the transit system; and a prioritized list of recommendations. Assistance has been provided to the Lee County Department of Public Services, Space Coast Area Transit in Brevard County, the Tri-Rail Commuter Rail Authority in Ft. Lauderdale, the Winter Haven Urbanized Area, Panama City, and the Florida counties of Lee, Manatee, Okaloosa, Hernando, Volusia, Bay, Lake, Palm Beach, and Charlotte. CUTR also produced a manual to assist in the development of TDPs, which outlines the role of the TDP in the overall planning process.

Transit Accessibility to Private Property

D. Hinebaugh

The purpose of this analysis, supported by the Florida Department of Transportation and the U.S. DOT-designated National Center for Transit Research at CUTR, is to assess the issues surrounding the legal rights of public transit agencies to enter and serve private property, as well as to identify the major concerns of private property owners as it relates to allowing access to public transit providers. The report will summarize best practices in the industry for cooperative arrangements between private property owners/developers and public transit providers.

Sponsors: Florida Department of Transportation, NCTR

Volusia County Bus Stop Inventory

J. Rey, C. DeAnnuntis

The objective of this project is to develop a bus stop database for VOTRAN and the Volusia County MPO of existing and proposed bus stops. The physical location (latitude/longitude) of each stop will be identified using GPS handheld units. CUTR will collect data and the database will then be integrated into ArcView, a GIS mapping software package that can be used to graphically analyze bus stop information and produce maps to determine existing and future needs as well as customer service information related to bus stop attributes.

Sponsor: Volusia County MPO

Transit Operating System Recommendations

M. Baltes

The primary objective of this project was to assist Miami-Dade Transit Authority in meeting its goal of 100 percent systemwide bus pull-out. CUTR’s role in this project was to assist MDTA to implement two specific recommendations. Specifically, MDTA sought CUTR’s assistance with implementing a real-time monitor display system so that operations and maintenance could stay apprised of the status of buses in real-time and an automatic check-in device that allows bus operators to automatically “check-in” and receive their assigned work with minimal interaction with dispatch staff.

Sponsor: Miami-Dade Transit Authority

Evaluation of Field Operation Test-LYNX Automatic Vehicle Location Pilot Project

E. Hill, D. Hinebaugh

The Central Florida Regional Transportation Authority (LYNX) was awarded a Federal Transit Administration Operational Test grant to demonstrate the benefits of using combined Global Positioning System (GPS), Automatic Vehicle Location automated fleet management, and traveler information technologies. CUTR served as the independent evaluator of the project.

Sponsor: LYNX
JTA Strategic Marketing Plan

W. Morris, F. Cleland

The objective of this project is to provide strategic direction for the future marketing efforts of the Jacksonville Transportation Authority. Elements of the study include an on-board survey of current transit customers and both qualitative and quantitative studies of the residents of the Jacksonville area. The project will assess the degree to which JTA fills its intended role in providing services to the community and provide guidance in how to position JTA for future growth opportunities.

Sponsor: Jacksonville Transportation Authority

Mode Choice by People of Color for Non-Work Travel

S. Polzin, X. Chu

The primary objective of this project was to investigate mode choice behavior for non-work travel by Hispanics, Blacks, Asians, and other people of color. The project focused on how this behavior differs between these population groups and Whites and how these differences in mode choice vary with personal, household, location, and trip characteristics. This research is part of a coordinated effort by the U.S. Federal Highway Administration to better understand travel in America as revealed by the 1995 Nationwide Personal Transportation Survey.

Sponsor: Federal Highway Administration through Battelle Corporation

Aventura Municipal Transit Studies

J. Volinski, C. DeAnnunzio

Acting as subconsultant to Bermello-Ajamil & Partners, Inc., CUTR was retained to assist in analyzing current public transit needs and recommend the most effective and efficient methods of providing public transit services to the residents, employees, and visitors of the City of Aventura. CUTR determined route structure and days and span of service, established both capital and operating costs associated with any recommendations, and compared the feasibility of privatization versus a city-operated system. Specific transit routes and schedules based on recommendations were developed. CUTR assisted in the preparation of “Request for Competitive Proposals” after exploring the opportunities for purchased transportation services and assisted in the preparations of draft applications for grants for transit service and equipment from the FDOT and other appropriate grant sources.

Sponsor: City of Aventura

PalmTran Operations Analysis & Ridecheck

J. Rey

At the request of Palm Beach County, CUTR conducted an independent analysis of and provided recommendations on several proposed cuts to transit service being provided by PalmTran. CUTR performed a ridecheck on the routes in question, surveyed operators, and met with PalmTran staff, local officials, and representatives from various agencies and interest groups to gauge system- and route-level performance as well as potential impacts of the service changes. The abbreviated operational review of the system not only provided the necessary information to assess the service cuts, but also resulted in the development of more than 45 specific recommendations for improving the system’s performance.

Sponsor: PalmTran

Florida Maintenance Training Program

M. Crittenden, V. Zambito

In 1991, CUTR and FDOT entered into a joint participation agreement to provide maintenance training resources to public transit agencies throughout Florida. Now in its eighth year, the project brokers the delivery of classroom and laboratory maintenance training for transit mechanics at transit properties around the state; maintains a resource center at CUTR; conducts advisory committee meetings; produces and distributing a quarterly newsletter, Transit Training; assists with state rodeos; and supervises and evaluates training sessions. To date, more than 58,000 hours of training in 22 different courses to 1,850 registrants have been provided, and the program received the 1998 Transit Training Innovations in Training Award from the National Transit Institute. FMTP is expanding its activities, particularly in information exchange.

Sponsor: Florida Department of Transportation

Mode Choice for Non-Work Travel by People of Color Evaluated

<table>
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<tr>
<th>Mode</th>
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<tr>
<td>Other</td>
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</tbody>
</table>

Percent % | -80 | -60 | -40 | -20 | 0 | 20 | 40 | 60 | 80 | 100

Sponsor: PalmTran
Performance Evaluation of Florida’s Public Transit Systems
J. Rey, V. Perk

Since 1989, CUTR has assisted the Florida Department of Transportation’s Office of Public Transportation Operations in conducting an annual assessment of the effectiveness and efficiency with which fixed-route and demand-response transit properties in the state provide their transportation services. The studies rely on data from the systems’ federally-required National Transit Database (NTD) reports. Included are trend analyses, which examine selected performance indicators and measures, and peer review analyses, which compare Florida’s systems to their peers in the state and around the country. Additional activities include conducting a performance reporting investigation, which researches the compliance of Florida’s transit systems with state legislation requiring annual reporting of performance statistics in local newspapers, and conducting NTD training workshops tailored specifically to the data collection and reporting needs of transit operators.

Sponsor: Florida Department of Transportation

Practices in Assuring Employee Availability
J. Volinski

CUTR examined the various issues associated with the relatively high levels of absenteeism of bus operators. Based on survey responses from more than 40 transit agencies, as well as information received during focus groups with bus operators, CUTR found that there are many factors influencing absenteeism and employee availability such as tight labor markets, a changing concept of loyalty to employers, and difficult working conditions. The report identifies ways that transit agencies have been able to reduce absenteeism, including the use of customized testing instruments when selecting new employees, wellness programs, properly structured financial incentive programs, and flexible leave provisions.

Sponsor: Florida Department of Transportation, LYNX, Transit Cooperative Research Program

Security Issues Surrounding Transit Transfer Centers in or Near Residential Settings
J. Volinski

Under contract to the Tulsa Metropolitan Transit Authority, CUTR reviewed the best practices and lessons learned in the successful placements of bus transfer centers in suburban settings. Among the strategies a transit agency should consider are making the facility a community asset by providing other beneficial activities (such as day care, meeting rooms for civic associations, etc.) at the site, getting the community involved in the design of the facility, providing a police substation, and doing everything possible to respond to the community’s concerns about traffic, noise, exhaust, and security issues.

Sponsor: Tulsa Metropolitan Transit Authority

Conditions for Creativity at Transit Agencies
J. Volinski

A number of transit agencies have demonstrated particular creativity in generating new revenues and reducing costs through greater efficiencies. CUTR conducted site visits to review the conditions and identify the factors that contributed to these agencies’ unusual levels of creativity. Among the factors found at these agencies were: an entrepreneurial spirit, market-driven managers, a willingness to experiment, a broad self-image of mobility management, a passion for adding value to their community, hiring people with diverse non-transit backgrounds, strong support for professional development, and a strong sense of teamwork.

Sponsor: United States Department of Transportation, Research and Special Programs Administration

Streetcar Investment Benefits and Development Opportunity Study
R. Sheck

HART is moving forward with the construction and operation of a streetcar service linking its downtown central business district with the attractions of the Aquarium, Ybor City, and the Port of Tampa. CUTR examined the revenues the transit agency could collect from individuals and businesses who would be donors to the system in exchange for having stations and rail cars named after them. A range of benefit values were developed related to the number of trips per car, daily, weekly, and annual usage; and projected boardings and alightings at stations, as well as exposure to passing pedestrian and vehicular traffic.

Sponsor: Hillsborough Area Regional Transit Authority
Analysis of the Impacts of Florida High Speed Rail

S. Polzin

CUTR and FSU investigated traveler benefits and economic impacts of Florida High Speed Rail, carried out for FDOT and Florida Overland xPress (FOX). The study quantified the impacts expected with implementation of this major infrastructure investment. Analyzed were impacts on travelers shifting from air and highway travel to the high speed rail on time savings, safety, energy consumption, and air quality. Economic impacts analyzed included changes in employment, wages, and salaries, and overall economic activities resulting from the construction, operations, and reinvestment of surplus revenues.

Sponsor: Florida State University

Florida Vehicle Procurement Program

M. Crittenden

This program provides public transportation agencies with technical assistance and guidelines for vehicle procurement and with an opportunity to procure transit vehicles at lower prices. Goals include organization and administration of statewide group procurement of certain transit vehicles, assisting in development of vehicle specifications for all types of transit vehicles, and providing technical assistance to individual transit agencies throughout the procurement process.

Sponsor: Florida Department of Transportation

Regional Impacts of High Speed Rail

*In millions

<table>
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<tr>
<th>REGION TOTALS</th>
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<th>ECONOMIC ACTIVITY</th>
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Enabling Station Area Development

R. Sheck

There are numerous opportunities to develop land around passenger rail stations throughout the state of Florida. CUTR inventoried the various sites for such development in south Florida, Orlando, and Jacksonville and examined strategic transportation, growth management, and land use plans for these areas. The report identified legal, institutional, and financial barriers that hinder best case development strategies from application in Florida. More importantly, it identified strategies and actions to overcome the barriers to station area development including changes in strategies, policies, statutes, and ordinances.

Sponsor: Florida Department of Transportation

Transit Planning for Gainesville RTS

W. Morris

In 1997, CUTR established a long-term interlocal agreement with the City of Gainesville to support the Gainesville Regional Transit System (RTS). The three-year agreement is a mechanism to create flexibility for CUTR to provide technical assistance and planning services to the City of Gainesville on a task order basis, including developing seasonal schedules, identifying service alternatives for less efficient routes, and preparing a five-year plan enabling the system to meet FDOT requirements.

Sponsor: City of Gainesville

Assistance to Miami-Dade County

Since 1993, CUTR has worked closely with the Dade County MPO and the Miami-Dade Transit Agency (MDTA) on a variety of transit-related issues of both an operational and a policy nature. CUTR has conducted more than 30 studies, including providing assistance with MDTA's strategic management plan, developing the transit service's performance analysis and monitoring process, reviewing bus cleaning procedures, reviewing the transit operating system, evaluating the role of the bus operations field supervisor, conducting a Metrorail/Metromover community impact study, reviewing and assessing kiosk information systems, developing service planning guidelines, designing a transit survey, reviewing transit joint use policies, studying the feasibility of a transportation utility fee, studying congestion mitigation, analyzing fare cross-elasticities, studying Tri-Rail service extensions, developing a special transportation service brokerage implementation plan, conducting a productivity and efficiency analysis, and developing jitney enforcement strategies.
CUTR's safety research is dedicated to ensuring the safe mobility for all users of the transportation system. The mission is to increase knowledge by conducting general and applied research that can be translated into practical interventions designed to reduce injuries and fatalities related to motor vehicles. Specialties include large vehicle safety, engineering and ITS technologies to improve highway safety, social and behavioral analysis, safety education, crash data and analysis, and bicycle and pedestrian safety.

Florida Bicycle-Related Brain Injury Prevention Program

P. Turner

CUTR collected and analyzed pre- and post-intervention observational data on bicycle helmet use among elementary school-aged children for the Florida Department of Health, as part of a performance-based evaluation of the CDC-funded Bicycle-Related Brain Injury Prevention Program. Under this project, CUTR assisted the DOH with the selection of program participants, design of the field survey, identification of intervention and control schools, selection of field data collection sites, and collection and analyses of bicycle helmet use data.

Sponsor: Florida Department of Health

Increasing Motorists' Yielding to Pedestrians in a Florida City

P. Turner

This research involves the application of a multifaceted program that focuses on engineering, education, and enforcement components to improve pedestrian safety at crosswalks in St. Petersburg, Florida. The primary goals of the program are to increase motorists' yielding behavior from single digits to more than 70%, to reduce conflicts and crashes in crosswalks by 50%, and to increase pedestrians' feelings of comfort and security. Such goals will be accomplished through saturation enforcement campaigns, the use of innovative engineering designs at problem crosswalks, and educational materials for motorists, pedestrians, students, and seniors.

Sponsor: Florida Department of Transportation, Safety Office

Florida Regional Crash Data Entry Centers

P. Turner

CUTR is establishing five regional crash data centers over a three-year period to assist the State with decentralizing the traffic crash records process. During the first year of the project, CUTR worked with local agencies to establish regional centers in Pinellas, Seminole, and Alachua counties. Additionally, CUTR established a standard protocol for the validation and electronic transmission of crash data to DHSMV and FDOT and documented implementation plans for each regional center.

Sponsor: Florida Department of Transportation, Safety Office

Investigation of the Use of Mobile Phones while Driving

M. Burris

This project examined the causes behind the growing concern over the use of mobile phones while driving. The final report summarizes data from North American studies on accident rates of drivers using mobile phones, the benefits and problems with banning the use of mobile phones while driving, current activities in the U.S. regarding the passage of legislation on this issue, and the experiences of some countries that have banned the use of mobile phones while driving. The report also examines the future of in-vehicle communication systems and their potential benefits.

Sponsor: Florida Legislature
1st Annual Community Traffic Safety Team Summit

P. Turner

In conjunction with the Florida Department of Transportation and the Florida Safety Management System Steering Committee, CUTR helped to organize and sponsor a statewide traffic safety summit in mid-1999. The one-day conference was attended by federal, state, and local traffic safety professionals to address issues related to children, pedestrians, and bicyclists and discuss important issues such as aggressive driving, seat belt use, and alcohol. The conference provided a forum for public and private safety advocates to discuss traffic safety issues, share expertise, and effectively influence decision-making as it relates to traffic safety in Florida.

Sponsor: Florida Legislature

Evaluation of Transportation Safety Needs of Special Populations in the Southeastern United States

P. Turner, T. Ferraro

CUTR and SF’s Department of Civil Engineering recently completed the first phase of this research project sponsored by the Southeastern Transportation Center, which examined the highway safety needs of six population subgroups: old and young drivers, school-age children, international tourists, people with disabilities, and new immigrants. Researchers surveyed highway safety transportation professionals to identify and rank critical safety issues and concerns of these groups. The rankings provided insight into the most important highway safety issues related to the subgroups and allowed researchers to suggest effective countermeasures. Phase II of the project will allow researchers to evaluate the issues and countermeasures.

Sponsor: Southeastern Transportation Center, University of Tennessee

Children and Pickup Trucks

X. Chu

The primary objective of this project was to characterize the problem of children riding in the back of pickup trucks. Two perspectives were considered: one is the extent to which riding in the back of pickup trucks occurs in general and by children in particular; the other is the trend in fatalities of children from riding in the back of pickup trucks. This project also investigated the determinants of this trend using regression analysis. A final report was produced and distributed.

Sponsor: Florida Legislature

Long Distance Travel by the Elderly and Low-Income Populations in Florida

N. Georggi

In this study, a detailed analysis of the long distance travel behavior of the elderly and the low income populations of Florida was performed. Trip making patterns were compared with those of the rest of the state’s population with respect to standard travel demand indicators such as overall trip rates, trip rates by purpose, mode and destination choice, trip length distribution, and travel time. A working paper was produced to provide a description of the ATS and provide a discussion of the implications of the results from a planning and policymaking perspective.

Sponsor: Florida Legislature

Florida Observational Motorcycle Helmet Use Study

P. Turner, T. Ferraro

CUTR conducted a study to measure the use of motorcycle helmets on Florida’s roadways. Data were collected on helmet use and type, motorcycle type, gender, and use of other safety equipment. Results indicated that almost all motorcycle occupants (99.5%) wore some type of helmet protection. However, a significant number of these helmets were non-compliant. The study found the majority of observed novelty helmets were on motorcycle occupants riding cruiser-type motorcycles, and, among drivers observed, females were twice as likely as males to wear novelty helmets. The study findings are being used to monitor statewide compliance with Florida’s helmet law and to compare helmet use rates with previous as well as future results and also to provide insight to develop public information and education programs that promote safe motorcycling.

Sponsor: Florida Department of Transportation Safety Office
Transportation Demand Management Program

UTR’s multidisciplinary transportation demand management team is unique in its integration of technical skills and TDM knowledge, blending transportation and land use planning education, analytical skills, and training. The team applies its knowledge to address local or regional TDM needs, including operations, policies, and procedures. Specialties include TDM strategic planning, carpool/vanpool program design, high occupancy vehicle facilities, teleworking, TDM program evaluation, transportation management associations/organizations, and TDM training.

University North Transportation Initiative (UNTI)
S. Hendricks, M. Marshall

CUTR staffs a transportation management association for the 18-mile-square University of South Florida area, which includes the 35,000-student university, two theme parks, an industrial complex, several office parks, two major hospitals, and more than 60,000 residents. Through this private-sector initiative, CUTR is helping diverse groups address air quality, growth management, traffic congestion, and safety issues in the burgeoning USF area.

Among its activities are prioritizing and planning bicycle and pedestrian improvements, conducting a market survey to implement improvements to an internal campus shuttle, developing the operations plan for an external campus shuttle, publishing a transportation information newsletter, and maintaining an interactive web site. UNTI also has provided technical assistance to area employers to reduce parking demand and promoted and subsidized a free guaranteed emergency ride home program and a commuter vanpooling program.

1998 South Florida Commuter Services Program Evaluation
F. Cleland
Following baseline measurements developed in 1997, FDOT asked CUTR to design a survey, collect data, and conduct an analysis of the South Florida Commuter Services (SFCS). SFCS provides transportation demand management services including ridematching and employer outreach in the Miami-Ft. Lauderdale-West Palm Beach area. The primary objectives of the study were to evaluate the transportation impacts of the program among database members and measure changes in the baseline information to determine effectiveness of program activities.

Sponsor: Florida Department of Transportation, District IV

Rental Car Return Sign Effectiveness
F. Cleland
The objectives of the study were to provide a preliminary, quantitative evaluation of the magnitude of the problem of lost rental car customers. The evaluation also provided an analysis of the impacts of the erection of the rental car return signs for rental vehicle customers. Based on the evaluation, the need for the erection of additional signs to direct customers to on-airport sites or other off-airport sites was assessed.

Sponsor: Hertz Corporation

Reducing Vehicle Trips and Vehicle Miles of Travel Through Customized Travel Options
P. Winters, F. Cleland
This project was designed to implement a new application to help reduce total vehicle trips and vehicle miles of travel by encouraging the use of trip-chaining and substitution for all types of trips. The aim was to encourage individuals to occasionally choose a mix of travel choices over time to satisfy their travel needs rather than only choose the single occupant vehicle. Customized suggestions for reducing trips were developed, and the effectiveness of this treatment was shown to be significant when measured against a control group.

Sponsor: Florida Department of Transportation, Research Center

SOUTH FLORIDA COMMUTER SERVICES

1998 Rideshare Evaluation for Northeast Ohio Areawide Coordination Agency
F. Cleland
Following CUTR’s collection of baseline data in 1996, this project surveyed local area residents and rideshare database members on the performance of Rideshare! in Cleveland, Ohio. The results were used to evaluate the agency based on established performance measures for which benchmarks were set in the 1996 study and to recommend input variables for use in the FHWA TDM Model.

Sponsor: Northeast Ohio Areawide Coordinating Agency

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Testing Public Acceptance and Identifying Equity Issues for the Concept of High Occupancy Toll (HOT) Lanes on HOV Facilities

F. Cleland, P. Winters

This project is measuring public attitudes towards and acceptance of converting High Occupancy Vehicle lanes to High Occupancy Toll lanes, in effect allowing single-occupant vehicles to use restricted lanes by paying a fee. The project also is analyzing equity concerns arising from this conversion.

Sponsor: Florida Department of Transportation, Research Center

Vanpool Financing and Pricing Guide

P. Winters

CUTR is creating a manual to assist TDM practitioners in developing and administering vanpool programs. The focus is on creative options in financing the required equipment, building value for the services, and pricing structures that will meet the needs of both customers and suppliers.

Sponsor: Florida Department of Transportation, Research Center

University North Commuter Center

S. Hendricks

CUTR has established the University North Commuter Center to promote the use of transportation alternatives as a means to enhance mobility, improve air quality, and reduce traffic congestion. Located at one of the largest retail shopping malls in Tampa adjacent to the University of South Florida, the Center provides personalized assistance to identify commute alternatives that meet customers’ specific transportation needs. Options include public transit service, vanpooling, carpooling, bicycling, and walking.

Sponsor: Florida Department of Transportation

TDM Training

P. Winters, P. Lupia

CUTR’s TDM experts conduct a variety of training courses aimed at helping participants to plan, design, operate, and evaluate TDM programs for the public and private sectors. Several courses are offered at sites around the state, each taught by TDM professionals with expertise in developing and evaluating TDM programs and employment sites, current research, and technical tools. “Foundations for Mobility Management” provides information on funding, welfare-to-work, and other changes facing the mobility management community. “TDM Management Operations and Evaluations” focuses on dealing with boards, grantsmanship, and evaluation. “Tools for Mobility Planning Management” includes TDM techniques and strategies such as access management, intelligent transportation systems, and pedestrian-oriented development. “Marketing for Mobility Management” aids in the development of a strategic marketing plan. To date, more than 150 participants have received certificates of completion.

Sponsor: Florida Department of Transportation

Transportation Demand Management Clearinghouse

P. Winters, P. Lupia

The Transportation Demand Management Clearinghouse provides short-term technical assistance to commuter assistance programs, transportation management associations, Florida Department of Transportation districts, local communities, employers, and others in the planning, operation, and evaluation of TDM strategies. As part of this project, CUTR edits TDM Review, a quarterly publication of the Association for Commuter Transportation that is distributed to all Florida transit agencies, metropolitan planning organizations, FDOT district offices, and TDM programs.

Sponsor: Florida Department of Transportation, Public Transit Office
Access Management research at CUTR provides research support, training, and technical assistance to state, regional, and local agencies on access management issues. Researchers specialize in land development and access management practices, corridor access management planning, land development and access management strategies for interchange areas, right-of-way preservation programs, medians and roadway design issues, agency coordination strategies, public involvement, and the development of access management policies, procedures, and programs.

**Land Development and Access Management Strategies for Interchanges**

K. Williams

A variety of transportation problems can occur if intersections, median openings, and driveways are too close to interchange ramps. Weaving traffic, sudden right turns into driveways, and left-turning vehicles near interchange ramps can lead to frequent crashes and recurrent traffic problems. This project is identifying land development and access management strategies that local governments can apply to interchange areas to preserve the function of the interchange while accomplishing development objectives. Current state policies related to interchanges and growth management are being assessed.

Sponsor: Florida Department of Transportation

**Martin County Roadway Design and Access Management Code**

K. Williams, M. Marshall

This project involves the development of a roadway design and access management code for Martin County. The project includes a review of current practice in the county and the preparation of access management regulations, roadway design standards, traditional neighborhood development requirements, and traffic calming policies for adoption by the County.

Sponsor: Martin County

**Access Management Advisory and Training Services**

K. Williams

CUTR provides advisory and training services on access management issues on a task order basis. Technical support was provided in the development of a median handbook, a statewide procedure for managing requests for deviations from median opening standards, a short course on public involvement in access management, and a "Public Involvement Handbook for Median Projects." Current efforts include an informational brochure on "Ten Ways to Manage Roadway Access in Your Community," assessment of coordination issues and strategies for improved intergovernmental coordination in access management, and ongoing training and technical assistance on land development and access management.

Sponsor: Florida Department of Transportation
Researchers in CUTR's transportation planning area have a diverse set of technical and management skills in areas including engineering, planning, anthropology, political science, and economics. Projects encompass transportation planning methods, regional and statewide transportation policy planning, access management and corridor preservation, community impact assessment, ethnographic transportation studies, and transportation needs of special populations.

Integration of Transportation Services and the WAGES Program  
B. Ward

This project evaluated the impact of the WAGES Program on public transportation in Florida to assess the approaches employed by local WAGES Coalitions to ensure the availability of viable and sustainable transportation for former welfare recipients entering or re-entering the workforce. CUTR identified "best practices" or "innovative ideas" for solving transportation problems locally, including programs that have successfully addressed linked trip requirements for persons who have children or other family members who require transportation for school, daycare, or recreation programs.

Sponsor: Florida Department of Transportation

Access to Jobs: An Assessment of the Role of Transportation in the WAGES Program  
B. Ward

This research project assessed how the state and local WAGES coalitions were integrating and coordinating transportation into their local planning and implementation efforts. This included an overview of the Florida WAGES Program and other states’ efforts pertaining to welfare to work and the access to jobs initiatives, the extent to which WAGES and public transportation programs are integrated and coordinated at the local and state levels in Florida, and a profile of local transportation initiatives.

Sponsor: Florida Legislature

Strategic Visioning for Transportation and Sarasota Transportation Enhancement Plan  
B. Ward

This project developed a transportation vision for the Venice Foundation service area (Sarasota, Florida). Activities included identifying the necessary steps to realize the vision, developing collaborative strategies to secure resources, and agreeing on a process. This effort assisted the Foundation and other transportation entities to develop an approach to comprehensive transportation planning for the county. To respond to the research needs and issues identified in the visioning session, additional tasks were identified. This effort will provide additional information from county residents, organizations, and others that will inform the research and lead to recommendations for a countywide transportation plan.

Sponsor: The Venice Foundation

MPOAC Strategic Plan Implementation  
E. Mierzejewski

As a subcontractor to Hall Planning & Engineering, CUTR worked with the Florida Metropolitan Planning Organization Advisory Council to assist with the implementation of their strategic plan. Specifically, CUTR assisted on methods to improve the coordination of land use and transportation planning and incorporate innovative practices into MPO long range planning. These efforts had their genesis in previous CUTR efforts on behalf of the MPOAC.

Sponsor: Hall Planning & Engineering

Community Impact Assessment  
B. Ward, K. Williams

In recent years, the Federal Highway Administration (FHWA) has initiated efforts to refocus transportation professionals and enhance their expertise on how to address community impact issues. CUTR has engaged in three community impact assessment research projects with FDOT and FHWA since 1997: an evaluation of the community impact assessment primer, "Community Impact Assessment: A Quick Reference for Transportation" and its use in the U.S., based on a survey of state transportation agencies or DOTs and metropolitan planning organizations; development and presentation of a national community impact assessment workshop; and development of a more extensive and user-friendly community impact assessment handbook for use by FDOT district offices in the project development process.

Sponsor: Federal Highway Administration, Florida Department of Transportation
Researchers in CUTR’s Intelligent Transportation Systems Program participate in innovative projects in which new concepts and technologies are being applied to solve real-world problems. Specialties include the evaluation, cost-effectiveness, and implementation feasibility of applying ITS technologies to existing transportation systems in the areas of advanced public transportation systems, advanced traffic management systems, advanced traveler information systems, advanced crash avoidance systems, automatic vehicle location, automated traffic data collection, electronic toll and traffic management systems, regionalized comprehensive transportation master plans, and weather monitoring systems.

Statewide Intelligent Transportation Systems Strategic Plan
M. Pietrzyk

Because of the highly-regarded expertise of its ITS team, CUTR was asked to participate on a team that is developing a Florida ITS Strategic Plan based on consensus-building. This plan will be adopted by the Florida Department of Transportation to guide in policy development and in the planning, programming, and implementation of integrated multi-modal ITS elements at the statewide, regional, or local level, as appropriate. The plan will be multi-modal in scope and provide a statewide vision of the role of ITS in maximizing the safety and operational efficiency the Florida’s Transportation System. It will consider how ITS can contribute to the economic health and growth of the state in a world economy and will contain currently deployed and programmed ITS applications and document how these applications fit into the statewide vision. CUTR’s primary role has focused on the identification of suitable rural ITS applications for Florida.

Sponsor: Florida Department of Transportation

Evaluation of the Need for Reversible Lanes at Electronic Toll Collection Plazas
M. Pietrzyk, M. Burris

CUTR used computer simulation modeling to determine the need for reversible lanes at each of the 27 FDOT toll plazas that use them. With the introduction of SunPass and electronic toll collection (ETC), toll lanes will be able to accommodate additional traffic, and some of this traffic will be moving at higher speeds. Therefore, reversible lanes may not be needed once ETC begins and the reversing of these lanes becomes more dangerous. After carefully modeling each plaza, CUTR determined that the removal of reversible lanes after SunPass is operational would be detrimental to traffic flow at only four toll plazas.

Sponsor: Florida Department of Transportation, Office of Toll Operations

Investigation of Automated Photo Enforcement for Red Light Running
M. Burris

Running red lights is one of the leading causes of accidents in urban areas. In Florida alone, red light running caused more than 11,600 accidents and 16,000 injuries in 1998. This project examined the use of automated enforcement red light cameras in several cities in the U.S. and determined costs and benefits associated with the use of these cameras. CUTR also investigated the different application methodologies, the advantages, issues, and disadvantages of the use of this technology, and enabling legislation from other states.

Sponsor: Florida Legislature

Review of Amtech’s System Test Plan for SunPass
M. Pietrzyk

CUTR received SunPass equipment requirements, management systems, and test requirement Request for Proposals (RFPs) from the Florida DOT, as well as the corresponding proposals from the SunPass vendor (Amtech) and Amtech’s systems test plan. CUTR’s ITS team, with assistance from the USF Electrical Engineering Department, provided an independent review for the RFPs and the corresponding proposals. Areas that were not covered in the proposals in detail were noted and improvements to the tests were suggested.

Sponsor: Florida Department of Transportation, Office of Toll Operations
Innovative Design Alternatives for Increasing Capacity

M. Pietrzyk

CUTR is reviewing and evaluating innovative design alternatives incorporating ITS applications to provide additional capacity on the Lee Roy Selmon Crosstown Expressway between Interstate 75 and downtown Tampa. Specifically, ITS applications are being developed that enhance the eastern extension and elevated reversible lane capital improvement projects.

Sponsor: Tampa-Hillsborough Crosstown Expressway Authority

Fiber-Optic Communications Concept Plan for Miami-Dade County’s Intelligent Transportation Infrastructure

M. Pietrzyk

This report provides an introductory discussion on fiber-optic technology, a description of existing and planned fiber-optic networks within Miami-Dade County, case study examples of public-private partnerships and cost-sharing opportunities in fiber network development, and recommendations on how to move forward with fiber-optic communications in Miami-Dade County.

Sponsor: Miami-Dade Metropolitan Planning Organization

Update on Intelligent Transportation System Plan for Dade County

M. Pietrzyk

In 1996-1997, CUTR prepared the first ITS Plan for Dade County under contract with the Miami-Dade MPO, and the Miami-Dade MPO Governing Board approved this plan in February 1997. This project is updating, reorganizing, and expanding the plan to reflect the most current ITS objectives, priorities, and projects deployment status in Dade County. ITS is an emerging priority in Dade County and considered by many to be a new tool to solve transportation problems that can no longer be solved only by building new capacity.

Sponsor: Miami-Dade Metropolitan Planning Organization

Technological Innovations Review for the Expressway System

M. Pietrzyk

CUTR is identifying, evaluating, and recommending potential innovations and technological applications to improve safety and capacity on the Lee Roy Selmon Crosstown Expressway System in Tampa.

Sponsor: Tampa-Hillsborough Crosstown Expressway Authority

Field Evaluation of Peek Traffic’s Idris Technology

M. Pietrzyk

In collaboration with the FDOT Office of Toll Operations and Peek Traffic, Inc., CUTR organized and conducted field tests on Idris, an inductive-loop-based technology originally designed to detect freeway incidents, but which has been modified to perform vehicle separation analysis in a toll plaza environment. A three-day preliminary test was conducted at the Anderson mainline toll plaza in Tampa. Field test results from Idris and the existing overhead ultrasonic device indicated that Idris may be the more accurate device. More comprehensive field tests are being conducted at the Leesburg mainline plaza on Florida’s Turnpike.

Sponsor: Florida Department of Transportation, Office of Toll Operations

Assessment of Automated Systems for Polk County Signalized Intersections

M. Burris

This project examined the use of cameras to capture on film vehicles running red lights in Polk County. The report included a brief description of the project technology used based on vendor brochures and documentation, identification and evaluation of problem areas, a count of the number of violations captured by the cameras, and number of warning letters sent. In addition, a summary of the public awareness efforts performed as part of this project was produced.

Sponsor: Polk County Community Traffic Safety Team

Lee County Variable Pricing Program

M. Burris

As part of a $20 million Federal Highway Administration Variable Pricing Pilot Program grant awarded to Lee County (Ft. Myers), Florida, CUTR is assisting the county’s transportation department in the development of a variable pricing program (off-peak discounts) for two area toll bridges. CUTR’s primary role is to independently monitor and evaluate the impact of variable tolls on transportation in Lee County. Also included are independent review of pricing scenarios, conducting focus group interviews, preparing a concept plan and lane configuration for installation of an electronic toll collection system for the toll bridges, and computer simulation modeling of the traffic at the toll plazas. Off-peak discounts went into effect in August 1998, and early results indicate that a significant percentage of bridge patrons are altering their travel times to obtain the variable pricing discounts.

Sponsor: Lee County
CUTR’s Education Program

Contribution to the education of future transportation professionals has been a primary goal of CUTR since its establishment. By working closely with student assistants on research projects and student organizations and activities, serving as thesis advisers, assisting students with job placement, teaching transportation and related courses, coordinating USF’s Graduate Interdisciplinary Transportation Program, and participating in the University Transportation Centers Program, CUTR faculty are dedicated to the professional and educational development of students in the College of Engineering and throughout USF. CUTR is committed to assisting the state in training Florida’s brightest students for successful careers in transportation for the benefit of the citizens of Florida and the nation.

In 1998, positions as research assistants were awarded to 33 graduate and undergraduate students from a variety of disciplines. Their skills in research, writing, statistical analysis, geographic information systems, management information systems, database management, and graphics are an important contribution to CUTR’s research program. In addition, students are provided with encouragement and assistance in co-authoring papers with CLTR faculty, attending and making presentations at local, state, and national conferences and meetings, and maintaining involvement in professional organizations and societies.

USF’s Graduate Interdisciplinary Transportation Program

The transportation problems that urban areas are facing today require interdisciplinary approaches. The University of South Florida has responded to this need by designing a unique transportation program that brings together graduate students in:

- Economics
- Civil Engineering
- Public Administration

The Graduate Interdisciplinary Transportation Program for students in Civil Engineering, Economics, and Public Administration welcomed its first students in Fall 1995. Students accepted into the program enroll in a common set of core courses that emphasize urban transportation issues. A common body of knowledge is thereby developed among the disciplines, and each student acquires expertise in all three disciplines.

Students in the program also have opportunities to participate on research project teams with senior transportation faculty at CUTR, gaining hands-on experience with local, state, and national transportation issues.

Job opportunities for graduates of this program are numerous and varied. Students with interdisciplinary skills that can be applied to today’s transportation problems are eagerly sought by consulting firms, research centers, transportation agencies, and all levels of government.

The program is now being offered as a six-course certificate program in addition to being available to students working toward Master’s degrees. Students with previous coursework in civil engineering, economics, or urban planning may be able to receive credit for those courses and shorten the time required to receive the certificate. The certificate program was developed for early- and mid-career transportation professionals in response to a need expressed by the profession for increased training in interdisciplinary approaches to transportation issues. The possibility of offering the program statewide through USF’s distance learning delivery system is being explored. This would allow participants to take the required courses in their own community through USF’s interactive technology.

Southeastern Transportation Center Education Program

CUTF is a member of the Southeastern Transportation Center (STC), a consortium of 12 universities in the southeastern U.S. that have formed a partnership to serve the region as the designated U.S. Department of Transportation Region IV Transportation
Research Center. With a theme of transportation safety, STC is dedicated to the mission of training professionals to address the transportation needs of the region and nation in the 21st century. STC has an aggressive program of supporting students pursuing transportation degrees, and CUTR participates in that program by selecting students to participate in the STC program. Participation includes partial financial support for the students’ research assistantship appointment and additional funding for student travel to professional conferences and meetings. Typically, 6 to 12 students are designated as STC Fellows, and activities include traveling to the Transportation Research Board Annual Meetings, the annual STC meeting in Atlanta, and other professional meetings. An awards program, web site, resume book service, and other activities support professional development.

Institute of Transportation Engineers, Student Chapter

CUTR has sponsored the USF Student Chapter of the Institute of Transportation Engineers (USFITE) since its formation in 1991. Since that time, USFITE has been active in enriching the educational experience of its members. Opportunities have included hosting numerous guest speakers from public and private transportation organizations, participating in field trips to transportation facilities, and attending state and national professional meetings. The chapter also has assisted in the USF College of Engineering’s annual EXPO, which introduces area high school students to engineering careers, and has conducted a number of public service activities.

Graduate Students 1997-1999

Ramakrishna Apparaju
Civil Engineering
Asma Best
Civil Engineering
Chris Billingsley
Geography
Shannon Bliss
Business
Stacy Burgess
Civil Engineering
Alasdair Cain
Civil Engineering
Jason Collins
Civil Engineering
Sunanda Dissanayake
Engineering
Lois Dowridge
MIS
Lucia Farriss
Economics
Leilani Francisco
Anthropology
Caprice Garing
Economics
Mohan Gollakoti
Civil Engineering
Christopher Hagelin
Anthropology
Daniela Issa
International Relations
Pierfranco Issa
Electrical Engineering
Ryan Koeniger
Marketing
Suresh Lankalapalli
Civil Engineering
Xuewen Le
Civil Engineering
Kit Nagel
Computer Science
Dawn Narramore
MIS
Robert O’Donnell
Economics
Ravi Peddu
Civil Engineering
Scott Place
Geography
Tim Rametta
MIS
Chris Snook
Civil Engineering
Brent Stoffle
Applied Anthropology
Srinivas Tarankanti
Civil Engineering
Brenda Thompson
Economics
Luis Vega
Geography
Sujeeva Weerasuriya
Civil Engineering
Ashley Yelds
Economics
Yanhui Zhou
Civil Engineering
Jeffrey Zokovitch
Social Science Education

(I to r) Thompson, Hagelin, Best, Dissanayake, Stoffle, Vega, Dowridge, Burgess, Cain, Place, Snook, O’Donaill, Issa, Issa, Rametta

(I to r) Nagel, O’Donnell, Koeniger, Farriss, Garing, Yelds, Lankalapalli, Peddu, Le, Collins, Zhou
Gary L. Brosch  
Director, MS, Economics, Florida State University;  
BS, Economics, University of South Florida.  
Specialties: urban community economic analysis, innovative financing, urban mobility.

Darin Allan  
Research Associate, MPA, Urban Management, Indiana University; BA, History, Valparaiso University. Specialties: GIS, public transit planning/operations, transit system performance analysis, electronic fare payment systems, bicycle & pedestrian mobility planning, transportation development plans.

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John Bradley  
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Mark Burris  
Research Associate, MSCE, Transportation Engineering, University of New Brunswick, Canada; BSCE, Technical University of Nova Scotia, Canada.

Specialties: transportation and logistics management, maintenance management, vehicle procurement, training.

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Martin Catalá,  
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Xuehao Chu  
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Chris Hagelin
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Jennifer A. Hardin
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F. Ron Jones
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Laurel Land, AICP
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Worcester Polytechnic Institute. Specialties: transportation systems analysis, environmental impact analysis, traffic and parking studies, highway planning, transportation economics.

William P. Morris
Senior Research Associate. BA, Social Science, University of Florida. Specialties: market research, strategic planning, transportation development plans, customer service/customer relations, transit/MPO planning process, fare policy, public involvement.

Ram M. Pendyala
Assistant Professor, Civil Engineering. PhD, MS, Civil/Environmental Engineering, University of California-Davis; B.Tech., Civil Engineering, Indian Institute of Technology, Madras. Specialties: travel demand forecasting, dynamic travel behavior modeling, ITS, intermodal planning, land use & air quality, telecommuting.

Victoria A. Perk
Research Associate. MA, Economics, University of South Florida; BA, Economics, Eckerd College. Specialties: transportation economics, transit system performance analysis, survey design and analysis, statistical analysis.

Michael C. Pietrzyk, PE
ITS Program Director. MS, Civil Engineering, The Pennsylvania State University; BS, Civil Engineering, Virginia Polytechnic Institute. Specialties: congestion management systems, intelligent transportation systems, electronic toll and traffic management systems, pavement management systems, technology performance evaluations.

Steven E. Polzin, PE
Director, STC Program. PhD, Civil Engineering, MSCE, Urban Systems Engineering, Northwestern; BSCE, University of Wisconsin-Madison. Specialties: public transportation, public policy analysis, transportation planning, travel behavior.

Joel R. Rey
Senior Research Associate. MSCE, Transportation Engineering, BSCE, University of South Florida. Specialties: travel behavior analysis, transportation planning, transit system performance analysis, public transportation.

Lisa Staes
Senior Research Associate. BS, Geography, Florida State University. Specialties: transit development plans, welfare to work, federal programs and policies, innovative financing initiatives, para-transit planning.

Richard T. Stasiak
GIS/Data Program Director. PhD, MA, BA, Economics, State University of New York at Buffalo. Specialties: transportation economics, transportation finance, transportation planning, computer modeling.

Patricia Turner
Senior Research Associate. MPA, Public Budgeting and Finance, University of South Florida; BS, Business Administration, University of Maryland. Specialties: public policy analysis, transportation safety research, transportation demand management, specialized transportation planning, survey design and analysis.

Peter G. Valko
Research Associate. MS, Management, Naval Postgraduate School; BS, Aeronautical Engineering, Aerospace Institute. Specialties: alternative fuels and advanced vehicle technology, transportation planning and development, financial management, cost-benefit analysis, aviation operations, maintenance, training, safety.

Joel Volinski
Director, National Center for Transit Research. MSUP, Columbia University; BA, Urban Geography, State University of New York-Albany. Specialties: public transportation, public administration.

Beverly G. Ward
Director, ETS, MPA, Urban Planning, University of Alabama at Birmingham; BA, Psychology, Vassar. Specialties: transportation demand management, transportation planning, specialized transportation services, social impact assessment, ethnography and travel behavior.

Kristine M. Williams,
Senior Research Associate. MUP, Urban Planning, BA, Anthropology, Michigan State University. Specialties: access management, corridor management, growth management, public involvement, community impact assessment.
Staff

Victoria Zambito
Training Specialist

Gwen Hollis
Office Assistant

Yolanda Moore
Office Assistant

Patricia Baptiste
Program Assistant

Susan Horsman
Program Assistant

Donna Everhart-Reno
Senior Fiscal Assistant

Elizabeth Manning
Senior Secretary

Pam LaPaugh
Clerk

Andrea Rudon
Clerk Assistant

Florida ITE's Young Engineer of the Year
1998 Mark Burris

Collecting donations for CUTR's annual Metropolitan Ministries food and toy drives: Ed Mierzajewski, Elizabeth Manning


CUTR winners of USF's Quiet Quality Award: (1 to r) Vicki Zambito, Elizabeth Manning, Gwen Hollis, Donna Everhart-Reno, Pam LaPaugh
Robert Aangeenbrug (Geography), PhD, University of Wisconsin-Madison.
Specialties: geographic information systems, transportation.

Melvin W. Anderson (Civil Engineering), PE, PhD, Carnegie Mellon University.
Specialties: hydraulics, culverts, water resources, systems analysis.

William C. Carpenter (Civil Engineering), PE, PhD, North Carolina State University.
Specialties: structural optimization, fracture mechanics.

John L. Daly (Public Administration), PhD, Indiana University.
Specialties: public administration, public personnel policy, organizational theory.

Joseph DeSalvo (Economics), PhD, Northwestern University.
Specialties: urban/regional economic analysis.

Wayne F. Eychelberger (Civil Engineering), Jr. PE, PhD, University of Michigan.
Specialties: environmental engineering, water resources.

Paul Givens (Industrial Engineering), PhD, University of Texas-Arlington.
Specialties: manufacturing systems, engineering management, small business development, productivity.

Manjirker Gunaratne (Civil Engineering), PE, PhD, Purdue University.
Specialties: modeling of geo-technical and pavement systems.

Rudolph E. Henning (Electrical Engineering), ScD, Columbia University.
Specialties: microwave and millimeter-wave microelectronic design, distributed monolithic ICs/interconnections.

Abraham Kandel (Computer Science & Engineering), PhD, University of New Mexico.
Specialties: artificial intelligence, robotics, expert systems.

Renu Khator (Public Administration), PhD, Purdue University.
Specialties: environmental politics, comparative public administration.

S.K. Khator (Industrial Engineering), PE, PhD, Purdue University.
Specialties: computer applications.

Dennis Killinger (Physics), PhD, Michigan.
Specialties: laser physics, laser remote sensing, laser spectroscopy.

Susan MacManus (Public Administration), PhD, Florida State University.
Specialties: public administration, political science.

James Moore (Architecture), PhD, University of Pennsylvania.
Specialties: community planning, daylighting architectural technology.

James Mortimer (Institute on Aging), PhD, University of Michigan.
Specialties: epidemiology, disease research.

R. Jerry Murphy (Civil Engineering), PE, PhD, University of Oklahoma.
Specialties: environmental engineering, air pollution control.

Tracy Newsome (Geography), PhD, The Ohio State University.
Specialties: location theory, applied locational analysis, transportation geography, urban transportation problems.

Geoffrey O. Okogbaa (Industrial Engineering), PhD, University of Cincinnati.
Specialties: quality engineering, automated production support systems, human performance in automated systems.

Rafael Perez (Computer Science & Engineering), PhD, University of Pittsburgh.
Specialties: artificial intelligence & expert systems development.

Noreen Poor (Public Health), PhD, Virginia Tech.
Specialties: petroleum hydrocarbons, air quality, air pollution.

Alexander Ratensky (Architecture), MA, Princeton University.
Specialties: architectural education, design.

Paton N. Rigas (Public Administration), PhD, Michigan State University.
Specialties: urban management and planning, metropolitan reorganization.

Mark A. Ross (Civil Engineering), PhD, University of Florida.
Specialties: cohesive sediment transport in estuaries and coastal waters, hydraulic and water quality modeling.

Ravi Sankar (Electrical Engineering), PE, PhD, The Pennsylvania State University.
Specialties: communication/computer networking, signal processing, speech processing.

E.K. Stefanakos (Electrical Engineering), PhD, Washington State University.
Specialties: device physics, crystal growth and characterization.

Lee A. Weaver (Industrial Engineering), PhD, University of Florida.
Specialties: applied statistics, statistical reliability.

Paris H. Wiley (Electrical Engineering), PE, PhD, Virginia Polytechnic Institute and State University.
Specialties: biomedical instrumentation, satellite communications.

Alvin W. Wolfe (Anthropology), PhD, Northwestern University.
Specialties: applied anthropology, urban anthropology.
Makola Abdullah, Florida A&M University.
Specialties: structural dynamics, earthquake and hurricane hazard mitigation active control.

Clement S. Silen, Florida A&M University.
Specialties: artificial intelligence, computational linguistics.

Nii O. Attoh-Okine, Florida International University.
Specialties: pavement and transportation engineering, guideway transit, automated people movers, fare collection systems, pavements inspection.

George R. Auzenne, Florida A&M University.
Specialties: industrial relations, organizational behavior, labor contracting.

Joseph Cronin, Florida State University.
Specialties: strategic transportation planning, service quality measurement.

Kimberly J. Davis, Florida A&M University.
Specialties: environmental sciences & ecology, environmental justice, environmental education.

Andrew Dzurik, Florida State University.
Specialties: regional planning, policy analysis, systems analysis.

Hesham Elbadrawi, Florida International University.
Specialties: traffic & transportation engineering, public transit planning, traffic management strategy.

Timmi Fadiola, Florida A&M University.
Specialties: computer modeling & applications in transportation.

James E. Frank, Florida State University.
Specialties: infrastructure planning, fiscal dimensions of planning.

Richard Gragg, Florida A&M University.
Specialties: toxicology.

Charles Hofacker, Florida State University.
Specialties: marketing research, information technology, bicycle/pedestrian consumer behavior.

G. Tomas Hult, Florida State University.
Specialties: international marketing, service marketing, mechanical engineering.

Sylvan Jolibois, Florida International University.
Specialties: transportation technology, policy planning and economic development.

Young-Kyun Lee, Florida International University.
Specialties: GIS-T, guideway transit, IVHS, network analysis, visualization, neural network application.

Thomas Lynch, Florida State University.
Specialties: transportation economics, high speed ground & public transportation economics.

Loyd Lyday, Florida State University.
Specialties: urban community policy analysis, legal research practices.

Primus Mtenga, Florida A&M University.
Specialties: system performance and reliability, structural analysis.

William A. Mustard, Florida State University.
Specialties: transportation planning, air quality, transit/TDM strategic planning, management information systems, grants management.

Soronzani Nnaji, Florida A&M University.
Specialties: probabilistic design of civil engineering systems, engineering decision analysis.

Diana Ospina, Florida International University.
Specialties: transportation, transit, traffic & urban planning, geometric design & traffic signal design.

W. Virgil Ping, Florida State University.
Specialties: transportation engineering, materials engineering.

Brenda Robinson, Florida A&M University.
Specialties: GIS, transportation planning, transportation infrastructure design & analysis, bridge design.

Ray A. Shackelford, Florida A&M University.
Specialties: community outreach, public health, technology transfer.

David Shen, Florida International University.
Specialties: mass transit planning, guideway transit technology, transit system design, airport planning and design.

Alvin Shipman, Florida A&M University.
Specialties: computer hardware/software.

Keith Simmond, Florida A&M University.

Vergil G. Stover, PE, Texas A&M University.
Specialties: access management, transportation planning, site circulation design, urban land development, growth management, congestion management.

Addis C. Taylor, Florida A&M University.
Specialties: transportation management training, paratransit marketing.

Gregory L. Thompson, Florida State University.
Specialties: policy analysis, transportation/land use interaction, public transportation cost and planning.

E. Assam Radwan, University of Central Florida.
Specialties: traffic operation, highway safety, traffic simulation.

Roger Wayson, University of Central Florida.
Specialties: transportation/environmental interactions, air pollution and noise impacts.

Abraham Weaver, Florida A&M University.
Specialties: nuclear pharmacy, environmental toxicology, risk assessment.

Charles Wright, PE, Florida A&M University.
Specialties: intermodal transportation assessment, alternative modes of transportation, paratransit.

Fang Zhao, Florida International University.
Specialties: computer-aided design, artificial intelligence, GIS.
Selected Presentations

- Michael Baltes, "Measuring Motorist Comprehension of Florida's School Bus Stop Law and School Bus Signalization Devices," TRB 77th Annual Meeting
- Michael Baltes, "The Safety of Children During the School Commute and Other Issues Related to Safe School Access," ITE 68th Annual Meeting
- Michael Baltes, "A Study of Fatal Pedestrian Crashes in Florida," TRB 77th Annual Meeting
- John Bradley, "Clean Vehicles for Public Safety," Florida Sheriff's Association Annual Meeting
- John Bradley, "Florida's Statewide Clean Cities Program," Florida Natural Gas Association Annual Meeting
- Gary Brosch, "Research Partnerships in Academia: The CUTR Story," International Road Federation Annual Meeting
- Gary Brosch, "Statewide Transportation Needs Analysis," Greater Tampa Bay Transportation Summit
- Gary Brosch, "Transportation: Key to Economic Development," Florida Council of 100 Annual Meeting
- Mark Burris, "Designing an Effective Kiosk System," ACT Annual Conference
- Mark Burris, "Lee County Variable Pricing," TRB Conference on Application of Transportation Planning Methods
- Mark Burris, "The LeeWay ETC System," 8th Annual Meeting of the ITS Society of America
- Mark Burris, "The Plan to Quantify the Impact of Variable Pricing in Lee County," TRB 77th Annual Meeting
- Francis Cleland, "Bridging the Evaluation Gap," 1998 ACT International Conference
- Francis Cleland, "HOV Lanes in South Florida," 1998 SEACT Conference
- Sara Hendricks, "Beyond the End of the Trail: Linking On-Road and Off-Road Systems," First International Trails and Greenways Conference
- Sara Hendricks, "TDM Planning for James A. Haley Veterans Hospital," 15th Annual SEACT Conference
- Ron Jones, "Pros and Cons of Transportation Authorities," Florida Multi-County Transportation Summit
- Laura Lachance, "Transportation Resources for Older Adults," Transportation Needs of an Aging Population
- Laura Lachance & Ed Mierzejewski, "Analysis of the Cost Effectiveness of Motor Vehicle Inspection Programs for Reducing Air Pollution," TRB 77th Annual Meeting
- Mike Pietrzyk, "Developing Suitable Countermeasures for Fog-Related Incidents in the Tampa Bay Area," International Bridge, Tunnel & Turnpike Association's Engineering & Design and Research Committees Joint Business Session
- Mike Pietrzyk, "Evaluation of Fog-Related Crashes in the Tampa Bay Area," 8th Annual Meeting of the ITS Society of America
- Steve Polzin, "Advocates or Analysts: Are Transportation Planners Ready for the Future?" U.S. Department of Transportation Research and Special Programs Administration's University Lecture Series
Selected Publications & Reports

- Michael Baltes, "Descriptive Analysis of Crashes Involving Pedestrians in Florida, 1990-1994," Transportation Research Record 1636
- Michael Baltes, "Measuring Motorist Comprehension of Florida's School Bus Stop Law and School Bus Signalizing Devices," Transportation Research Record 1640
- Michael Baltes, "A Study of Fatal Pedestrian Crashes in Florida, CD-ROM Compendium," 77th TRB Annual Meeting
- Mark Burris, "Planning Lee County's Congestion Pricing Program," Transportation Research Record 1617
- Xuehao Chu & Steve Polzin, "Considering Build-Later as an Alternative in Major Transit Investment Analyses," Transportation Research Record No. 1623

- Kristine Williams, "Corridor Management in Florida," 1998 Florida Chamber of Commerce Growth Management Short Course
- Kristine Williams, "Corridor Management and the Role of MPOs," Michigan 3C Conference
- Kristine Williams, "Public Involvement in Access Management," Iowa Access Management Conference
- Phil Winters, "Transportation Demand Management in Florida," Gridlock 2: Beyond 2000
- Phil Winters, "Applying Creative Problem Solving to a TDM Problem" FDOT TDM Summit
- Phil Winters, "Commuter Choice Changes Due to TEA-21," Florida Transit Association Annual Meeting
- Phil Winters, "Predicting the Impact of Trip Reduction Strategies," ACT Annual Conference
- Steven E. Polzin, Rongfang Liu, and Ram Pendyala, "Simulation of the Effects of Intermodal Transfer Penalties on Transit Use," Transportation Research Record 1623
- Access to Jobs: An Assessment of the Role of Transportation in the Florida WAGES Program
- ADA Service Criteria: Measuring Compliance with Capacity Requirements for ADA Complementary Paratransit
- A Market-Based Approach to Cost-Effective Trip Reduction Program Design, Final Report, Results on Survey Conclusions
- Analysis of Technologies and Methodologies Adopted by U.S. Transit Agencies to Enhance Transit Security
- An Application of a Knowledge-Based Expert Modeling Process for Small to Medium Size Transit Systems
- A Synthesis of Funding for Large Transit Agencies in the United States
- Civic Center TMO Commuter Characteristics Study and Executive Summary
- Data Requirements and Data Sources for Transit GIS Applications
- Effective Transit Agency Attendance Policies and Programs
- Effects of Transportation Plan Development on Minority and Impoverished Communities
- Enhancing Safety in Florida Transit Systems: Survey of Public Transit Operators
- Enhancing Safety in Florida Transit Systems Accident Tracking Methodology/Case Study
- Evaluation of South Florida Commuter Services Surveys
- Evaluation of Rental Car Return Directional Signage, Fort Lauderdale International Airport
- Evaluation of Rental Car Return Directional Signage, Orlando International Airport
- Examining the Feasibility of Developing a Senior High School Transportation Curriculum
- Feasibility of Establishing a Municipal Transit System in Aventura, Florida
- Feasibility Study: A Public-Private Partnership for Transit Vehicle Purchasing and Leasing
- Feasibility Study for a Pilot Circulator Serving USF Commuters
- Florida Bicycle-Related Brain Injury Prevention Program Year One Observational Survey
- Florida Observational Motorcycle Helmet Use Study
- Florida Transit Safety Resource Guide
- Innovations in Planning: Best Practices of Florida's 25 Metropolitan Planning Organizations
- Interactive Transportation Information Stations
- Intergovernmental Coordination in Access Management
- Investigation of Automated Photo Enforcement of Red Light Running
- Miami-Dade Transit Agency Service Guidelines
- Neural Network Application for Predicting the Impact of Trip Reduction Strategies
- PalmTran Operations Analysis, Final Report
- Paratransit Productivity Enhancement Through Service Simulation
- Performance Evaluation of Florida's Transit Systems 1996
- Performance Measures for South Florida Commuter Services
- Public Transit in America: Findings from the 1995 Nationwide Personal Transportation Survey
- Realizing Electric Bus Deployment for Transit Service
- Rideshare! Evaluation 1996
- Ten Ways to Manage Roadway Access in Your Community
- Transit Customer Service Satisfaction Index for Florida Transit Properties
- The USF Bicycle Commuting Survey
- Visual Inspection and Evaluation of Successive Designs for SunPass Transponders