Message from the University President

In the five years since its establishment, the Center for Urban Transportation Research has achieved significant national recognition for conducting research that results in both innovative and useful solutions to transportation problems. Its outstanding success attests to the ability of its diverse and dedicated faculty to understand the challenges of the present and translate them into benefits for the future.

In addition, CUTR’s commitment to the University's education and service missions through teaching and advising, involving students in research projects, supporting professional development, working closely with USF and other faculty, and participating in community service programs has contributed significantly to the achievement of USF's educational and service mission and goals as an urban university.

We are proud to be associated with CUTR and commend it for its continued dedication to excellence in research, education, and service.

Francis T. Borkowski
President–University of South Florida

Message from the Engineering College Dean

The Center for Urban Transportation Research has quickly become an integral part of the USF College of Engineering. By conducting outstanding research, affording excellent educational and professional experiences for students, and providing opportunities for affiliated faculty to refine and apply their knowledge, CUTR has contributed significantly to the College's mission which includes both education and research.

CUTR's accomplishments since its establishment in 1988 have far surpassed expectations. Its designation as a National Urban Transit Institute and its attainment of permanent annual funding from the Florida legislature are testament to the fact that its research, technical assistance, and technology transfer activities are of great value to our citizens.

I applaud CUTR for completing another outstanding year, and look forward to its continued success.

Michael Kovac
Dean–College of Engineering
Message from the Director

In the five years since the Center for Urban Transportation Research (CUTR) at the University of South Florida was established, it has become recognized nationally and serves as an important resource for policymakers, transportation professionals, the education system, and the public. With an emphasis on developing innovative, implementable solutions to transportation problems, CUTR provides high quality, objective transportation expertise that translates directly into benefits for its project sponsors.

A significant factor in our success and a unique aspect of the Center is the responsiveness resulting from our faculty of twelve-month, full-time employees dedicated to conducting research. These researchers complement their impressive academic backgrounds with extensive employment experience in both the public and private sectors, facilitating excellent client relations and pragmatic, implementable solutions to problems.

This has been an especially successful year for CUTR. Highlights include being designated as a National Urban Transit Institute, being granted permanent base funding of $1.5 million per year for the next five years by the Florida legislature, being awarded a $1.5 million contract by Dade County for technical assistance, and working closely and actively with our distinguished Advisory Board.

In addition, we continued to increase our staff and faculty, provided outstanding educational opportunities for student research assistants, broadened our commitment to Total Quality Management, expanded our reference center, and maintained a presence within the community by working with programs such as Adopt-A-Highway and Metropolitan Ministries.

The success of the Center is evidenced by the satisfaction of a growing list of clients, the production of numerous highly-regarded reports and publications, and research that results in change. We look forward to 1993 with great enthusiasm, proud of our accomplishments and confident that we will continue to provide high quality research for Florida and its citizens.

Gary L. Brosch
Director
Research Program

CUTR's broad-based research has resulted in innovative and implementable solutions to transportation problems. With a staff of experts in the fields of engineering, economics, planning, finance, public policy, and geography, and through cooperative work with faculty in other USF departments and State universities, CUTR provides technical support, policy analysis, and research support to a variety of agencies and organizations in Florida and the U.S.

CUTR maintained an active research agenda in 1992 by conducting both State-sponsored and contract research for a variety of agencies and organizations. Research highlights include the following:

• The Florida Legislature granted CUTR permanent base funding of $1.5 million annually for the next five years from the State Transportation Trust Fund. In addition to the major projects described on the following pages, this funding is being used to provide technical expertise and assistance to the Florida legislature, the Florida Transportation Commission, the Florida Transportation Disadvantaged Commission, the Florida Chamber of Commerce, Floridians for Better Transportation, the Westshore Transportation Management Association, the Central Florida Commuter Rail Authority, several metropolitan planning organizations and regional planning councils, and a wide variety of municipalities, agencies, and organizations.

• CUTR was designated in the Intermodal Surface Transportation Efficiency Act (ISTEA) of 1991 as a National Urban Transit Institute. Serving as the lead organization in a consortium of State universities (Florida A&M University, Florida International University, and Florida State University), the Institute will conduct $1 million per year in research over the next five years to enhance understanding of diverse transportation problems in urban areas experiencing significant growth in the United States. This presents an excellent opportunity for CUTR and the consortium to contribute to and affect national transportation policy.

• A task-order grant of $1.5 million for an eighteen-month period was awarded to CUTR by Dade County. The technical assistance and expertise provided to the County and to the Metro-Dade Transit Agency are proving valuable to southeast Florida.

With the increase in our staff in 1992 has come a strengthened expertise in areas such as transportation demand management, IVHS, transportation for the disabled and elderly, and transit, among others. As attested to in the project descriptions on the following pages, CUTR is dedicated to providing diverse, objective assistance to a variety of clients in the state and across the nation.
State Transportation Policy Initiative

Recent legislation and fiscal trends in the state of Florida and nationwide have created a unique combination of constraints and opportunities, providing an impetus for examining the way Florida conducts transportation planning. In response to these challenges, CUTR has undertaken the State Transportation Policy Initiative (STPI) as part of its base-funded research.

STPI is a multi-phase study that will address several important policy issues. These include a comprehensive evaluation of the state and local level transportation planning processes as they relate to the implementation of Florida’s growth management laws. In response to the Intermodal Surface Transportation Efficiency Act (ISTEA) of 1991, STPI will reevaluate the way transportation infrastructure and services are planned and developed at the state and local levels and formulate options for implementing ISTEA requirements. Of particular importance is the potential for linking transportation modes together for a more efficient system. The project will follow up policy areas identified by the Environmental Land Management Study (ELMS).

The principal intent of the first year of the program is to gather and analyze information about current and future conditions; subsequent phases will focus on evaluating conditions and developing recommendations.

Six sample regions in Florida were selected for detailed review. Specific areas of research in Phase I of the project include:

- examination of methods employed by other states to identify transportation needs, estimate costs, make decisions, and relate land use planning with transportation
- comparison of trends and forecasts of Florida’s population and transportation characteristics with those of other states
- examination of the “cost of sprawl”
- examination of the effect of different land use mixes and community design on transportation needs
- examination of the role of transit and transportation demand management in meeting the transportation needs of Florida’s communities, as well as other issues such as level of service standards and the impact of the concurrency doctrine.

Each of these areas of research will result in a “white paper.” The project is being guided by a Steering Committee, which oversees research progress, and a Technical Advisory Group, which provides technical input.

Sponsoring Agency: Florida Legislature
National Urban Transit Institute

The Intermodal Surface Transportation Efficiency Act (ISTEA) of 1991, a $151-billion, six-year highway and mass transit bill, established a National Urban Transit Institute at CUTR. The bill authorizes funding of $1 million annually from 1992 to 1997 to CUTR and a consortium of Florida A&M University, Florida State University, and Florida International University to conduct research in rapidly growing urban areas. The objective of the Institute is to combine 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 U.S. citizens. The Institute’s focus will be on issues critical to the future success of transit such as integration of transportation and land use, adoption and utilization of high technology to solve transit problems, coordination of the multiple jurisdictions and entities involved in providing transportation services, development of methods to carry out multimodal and intermodal planning, and changes to the transit industry to reflect the evolving social and demographic changes taking place in this country. Specific areas proposed for study during the first year include urban transportation model evaluation, evaluation of the impact of national demographic and technological trends on future transit efficiency, assessment of environmental effects of urban transit systems, evaluation of financing strategies for high speed rail and magnetic levitation systems, marketing of alternative transportation, evaluation of land use methods for altering travel behavior, analysis of Nationwide Personal Transportation Study and Census Journey-to-Work data, IVHS applications in transit, and paratransit and land-use planning. These projects are expected to commence in 1993.

Sponsoring Agency: U.S. Department of Transportation

Long-Range Transit Operations Planning Study

This research effort involves investigating methods that are being used to design feeder and related transit service operating plans developed as part of the alternatives analysis process. The intention is to develop guidance that will support improved methods for planning of alternative transit capital improvements. Operations planning processes and methods that provide aid to local operations planning efforts will be identified, and methods to enhance the overall service quality and cost effectiveness of the plans developed to support alternative transit investments will be provided. The result of this effort will be a chapter on operations planning guidance for incorporation into Procedures and Technical Methods for Transit Project Planning being produced by the Federal Transit Administration.

Sponsoring Agency: Federal Transit Administration
Advanced Public Transportation Systems (APTS)

This three-phase project will determine the applicability of intelligent vehicle highway system (IVHS) technologies to Metro-Dade Transit Agency operations. Phase I will culminate in the preparation and submittal of a demonstration grant proposal (for the top priority APTS project) to the Federal Transit Administration that best exemplifies overall needs, potential for public/private partnership, and integration with Metro-Dade Transit’s APTS Research and Development program. Phase II will consist of evaluating the demonstration project. Phase III will include the actual implementation of selected APTS projects.

Metro-Dade Transit Survey Design

In this project, CUTR is designing survey instruments for an on-board survey of Metro-Dade Transit patrons and an urban area travel survey. On-site data will be collected, and CUTR will work with Dade County staff to review and determine objectives of the surveys, availability of operators to aid in administration of the surveys, and other related activities. The final report will detail the process of selecting the survey methods and instruments chosen, including assessments of various approaches and the rationale for choosing the final methods and forms.

Metro-Dade Transit Joint Use Policy Review

This project supplements joint development work currently under way in Dade County. CUTR is reviewing the Metro-Dade Transit Joint Use Policy, expanding it to include all modes, and preparing a work program for joint development master planning. Key administrative participants in the joint use arena have been interviewed, and current and planned transit facilities are being reviewed. Representative samples of local, national, and international joint use efforts have been reviewed and elements that made those projects successful or unsuccessful that may be applicable to Dade County have been identified.

Transportation Utility Fee Feasibility Study

CUTR is researching the legal and economic implications of adopting a transportation utility fee in Dade County to fund transportation infrastructure investment, maintenance, and operations. Such a fee may have broader statewide applications if statutory and legal issues are successfully resolved. This effort is unique in that it involves a fee that would support both roadway and public transit investments. This type of revenue mechanism may provide a reliable, equitable basis for raising revenues to support transportation investment needs.
Bus Operators’ Procedures Manual Review

CUTR is preparing a bus operators’ procedures manual for Metro-Dade Transit Agency (MDTA) bus operators. This includes establishing goals and objectives for the manual, reviewing preliminary work prepared by MDTA staff, interviewing key managers within MDTA, and analyzing pertinent literature applicable to federal, state, and local requirements. The resultant product will assist operators in the conduct of their responsibilities and support improved services for MDTA. The manual is envisioned as a model for additional employee procedures manuals for MDTA personnel.

Congestion Mitigation

CUTR is studying the potential of promoting increased use of public transportation in downtown Miami and enhancing pedestrian movements between the Metromover College/Bayside and College North stations, Miami-Dade Community College, and Bayside Marketplace. A final report will be produced that includes recommendations for the development of an integrated transportation/campus plan, land use and transportation improvements, and project phasing, schedules, and costs. This project is being done in conjunction with Miami-Dade Community College and the local private sector.

Fare Cross-Elasticities

CUTR is obtaining information on the usage patterns and behavior/motivations of Metro-Dade Transit Agency patrons who purchase monthly passes. From this, cash fare and pass fare cross-elasticities and methodologies for forecasting the impact of fare structure changes on method of fare payment will be developed. In addition, this information will be used to review allocation of pass revenues to bus and rail modes. A model to allocate pass revenues among modes will be revised, and a second model to forecast pass use and revenues as a result of changes in fare structure will be developed.

Tri-Rail Service Extension Study

CUTR is providing technical and research support to Dade County in the analysis and development of a proposal for expansion of Tri-Rail services and facilities to better serve the patrons in southeast Florida. Options being evaluated include southern extensions in Dade County and a spur to Joe Robbie Stadium. This will involve coordinating a project team of local agencies, compiling cost and revenue information into a conceptual financial plan that identifies funding scenarios, and developing a preliminary financial plan.

Sponsoring Agency: Dade County
Performance Evaluation of Florida’s Transit Systems

As a result of Florida legislation requiring that the Florida Department of Transportation and each transit system develop and report on transit system performance, CUTR conducted performance evaluations of Florida’s urban fixed-route transit systems using 1989 and 1990 data. Following a previous evaluation conducted by CUTR that used 1988 data, these studies consisted of three parts: a trend analysis, a peer review analysis, and a comprehensive executive summary. In the trend analysis, performance indicators and measures for the previous five years were reviewed to determine how individual systems and the state as a whole have performed over time. In the peer analysis, performance measures of Florida’s transit systems were compared with similar systems within Florida and across the country.

Sponsoring Agency: Florida Department of Transportation

HART Maintenance Evaluation

Under contract with Hillsborough Area Regional Transit (HART), CUTR worked with a team comprised of outside experts and HART personnel to evaluate HART’s maintenance operations and to develop a strategic action plan for improving maintenance. This effort reviewed a range of factors including physical facilities, equipment, organization, training, staffing, and management information system support. The resulting recommendations were developed in conjunction with HART staff and include an action plan that identifies specific changes, timetables, and responsible parties. The objective of this study was to identify modifications that would improve existing bus service for Hillsborough Area Regional Transit.

Sponsoring Agency: Hillsborough Area Regional Transit

Analysis of NPTS & Census Journey-to-Work Data

CUTR conducted an analysis of the 1990 Nationwide Personal Transportation Study (NPTS), a national survey sponsored by the Federal Highway Administration. A report entitled *NPTS Demographics and Travel Behavior: A Comparison of Florida and the United States* was completed in which comparisons between Florida and the United States are made to determine similarities and differences in various demographics and travel behavior characteristics. This report is the first of a three-book series to be prepared by CUTR. The second book will focus on the results of the 1990 Census Journey-to-Work information. A third book will provide a more comprehensive analysis of NPTS and Census Journey-to-Work data, including interpretations and conclusions.

Sponsoring Agency: Florida Legislature
Key West Transit Development Plan

Through a contract with the Florida Department of Transportation, CUTR is assisting the City of Key West in the preparation of a transit development plan, as required by Florida Statutes. The plan will assess transit needs, develop a staged implementation program to meet the identified needs, and integrate transit goals and objectives with those of other adopted plans, including local comprehensive plans. Efforts included establishing a review committee; compiling demographic, economic, and transportation data; analyzing institutional alternatives; assessing the feasibility of contracting of system elements; and conducting demand estimations and needs assessments for transit ridership.

Sponsoring Agency: Florida Department of Transportation District VI

Five-Year Statewide Transit System Plan

CUTR is developing a five-year statewide urban transit system plan for Florida for fiscal years 1995/96 through 1998/99. Local transit development plans, local metropolitan area transportation plans, and elements of local comprehensive plans that address transportation and transit will be incorporated, and a list of proposed capital and operating projects will be identified. How public transit needs are integrated and coordinated with other modes will be addressed, as will a variety of approaches for estimating statewide transit needs. The plan will identify projects where funding sources have been appropriated as well as projects for which no funding source is currently indicated. Various scenarios will be presented that indicate transit expenditures necessary to meet different levels of demand and service.

Sponsoring Agency: Florida Department of Transportation

Manual on Transit Development Plans

CUTR is producing a manual to assist in the development of transit development plans (TDPs) as required by Florida Statutes. The manual will serve as a guide for transit agencies and MPOs in preparing and updating TDPs. It will outline the role of the TDP in the overall planning process and explain the relationship between the transit development plan, the urban transportation plan, the transportation improvement plan, the state comprehensive plan (land use), and the new federal requirements concerning congestion management. In addition, the manual will outline other requirements, recommended approaches, methodologies, organization, and content. As part of the project, a workshop will be conducted to discuss findings from a review of current TDPs and proposed improvements.

Sponsoring Agency: Florida Department of Transportation
Tri-Rail Service Extension to Pratt & Whitney Facility

This study focused on the possibility of a service extension to the Pratt & Whitney facility in southeast Florida and included an evaluation of both the commercial and residential land uses north of Tri-Rail’s West Palm Beach station, the northernmost station for existing service on Tri-Rail’s 67-mile route. CUTR conducted a market assessment to determine the potential for additional commuter rail ridership, and potential markets adjacent to the line between the West Palm Beach station and the Pratt & Whitney facility were reviewed. It was determined that the potential for additional Tri-Rail ridership in North Palm Beach County would be modest, given current conditions, but would likely increase in the long term if development continues.

Sponsoring Agency: Tri-County Commuter Rail Authority

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Tri-Rail On-Board Survey

CUTR is compiling and analyzing the results of a comprehensive on-board survey of southeast Florida’s Tri-Rail riders, which was administered by Tri-Rail staff. The survey was conducted to determine current patrons’ demographic information, travel behavior, and general satisfaction with the system. A primary objective of the analysis will be to compare the results of this on-board survey with the results of CUTR’s 1991 Tri-Rail on-board survey to identify trends and relationships over time. In addition to the comprehensive survey analysis, CUTR will also analyze the survey results in relation to the impacts of Hurricane Andrew on Tri-Rail ridership. Two separate reports will be written that will detail the results and analysis of these efforts.

Sponsoring Agency: Tri-County Commuter Rail Authority

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Opa-Locka Station Evaluation

CUTR assisted Tri-County Commuter Rail Authority in evaluating the feasibility and impact of adding a passenger station at Opa-Locka. The primary focus of the review was on the transportation, economic development, and community impacts of adding a station to the existing line. Based on findings, particularly as they related to the potential for ridership at the station, it was recommended that Tri-Rail not invest resources in station improvements and incur additional operating costs to provide the service at this time, since the market already has access to good service at adjacent or nearby Tri-Rail stations.

Sponsoring Agency: Tri-County Commuter Rail Authority
Escambia County Transit Development Plan

CUTR completed a comprehensive Transit Development Plan for Escambia County (Florida) that will serve as a strategic guide for transit improvements in the Pensacola/Escambia County region over the next five years. The plan includes a series of findings and recommendations in the general categories of passenger information and marketing, service, organization, funding resources, and facilities. Elements of the study included an on-board survey of existing riders, a poll of bus operators, a peer review transit study, transit goals and objectives, demographic and economic data for Escambia County, a trend analysis of ECTS performance measures, estimates of transit demand and of unmet mobility needs, and a financial plan.

Sponsoring Agency: Pensacola Urbanized Area Metropolitan Planning Organization

Florida Maintenance Training Program

CUTR and the Florida Department of Transportation entered into a joint participation agreement to provide maintenance training resources to public transit agencies throughout Florida. CUTR's responsibility in the project includes acting as a broker in delivering classroom and laboratory maintenance training for transit mechanics; establishing a resource center that provides training programs, audiovisual materials, and reference materials to Florida transits on a free-loan basis; conducting advisory committee meetings; producing and distributing a quarterly newsletter covering maintenance training activities, training tips, and new training programs; and supervising and evaluating training sessions conducted as part of the program.

Sponsoring Agency: Florida Department of Transportation

Okaloosa County Transit Development Plan

CUTR completed a five-year transit development plan for Okaloosa County as required by the Florida Department of Transportation. Okaloosa Coordinated Transportation, Inc., (OCT) has operated demand-responsive transit service since 1988 and has experienced dramatic growth in ridership and service. Through extensive local involvement, including interviews with community leaders and an on-board survey administered by OCT, CUTR identified demographic and travel characteristics of current riders as well as community perceptions of the system. Comparisons with similar paratransit systems in Florida were made that highlighted strengths and weaknesses of existing operations. The five-year plan contains 26 specific recommendations in the areas of service, marketing, and administration.

Sponsoring Agency: Ft. Walton Beach Urbanized Area Metropolitan Planning Organization
Privatization in Public Transit

In an effort to examine transit privatization ventures in Florida, the Florida Department of Transportation contracted with CUTR to provide a better understanding of privatization’s history and evolution, the conditions that lead to its use, and how it has been applied and promoted in Florida and the U.S. Research efforts include a review and assessment of privatization initiatives across the country and identification of contracting activities among Section 9 transit operators in Florida. Issues identified as a result of the research were noted, including contract design and enforcement and labor issues, and two technical memoranda were prepared. The project will culminate in the development and production of a handbook aimed at assisting agencies in Florida that are interested in pursuing competitive contracting of services.

Sponsoring Agency: Florida Department of Transportation

Functional Classification of Florida’s Roadways

The Florida Legislature commissioned CUTR to develop a new system for classifying Florida’s roads and for determining jurisdictional responsibility. CUTR developed classification criteria and recommended appropriate level of service and access standards for roads of different classes. Seven ownership criteria were determined and recommended, as were four classification criteria. Implementation of CUTR’s recommendations is under review. The fiscal impacts of the proposed classification system are currently being analyzed. The fiscal impacts being considered include the additional fiscal responsibility incurred by local governments associated with state roads that transfer to local control, as well as additional state fiscal responsibility for local roads transferred to the state.

Sponsoring Agency: Florida Legislature

Parking and Local Transit Policies

CUTR is engaged in a study to investigate the relationship between local parking policies and local transit policies. Approaches for coordinating these policies to increase transit use and increase the cost effectiveness of public investments in parking and transit will be identified. Factors affecting mode choice decisions as well as the impacts of current parking and transit policies in four selected Florida urban areas and urban areas in other states are being evaluated. From this evaluation, a range of actions that would support complementary transit and parking policy will be outlined. Finally, specific recommendations for implementation by appropriate levels of government will be developed.

Sponsoring Agency: Florida Department of Transportation
Feasibility of Safety Restraints in School Buses

At the request of the Florida Legislature, CUTR researched the feasibility of installing safety restraints in large school buses to determine the safety of the restraints, assess the benefits compared to the costs, and identify legal, liability, and enforcement issues. Phase I of the project included a comprehensive literature review of U.S. and Canadian crash and sled tests, review of statistical safety records of buses in the U.S., and assessment of findings. Phase II consisted of a descriptive analysis of Florida school bus accident data, a summary of professional, expert, and interest group opinions and related issues, a safety cost-benefit analysis, and identification of future actions and recommendations. A comprehensive final report will be issued upon completion of the study.

Sponsoring Agency: Florida Legislature

Analysis of Compliance with Florida’s Motorcycle Helmet Laws

The State of Florida currently has no baseline data on helmet use by motorcyclists. Data from the 1990 Florida Traffic Accident Report suggest that the actual usage rate may be below 80 percent. In addition, some Florida motorcyclists are using helmets which do not conform to federal standards. CUTR will conduct a statewide survey to estimate the number of motorcycle operators and passengers wearing helmets which meet federal standards. CUTR will conduct this study using a probability-based survey design utilizing a stratified sampling plan pre-approved by the National Highway Traffic Safety Administration. This study will provide baseline helmet use data for use when evaluating the effectiveness of future projects to encourage the use of motorcycle helmets.

Sponsoring Agencies: Florida Department of Transportation-State Safety Office and the National Highway Transportation Safety Administration

Corridor Safety Improvement Plans

CUTR has developed and is in the process of implementing evaluation plans for two corridor safety improvement programs (CSIPs) in central Florida. CSIPs are innovative programs with goals of reducing the number of motor vehicle crashes and their associated deaths and injuries. Project countermeasures being evaluated include increased law enforcement efforts, engineering improvements, improved emergency medical response times, and public information and education campaigns. CUTR is performing both process and impact evaluations of the two CSIPs. The process evaluations will result in an implementation manual which will be prepared and widely disseminated. The impact evaluation data will be reported as effectiveness measures of the project in reducing crashes, deaths, and injuries.

Sponsoring Agency: Florida Department of Transportation
Integration of Commute Alternatives into the Growth Management Process

CUTR, the Florida Department of Transportation, and the Florida Department of Community Affairs-Florida Energy Office designed and produced a program to promote transportation demand management (TDM) measures throughout the state of Florida. This multifaceted program educated Florida residents, agencies, and businesses on the benefits of implementing TDM strategies such as car and van pooling, transportation management associations, and alternative work hours. The project consisted of production of the Commute Alternatives Systems Handbook, which introduces the concept of TDM; the Program Director's Manual, which gives specific information on TDM implementation; a TDM video; and two series of 20 workshops presented across the state, each based on the manuals and attended by over 700 people.

Sponsoring Agencies: Florida Department of Transportation, Florida Department of Community Affairs-Florida Energy Office

TMA Clearinghouse

The Florida Department of Transportation and the Florida Energy Office contracted with CUTR in 1991 to establish the TMA Clearinghouse, a service developed to foster the formation of transportation management associations (TMAs) in Florida and across the nation. Now in its second year, Clearinghouse activities include maintenance of a resource center of TDM materials; production of a national newsletter, the TMA Clearinghouse Quarterly, which details current events and information in the TDM area; provision of assistance upon request to district FDOT offices with the formation of TMAs or assistance to existing TMAs and to the Florida Commuter Assistance Program; and development of formal evaluation criteria to be used by FDOT to monitor the performance of Florida TMAs.

Sponsoring Agencies: Florida Department of Transportation, Florida Department of Community Affairs-Florida Energy Office

TDM Certification and Training Program

As an extension of the "Integration of Commute Alternatives into the Growth Management Process" project, CUTR is researching and designing a TDM certification and training program. This program will provide intensive training in TDM to state and local decisionmakers, employers, developers, and others to facilitate the implementation of TDM across the state and to ensure that qualified personnel are available for staffing of the programs. Working with a Steering Committee comprised of TDM professionals, State agency representatives, and others, CUTR will research existing TDM training programs across the country, develop an intensive curriculum and training materials, and implement the courses.

Sponsoring Agencies: Florida Department of Transportation, Florida Department of Community Affairs-Florida Energy Office
Capital Center Commuter Assistance Program

CUTR continues to provide technical assistance in the development and implementation of a commuter assistance program and demonstration transportation management association (TMA) for the Capital Center area of Tallahassee. Initially a cooperative effort among CUTR, the Florida Department of Transportation, and Florida State University, the Capital City TMA was established in 1992. Currently under contract with Florida State University, CUTR is assisting the TMA in developing an organizational structure and bylaws, determining appropriate fee structures, and making provisions for legal arrangements and program design. Additional assistance includes development of a program budget and support and assistance with ridesharing software.

Sponsoring Agency: Florida State University

Bay Area Commuter Services

The Florida Department of Transportation contracted with CUTR to develop and implement a regional commuter assistance program in the Tampa Bay area. Activities of the project included research and recommendation of an institutional framework for the program, development of an action plan, assistance with recruitment of a general manager and organization of a Board of Directors, assistance with incorporation, development of bylaws, administration of a subcontract providing funding for the program’s start-up and operation, development of a staffing plan, and procurement and initial operation of a rideshare matching system. The program began operation in 1992 and serves a four-county area including Hillsborough, Pinellas, Pasco and Hernando counties.

Sponsoring Agency: Florida Department of Transportation

Cocoa Beach/A1A Mobility Study

At the request of members of the Brevard County legislative delegation, CUTR is assisting the City of Cocoa Beach in developing a solution to the mobility problems on State Road A1A. The study will evaluate the transportation demands in the corridor and review the potential for transit as an option to meeting community transportation needs. Current transit usage and service in the Cocoa Beach area have been reviewed, and a survey of employee travel behavior has been administered at identified work locations in Cocoa Beach and Cape Canaveral as well as at the Kennedy Space Center. The types of transit options that have been identified include express bus service, local fixed-route service, specialized fixed-route service, and a combination.

Sponsoring Agency: Florida Legislature
Florida Statewide Five-Year Transportation Disadvantaged Plan

At the request of the Florida Transportation Disadvantaged Commission, CUTR developed a five-year plan that identifies the current and future needs of Florida's transportation disadvantaged population, reviews and evaluates the coordination of existing transportation services in each service area, develops service performance measures, and recommends service delivery improvements. Technical memoranda produced as part of the project provide a historical perspective of TD services in the state, a statewide trend and peer analysis of community transportation coordinators and Section 9 operators, demand forecasts for TD services from 1992 through 1996, cost and funding needs estimates, and a discussion of policy issues, goals and objectives, and implementation strategies.

Sponsoring Agency: Florida Department of Transportation

Five-Year Transportation Disadvantaged Plans

CUTR developed the five-year plan for the provision of transportation services to transportation disadvantaged (TD) persons in Dade County, Florida. CUTR analyzed existing data and development plans and surveyed local TD operators. Draft goals and objectives and projected TD demand and funding in Dade County for the next five years were also prepared. The five-year plan includes service alternatives, cost estimates, and monitoring procedures. CUTR also assisted in the development of a similar plan for Hillsborough County. TD population by discrete groups and demand for TD service in Hillsborough County over five years were estimated and projected.

Sponsoring Agencies: Miami Urbanized Area Metropolitan Planning Organization, Tampa Urban Area Metropolitan Planning Organization

Beach Park Traffic Intrusion Study

CUTR is performing a study of the problems associated with traffic intrusion into the Beach Park neighborhood of southwest Tampa to evaluate possible solutions. Comprehensive field traffic studies have included origin-destination studies and vehicular speed studies through the neighborhood. Solutions will be developed for discouraging through-traffic and high-speed traffic. These solutions may include implementation of speed humps, four-way stop signs, and one-way street systems, as well as converting streets to cul-de-sacs. A final report will include summaries of the field traffic studies, presentation of the findings, and recommendations for solutions and implementation.

Sponsoring Agency: City of Tampa
LYNX CTC Transition/Five-Year TD Plan

Tri-County Transit (LYNX) in the Orlando area retained CUTR to provide technical assistance to LYNX in assuming the role of community transportation coordinator (CTC) in the provision of transportation services to transportation disadvantaged persons. Assistance will also be provided in the preparation of the county's Five-Year Transportation Disadvantaged Plan. Specifically, CUTR is providing information on methods for handling the distribution of funds for the transportation disadvantaged by agencies such as Medicaid and the United Way, and assisting with the actions necessary for providing a smooth transition between the current CTC and LYNX. CUTR is also reviewing the proposed transportation disadvantaged program design, including the development of a five-year transportation disadvantaged plan.

Sponsoring Agency: LYNX-OSOTA

TD Research Services

CUTR is working on a variety of projects for the Florida Transportation Disadvantaged Commission, including development of needs-based procedures to determine trip priorities, development of a methodology for forecasting transportation disadvantaged trip demand at the county level, and development and production of a series of workshops. The first workshops taught local community transportation coordinators (CTCs) and their local coordinating boards how to allocate transportation costs and how to develop fare structures that are "fair" for the purchasers of service, yet allow providers to break even. The second workshops will teach CTCs and their local coordinating boards how to evaluate the costs of providing TD services under a variety of options.

Sponsoring Agency: Florida Transportation Disadvantaged Commission

Analysis of Transportation Disadvantaged Insurance Issues

Florida coordinators and contractors of services for the transportation disadvantaged experienced a 150 percent increase in insurance costs between 1985 and 1989. CUTR explored the possible causes for this increase and reviewed data on costs from 1987 through 1992. The risk management practices of several TD transportation coordinators and contractors in other states were also examined and recommendations for stability in insurance costs were recommended. Historical issues, Florida's experience, national developments, issues for Florida's TD systems, insurance purchasing alternatives, recommendations, future implications, and detailed survey and insurance data will be presented in a comprehensive summary report.

Sponsoring Agency: Florida Transportation Disadvantaged Commission
ADVANTAGE I-75

ADVANTAGE I-75 is a multi-state/province initiative intended to improve motor carrier productivity and to achieve more efficient state truck monitoring operations using automatic vehicle identification (AVI) technology. The design concept provides for integration of AVI, driver notification, computer and communications networking, scale system interfaces, automatic vehicle classification, database management, weigh station operation interfaces, and compliance verification. CUTR quantified the magnitude of potential benefits and costs to motor carriers, to individual states/provinces, and to the overall ADVANTAGE I-75 corridor at weigh/enforcement stations resulting from the implementation of an IVHS system such as ADVANTAGE I-75.

Sponsoring Agency: Florida Department of Transportation, Office of the State Highway Engineer

Electronic Toll and Traffic Management (ETTM) Systems

CUTR was selected by the Transportation Research Board to prepare a synthesis report on Electronic Toll and Traffic Management (ETTM) systems. The report is being prepared for the primary purpose of sharing general information regarding ETTM systems, such that the evaluation and decisionmaking process may be more enhanced and productive. The synthesis report discusses the role of ETTM in transportation, alternative technologies, system design considerations, institutional and implementation issues, traffic management applications, traveler information services, status of major ETTM projects, the results of CUTR's operator and vendor survey, and future directions for ETTM systems. Final report preparation will be completed in mid-1993.

Sponsoring Agency: The National Academy of Sciences-Transportation Research Board

Electronic Toll Collection Field Performance Evaluations

CUTR was selected by the Florida Turnpike Office to serve as field manager for performance evaluations of AVI/ETTM systems. The primary purpose of the evaluations was to provide first-hand knowledge and insight to FDOT in its development of an AVI/ETTM technology performance specification. Five vendor teams participated in the examination of “read-write” technologies, each being subjected to 24 hours of evaluation over a three-day period. Ten different types of vehicles operating at different speeds and in various configurations were utilized in the evaluations. CUTR developed and maintained a performance evaluation diary, coordinated electronic verification measurements, and catalogued the evaluations on videotape. Findings will be documented in a final report.

Sponsoring Agency: Florida Department of Transportation, Florida Turnpike Office
TravTek

CUTR is participating in a team effort to evaluate one of the first operational intelligent vehicle-highway systems (IVHS) in America. This project is being conducted in Orlando where drivers of specially-equipped vehicles are provided with up-to-date traffic information, directions to destinations, and information about area attractions, accommodations, and services. CUTR’s role in the project includes assistance with the development of the questionnaire used to gather driver perceptions and opinions about the project, management of data entry, and validation of questionnaires. CUTR will also participate in the overall evaluation at the end of the project to help determine the extent to which the project advanced the state of the art in IVHS and the economic benefits of the project to the Orlando area.

Sponsoring Agencies: Florida Department of Transportation, Federal Highway Administration, City of Orlando, General Motors, AAA

Electric Vehicle Site Operator Program

CUTR teamed with the USF Electrical Engineering Department, Florida Power Corporation, Tampa Electric Company, and the City of Tampa to develop an Electric Vehicle Site Operator Program for the testing and evaluation of electric vehicles under actual operating conditions. CUTR is evaluating the economics of these vehicles by quantifying capital and operating costs of the program and assessing societal benefits and vehicle ergonomics. The three-year program is testing five commuter cars and several utility vans which are parked under a structure covered with photovoltaic panels and charged during working hours.


Integrated Transportation Information Center

This project is one of three national “early deployment” traveler information/management projects in the southeast U.S. CUTR is developing an action plan for the implementation of an integrated transportation information center for the Tampa Bay area. A project Advisory Group of public and private transportation agencies in Tampa has also been established to provide input and offer guidance in the formation of the action plan. Various methods for obtaining real-time traffic data, integrating it into a reliable and current database, and disseminating condition information to the traveler in a usable and timely manner will be examined. The result will be an action plan that can be used for the implementation of a recommended system.

Sponsoring Agency: Federal Highway Administration, Florida Department of Transportation, Florida Turnpike Office
Education Program

Contributing 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 in student organizations and activities, serving as thesis advisers, assisting students with job placement, teaching transportation and related courses, and working toward the development of an interdisciplinary transportation program at USF, CUTR faculty are dedicated to the professional and educational development of students in the College of Engineering and throughout the University of South Florida. 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 1992, positions as research assistants were awarded to 13 graduate and undergraduate students from a variety of disciplines. Their skills in research, statistical analysis, 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 CUTR faculty, attending and making presentations at local, state, and national conferences and meetings, and maintaining involvement in professional organizations and societies.

In 1992, several of CUTR's student assistants attended and made presentations at the annual meetings of the Transportation Research Board, the Florida Transit Association, the Institute of Transportation Engineers (ITE), and the American Society of Public Administration. USF's ITE Student Chapter placed first in the district competition and second in the national competition for Outstanding Student Chapter and brought speakers on transportation and related issues to the campus. Eight students graduated and were employed across the state by firms that specialize in engineering, planning and development, commuter services, and economic analysis. A CUTR Scholarship Fund was established to provide assistance to students seeking careers in transportation in cooperation with the Graduate Interdisciplinary Transportation Program.

1992 Student Research Assistants

Terry Agee, Mechanical Engineering
Lisa Argiry, Public Health
Lori Burns, Geography
Mike Elfers, Civil Engineering
Joe Hagge, Geography
Gerry Harter, Civil Engineering
Brigitta Keitgen, Economics
Visla McKale, Business

Michael Neidhart, Public Administration
Ba Pham, Civil Engineering
Rachel Robinson, Business
Tony Rodriguez, Engineering Management
Fadhely Vitoria, Civil Engineering
Michael Yates, Civil Engineering
Mitch York, Economics
Faculty

Gary L. Brosch, Director. M.S., Economics, Florida State University; B.S., Economics, University of South Florida. Research interests: urban community economic analysis, innovative financing, urban mobility, transportation innovations, total quality management.

F. Ron Jones, Deputy Director for Planning. Ph.D., Urban Planning and Economics, Massachusetts Institute of Technology; M.C.P., Transportation Planning, University of California-Berkeley. Research interests: transportation planning, elderly and disabled transportation, urban and regional economics, public policy analysis.

Edward A. Mierzejewski, P.E., Deputy Director for Engineering. M.S.C.E., Transportation System Analysis, Massachusetts Institute of Technology; B.S., Civil Engineering, Worcester Polytechnic Institute. Research interests: transportation systems management, environmental impact analysis, traffic and parking studies, highway planning, transportation economics, transportation planning.

Thomas L. Miller, Deputy Director for Training. Ph.D., Highway Traffic Safety, Michigan State University; M.E.D., Traffic and Transportation Safety, Miami (Ohio) University; B.S.E.D., Social Studies, Bowling Green State University. Research interests: transportation safety, transportation maintenance, hazardous materials safety, program evaluation, human factors, IVHS, drug abuse interdiction.

Steven E. Polzin, P.E., Deputy Director for Policy Analysis. Ph.D., Civil Engineering-Transportation, Northwestern University; M.S.C.E., Urban Systems Engineering, Northwestern University; B.S.C.E., University of Wisconsin-Madison. Research interests: public transportation, public policy analysis, transportation planning, system evaluation, planning process design, mobility analysis.

William L. Ball, Research Associate. M.A., Economics, University of South Florida; B.S., Economics/Political Science, Florida Southern College. Research interests: urban and regional economics, transportation planning and economics, public transportation, privatization, demographic and travel behavior analysis.

Daniel K. Boyle, Senior Research Associate. M.R.P., City and Regional Planning, Cornell University; B.A., Urban Sociology, Cornell University. Research interests: transit operations planning, public policy analysis, transportation planning, statistical analysis, transportation systems management, transit marketing, fare structure.

Stacey G. Bricka, Research Associate. M.A., Economics, University of South Florida; B.A., Economics, Eckerd College. Research interests: survey design and analysis, IVHS, privatization, transportation safety, total quality management.

Michael Brooks, Research Associate. M.A., Urban and Regional Planning, University of Florida; B.A., Political Science, University of Florida. Research interests: growth management, land use law, comprehensive planning, land use/transportation linkages.


Glenn A. Burdick, Dean Emeritus. Ph.D., Massachusetts Institute of Technology. Research interests: electrical aspects of transportation, transportation safety, accident reconstruction, electromagnetic field theory, semiconductor physics, microelectronics.

Patrick Griffith, Senior Research Associate. M.S., Transportation Engineering, Villanova University; B.S., Economics, University of Pennsylvania. Research interests: transportation finance and economics, transportation operations analysis, transportation planning.
Patricia Henderson, Research Associate. B.A., Political Science, University of South Florida. Research interests: publications design and management, conference coordination, transportation demand management, communications.

Sara J. Hendricks, Research Associate. M.R.P., City and Regional Planning, University of North Carolina-Chapel Hill; B.A., Film Production, The Pennsylvania State University. Research interests: land use planning and growth management, transportation systems management, traffic and environmental impact analysis, bicycle facilities planning, communications.

Eric Hill, Research Associate. M.P.P., Public Policy, Rutgers University; B.S., Management Science, Rutgers University. Research interests: transit planning, public policy analysis, data analysis, transit service and operations planning, survey design and analysis, IVHS applications in transit.

Dennis Hinebaugh, Research Associate. B.S., Social Science, Michigan State University. Research interests: transit system planning, rail transit planning, transitways, short and long range capital and operating planning.

Patrick Jeffers, Research Associate. M.S., Transportation Planning & Engineering, Polytechnic University of New York; M.B.A., Computer Information Systems, Baruch College; B.S., Economics, University of The West Indies. Research interests: traffic engineering, artificial intelligence applications in transportation planning, mainframe and microcomputer applications in transportation.

Anne Kail, Research Associate. M.A., University of Florida. Research interests: special events planning and coordination, proposal writing, communications.


Rosemary Mathias, Senior Research Associate. M.B.A., Management, Boston University; M.P.A., Public Affairs, Indiana University; A.B., Geography/Journalism, Indiana University. Research interests: elderly and disabled transportation, transit operations management, public policy analysis, strategic planning.

Perry J. Mauil, Senior Research Associate. M.B.A., Urban Transportation Management and Marketing, Indiana University; B.S., Business Administration, Indiana University. Research interests: urban transit management and operations, transportation demand management, public transportation policy, transportation disadvantaged policy and operations.

Michael C. Pietrzyk, Senior Research Associate, IVHS Program Manager. M.S.C.E., Transportation, The Pennsylvania State University; B.S., Civil Engineering, Virginia Polytechnic Institute. Research interests: feasibility analysis, conceptual design, intelligent vehicle-highway systems, electronic toll and traffic management systems, pavement management, transportation planning, traffic operations.

Amy Polk, Research Associate. M.A., Urban Planning, University of Michigan; M.S., Computer Science and Engineering, University of Michigan; B.S., Computer Science, University of Michigan. Research interests: intelligent vehicle-highway systems, automatic vehicle identification, computer applications in transportation.

Joel R. Rey, Research Associate. M.S.C.E., Transportation Engineering, University of South Florida; B.S.C.E., University of South Florida. Research interests: travel behavior analysis, transportation planning, system performance analysis, public transportation, survey design and analysis.

Ronald C. Sheck, Senior Research Associate. Ph.D., Geography, University of Oregon; B.A., Geography, Sacramento State College. Research interests: public policy analysis, transportation planning, public transportation development and marketing, metropolitan and intercity rail planning, multimodal transportation systems design.

Beverly Ward, Research Associate. M.P.A., Public Administration, University of Alabama at Birmingham; B.A., Psychology, Vassar College. Research interests: transportation demand management, transportation planning and policy analysis, specialized transportation services, coordinated transportation systems, transportation demand forecasting.


Phillip Winters, Senior Research Associate, TDM Program Manager. B.S., Civil Engineering, Virginia Polytechnic Institute and State University. Research interests: transportation demand management, suburban mobility, program evaluation, total quality management.

Cindy Wooten,Administrative Manager. B.A., Accounting, University of South Florida.

Michael R. Baltes, Research Fellow. M.P.A., University of South Florida; B.A., Political Science, University of South Florida. Research interests: innovative infrastructure financing, transportation demand management, school bus occupant safety, mass transit, commuter rail, privatization, organizational theory and structure, public policy analysis, statistical analysis.

Laura C. Lachance, Research Fellow. M.A., Economics, University of South Florida; B.A., Economics/International Affairs, Florida State University. Research interests: transportation economics, public policy analysis, elderly and disabled transportation.

Staff
Patricia Baptiste, Senior Secretary
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Donna Contino, Assistant to Administrative Manager

Joy Eaton, Clerk
Sylvia Holder, Senior Secretary
Gwen Hollis, Secretary
Elsie Kennedy, Senior Secretary
Elizabeth Manning, Receptionist
Terri Oates, Project Assistant
Rebecca Rahimi, Project Assistant
Kevin Toso, Assistant to Administrative Manager
Patricia Turner, Project Assistant
Vicki Zambito, Project Assistant
Associated Faculty

Civil Engineering

**Melvin W. Anderson,** P.E., Ph.D., Carnegie-Mellon. Specialties: hydraulics, culverts, water resources, systems analysis, and fluid mechanics.

**Wayne F. Echelberger, Jr.,** P.E., Ph.D., University of Michigan. Specialties: environmental engineering, water resources, public works administration.

**Manjriker Gunaratne,** P.E., Ph.D., Purdue University. Specialties: numerical and uncertainty modeling of geotechnical and pavement systems, pavement design, management.

**Alan R. Kaub,** P.E., Ph.D., University of Wisconsin. Specialties: highway and bridge design, computerized timing and traffic simulation plans, transportation planning, surveying, signal design, and budgeting.

**Stanley C. Kranc,** P.E., Ph.D., Northwestern University. Specialties: bridges, fuel combustion, aerodynamics, fluid dynamics.

**R. Terry Murphy,** P.E., Ph.D., University of Oklahoma. Specialties: environmental engineering, air pollution control.

**Larry W. Oline,** P.E., Ph.D., Georgia Institute of Technology. Specialties: bridge inspection, shock and vibration.

**Mark A. Ross,** Ph.D., University of Florida. Specialties: cohesive sediment transport in estuaries and coastal waters, hydraulic and water quality modeling, hydrologic modeling of agricultural, mining and urban developments.

**Alberto A. Sagues,** P.E., Ph.D., Case Western Reserve University. Specialties: metallic and high temperature corrosion, mechanical wear, embrittlement of alloys, aqueous environments.

**Rajan Sen,** P.E., Ph.D., State University of New York. Specialties: bridge design, testing and analysis, dynamic response of structure, prestress concrete, dynamic behavior of piles.


**Abla Zayed,** P.E., Ph.D., North Carolina State University. Specialties: mechanical performance of materials including concrete, metals, and composites.

Computer Science

**Abraham Kandel,** Ph.D., University of New Mexico. Specialties: artificial intelligence, robotics, expert systems.

**Rafael Perez,** Ph.D., University of Pittsburgh. Specialties: artificial intelligence & expert systems development.

Electrical Engineering

**Earl Claire,** Ph.D., University of Florida. Specialties: Communications, microelectronics, signal processing.

**Larry Dunleavy,** Ph.D., University of Michigan. Specialties: measurement and modeling of microwave and millimeter wave active devices and passive components, computer-aided design of monolithic microwave integrated circuits.


**Paris H. Wiley,** P.E., Ph.D., Virginia Polytechnic Institute and State University. Specialties: biomedical instrumentation, satellite communications.

Industrial Engineering

**Paul Givens,** Ph.D., University of Texas-Arlington. Specialties: manufacturing systems, engineering management, small business development, productivity and quality enhancement.

**S. K. Khator,** P.E., Ph.D., Purdue University. Specialties: simulation, computer applications.

**Lee A. Weaver,** Ph.D., University of Florida. Specialties: applied statistics, statistical reliability.

Anthropology

**Alvin W. Wolfe,** Ph.D., Northwestern University. Specialties: applied anthropology, urban anthropology, interorganizational networks.

Architecture

**T. Trent Green, M.Arch.,** Harvard University. Specialties: urban design, architectural design.

**Julie Johnson, M.C.P.,** Massachusetts Institute of Technology. Specialties: environmental design, site design, urban design.

**James Moore,** Ph.D., University of Pennsylvania. Specialties: community planning, daylighting, architectural technology.

Communications

Economics
Joseph DeSalvo. Ph.D., Northwestern University. Specialties: urban and regional economic analysis.

Geography

Public Administration
Susan MacManus. Ph.D., Florida State University. Specialties: public administration, political science.

Affiliated University Faculty

Florida A&M University
Timmi Fadiora. M.S., Florida A&M/Florida State University. Specialties: computer modeling and applications in transportation.
Soromadi Nnaji. Ph.D., University of Arizona. Specialties: probabilistic design of civil engineering systems, engineering decision analysis and support systems.

Florida International University
David Shen. Ph.D., Clemson University. Specialties: mass transit planning, guideway transit technology, transit system design, airport planning and design, transportation policy, urban mobility research, land use/transport planning.
Yihua Xiong. Ph.D., University of Washington. Specialties: transportation planning and modeling, land use and travel demand forecasting, computer modeling, GIS.
Fang Zhao. Ph.D., Carnegie Mellon University. Specialties: computer-aided design, artificial intelligence, GIS.

Florida State University
Joseph Cronin. Ph.D., Ohio State University. Specialties: strategic transportation planning, service quality measurement.
Andrew Dzurik. Ph.D., Cornell University. Specialties: regional planning, policy analysis, systems analysis.
Ron Goldsmith. Ph.D., University of Alabama. Specialties: consumer behavior, marketing research and strategy.
Thomas A. Lynch. Ph.D., Florida State University. Specialties: transportation economics, high speed ground transportation economics, public transportation economics.
Lloyd Lyday. J.D., University of Florida. Specialties: urban community policy analysis, legal research practices.
W. Virgil Ping. Ph.D., University of Texas at Austin. Specialties: transportation engineering, materials engineering.
Melvin Stith. Ph.D., Syracuse University. Specialties: marketing, management, social psychology.
Gregory Thompson. Ph.D., University of California-Irvine. Specialties: policy analysis, transportation/land use interaction, public transportation costing and planning, demand and cost modeling.

University of Central Florida
D. Scot Leftwich. Ph.D., North Carolina State University. Specialties: transportation planning, transportation modeling.
E. Assam Radwan. Ph.D., Purdue University. Specialties: traffic operations, highway safety, traffic simulation.
Roger Wayson. Ph.D., Specialties: transportation/environmental interactions, air pollution and noise impacts of transportation.
Selected Presentations


"Computerized Transportation Planning Models for Site Impact Analysis: Precision or Complexity," American Society of Civil Engineers Specialty Conference on Site Impact Traffic Assessment, Chicago.

"Coordinating Transportation Disadvantaged Services," Iowa Program for Assistive Technology, University of Iowa, Des Moines.


"Cost/Revenue Allocation and Fare Structure Development Workshop," Florida Transportation Disadvantaged Commission, Jacksonville.


"Developing Successful TMAs," Miami Civic Center, Miami.

"Evaluation of Proposed 1-Drive Transit System," ETC, Orlando.


"Florida’s Response to the Americans with Disabilities Act," 13th National Conference on Accessible Transportation and Mobility, Transportation Research Board, Tampa.


"Insurance Issues Associated with Florida’s Transportation Disadvantaged Programs," 13th National Conference on Accessible Transportation and Mobility, Transportation Research Board, Tampa.

"Land Use Planning to Mitigate Traffic Congestion," Virginia Commonwealth University Luncheon Seminar Series, Richmond.

"Lessons to Be Learned from a New Commuter Rail System," Transportation Engineering in a New Era, Institute of Transportation Engineers, Monterey, California.

"Local Funding Options for TMAs," Ft. Lauderdale Downtown Development Authority, Ft. Lauderdale.


"Public/Private Sector Roles in IVHS," Federal Highway Administration, Washington, D.C.

"The Role of Public Transportation in Florida," Rollins College, Cocoa Beach.


"Specialized Transportation Coordination: The Florida Experience," 13th National Conference on Accessible Transportation and Mobility, Transportation Research Board, Tampa.


"TD Population and Paratransit Demand Forecasting," 12th National Conference on Accessible Transportation and Mobility, Transportation Research Board, Tampa.


"Transportation Utility Fees Come to Florida," ITE Annual Meeting, Washington, D.C.
Selected Publications


CUTRlines (quarterly newsletter), CUTR, 1992.


"Bring together the benefits of education and research to meet our changing transportation needs."

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