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Spectacular! What else can I say about CUTR’s 20-year anniversary? In moving from infancy to adolescence to adulthood, CUTR continues to fulfill the ambitious objectives of the visionaries who created us. Our vision at CUTR has been “To earn and maintain a national reputation through excellence and innovation in transportation research.” By any measure, we are living up to that vision.

Our contribution to USF’s research program has exceeded $8 million annually for the last several years and more than $80 million total since our establishment. Our research faculty are respected nationally and internationally, participating in the most prestigious conferences and academic journals. We have developed strong research programs in public transportation, intelligent transportation systems, traffic operations, safety, transportation planning, corridor management, airport systems, alternative energy, toll road systems, transportation economics, transportation demand management, and other areas. We continue to make dramatic contributions to workforce development and training and are helping to educate the next generation of transportation professionals. Our students are highly sought by the private sector and public agencies.

Our impact on major transportation policy issues in Florida is solid as we work with our great partners at the Florida Department of Transportation, the Florida Transportation Commission, public transportation agencies, MPOs, and cities and counties. We have been engaged by project sponsors in many states outside Florida, and in recent years our reach has become international, with assignments in China, India, South America, and elsewhere. Our research has been recognized at the federal level by continued funding for CUTR’s National Center for Transit Research and substantial new funding for our National Bus Rapid Transit Institute.

Our distinguished CUTR Advisory Board over the years has helped to guide our program and advocate strongly on CUTR’s behalf. The annual CUTR Transportation Achievement Award recognizes transportation champions, and the award dinner each year brings together more than 300 participants. We take particular pride in our charitable activities, most notably our sponsorship of more than 75 children each year through our “Be-A-Santa” and “Back to School” programs.

 Truly, any way you look at it, CUTR is making an enormous difference, and we expect to continue to do so for many years to come. We thank each of you who have played a part in our success over the past 20 years, and we look forward to continued collaboration in solving the numerous and mounting transportation problems in Florida, the U.S., and the world.

Edward A. Mierzejewski, PhD., PE
“The Florida Transportation Commission heartily congratulates CUTR on marking its 20-year anniversary! The Commission has enjoyed a richly rewarding relationship with CUTR from its inception, and we continue to rely on the staff’s expertise and objectivity in dealing with Florida’s complex transportation challenges and opportunities. With a representative on the CUTR Advisory Board, the Commission has had a front-row seat as the Center has grown in respect and recognition for its innovative and technical work nationally and internationally.”

Marcos Marchena, Chairman
Florida Transportation Commission

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Florida Transportation Commission

“CUTR is a model center that has contributed within its state and at the same time developed a national reputation of excellence. CUTR’s reputation is demonstrated by the major contributions it makes to national programs of the Transportation Research Board.”

Robert E. Skinner, Jr.
Executive Director
Transportation Research Board

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Robert E. Skinner, Jr.
Executive Director
Transportation Research Board

Kimberlee B. DeBosier, Chair
Bayside Engineering, Inc.

Norman Mansour, Vice Chair
Commercial Real Estate

Michael Blaylock
Jacksonville Transportation Authority

John Forney
Raymond James & Associates, Inc.

Stephanie C. Kopelousos
Secretary, Florida Dept. of Transportation

Ysela Llort
Miami-Dade County

Marcos Marchena
Florida Transportation Commission

Thomas Pelham
Secretary, Florida Dept. of Community Affairs

William V. Sheppard
Transportation Consultant

Robert E. Skinner, Jr.
Transportation Research Board

Michael Sole, Secretary
Florida Dept. of Environmental Protection
Established in the USF College of Engineering in 1988 by the Florida legislature and the Florida Board of Regents, CUTR is nationally recognized 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 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 our faculty of full-time researchers. Our multidisciplinary approach includes expertise in engineering, economics, planning, public policy, and finance to develop comprehensive solutions for all modes of transportation while combining academic and “real-world” experience.

CUTR conducts more than $8 million in research annually for a variety of public and private sector sponsors in Florida and the U.S., including federal, state and local governments, agencies, and organizations. Areas of research include transportation planning, transportation demand management, public transportation, corridor planning, GIS, safety, economics, transportation finance and administration, transportation and land use, growth management, traffic engineering and operations, and intelligent transportation systems.

**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.

“CUTR is a gem of a research center that has gained national recognition for USF. Over its 20-year history, CUTR has contributed more than $80 million to USF’s research programs and has completed more than 1,000 individual projects. Most importantly, CUTR has advanced innovative transportation solutions that have greatly benefited the citizens of Florida and the nation.”

Judy Genshaft, President
University of South Florida
NCTR was created at CUTR following Congressional designations of University Transportation Centers in 1991 and 1998 to help accomplish national goals in the areas of public transportation research, education, and technology transfer. The theme of NCTR is “To enhance the performance and relevance of public transportation and alternative forms of transportation in urban areas.” Research is focused on public transportation, including alternatives such as carpool and vanpool, telecommuting, paratransit, fixed-route bus, and guideway transit technologies, the interface of public transit with other modes of transportation, and the integration of public transit considerations in general transportation and land use planning. Funding is provided by the U.S. Department of Transportation through the Research and Innovative Technology Administration and the Florida Department of Transportation. In 2002 and again in 2006, NCTR retained its designation as a Tier I UTC through competitive processes in which as many as 36 universities vied for 10 open designations. NCTR typically completes approximately 10 major research projects each year. Ideas for the research come from a variety of sources, including the Federal Transit Administration and the Federal Highway Administration, the Florida DOT, the American Public Transportation Association, the Association for Commuter Transportation, committees of the Transportation Research Board, the Transit Cooperative Research Program, and well-respected consultants and university faculty.

RESEARCH

Since 1998, NCTR has produced 90 research reports, and all are available on the NCTR website at www.nctr.usf.edu. NCTR’s multiyear work program includes activities designed to provide decisionmakers and transportation professionals with the knowledge and information necessary to help improve the quality of public transportation services and facilities. Sample projects include:

- Ridership Models at the Stop Level
- Expanding Commuter Choice Tax Benefit Options
- Best Practices in Voluntary Driving Cessation Programs for Seniors
- National Transit Database Automated Data Collection Procedures
- Assessment of Transit Information Materials
- Worksite Trip Reduction Model and Manual
- Transit Efficiencies, Revenue Generation, and Cost Reductions
- FSUTMS Mode Choice Modeling—Factors Affecting Transit Use and Access
- Customer Surveying for Public Transit: A Design Manual
- Synthesis of Transit Non-User Surveys
- Structure/Performance Relationships of Public Transit Agencies
- Transit Customer Satisfaction Index
- Assessment of Operational Barriers and Impediments to Transit Use
- Effectiveness of Methods to Provide Enhanced Security for Bus Operators
- State Park-n-Ride Lot Program Manual Update

“NCTR is an extremely active and beneficial source of information. Its research faculty have made more than 50 presentations at APTA conferences since 2000 and are active members of various APTA committees. I strongly endorse the work that NCTR does.”

Bill Millar, President
APTA
Where Are Tomorrow’s Maintenance Technicians Coming From?
Telecommunication and Its Future Role in Public Transportation
Land Developer Participation in Providing for Bus Transit Facilities/Operations
Synthesis of Securement Device Options and Strategies
Per Capita Transit Decisions, Trends and Impacts
Developing Bus Transfer Centers for Maximum Benefit
Toolbox for Transit Event Investigation
Transit Extraboard Management—Optimum Sizing and Strategies
Repair Time Standards for Transit Vehicles
Impact of Employer-Based Programs on Ridership and Performance
Analysis of Public Transit Access Using the 2001 NHTS
A Guidebook for Start-up Transit Agencies
A Return on Investment Analysis of Bike-on-Bus Programs
Strategies for an Intra-Urban Circulator System
Teenage Attitudes and Perceptions Regarding Transit Use
Bus Accident Reporting, Tracking, and Analysis System
Model Regulations and Plan Amendments for Multimodal Transportation Districts

EDUCATION
NCTR engages in a variety of education-related activities, geared toward providing practical work experience for USF students and attracting the best and brightest to professional careers in transportation. Graduate and undergraduate students work alongside NCTR researchers on a variety of research projects, and efforts continue to determine the feasibility of offering web-based courses specifically geared to public transportation that would be offered by a national faculty, coordinated by NCTR. The Summer Transportation Education Program (STEP), geared towards high school students, provides the opportunity to learn more about careers in the field of public transportation.

TECHNOLOGY TRANSFER
NCTR employs a variety of technologies and methods for disseminating the results of its research and assisting transit professionals, students, and others with their activities:

- the NCTR web site, www.nctr.usf.edu, which provides final research reports, articles from the Journal of Public Transportation, streamed video summaries of research projects, and netcasts of seminars and workshops
- listservs on Bus Rapid Transit, teleworking, and transportation demand management, which are accessible through the web site and moderated by NCTR faculty
- netmeetings, netconferences, and netcasts
- an eNewsletter and an annual report
- the Journal of Public Transportation, a quarterly academic journal containing original research and case studies associated with various forms of public transportation, with an international subscribership of more than 2,000
- more than 40 presentations a year at professional transportation conferences, and representation on more than 20 TRB, APTA, and ACT committees

“Clearly, we are getting an enormous return on our investment in NCTR.”
Amy Stearns
UTC Program Manager
U.S. Research and Innovative Technology Administration

“We highly value the work done by NCTR. We don’t consider Florida DOT’s dollars as a match to the federal UTC grant; rather, we consider the federal dollars as a match to our investment in NCTR.”
Ed Coven, Manager
Florida DOT Public Transit Office

PROGRAM TEAM
Program Director:
Joel Volinski
Program Administrator:
Dennis Hinebaugh
Journal of Public Transportation Editor:
Gary Brosch
Program Assistant:
Lisa Ravenscroft
With increasing traffic congestion and longer travel times, the Federal Transit Administration is placing great emphasis on alternative modes of transportation, including Bus Rapid Transit systems. The National BRT Institute (NBRTI) was established at the University of South Florida in 2001 as part of FTA’s Bus Rapid Transit Initiative to facilitate the sharing of knowledge and innovation for increasing the speed, efficiency, and reliability of high-capacity bus service through the implementation of BRT systems in the U.S.

The National BRT Institute provides resources to professionals interested in BRT, including conducting and participating in local and national workshops and conferences, developing publications, conducting research, providing staff expertise, maintaining a website, and producing the *BRT Quarterly* newsletter.

Information on the activities of NBRTI and resources on Bus Rapid Transit can be found at [NBRTI.org](http://NBRTI.org).

Sample completed projects include:

- Performance evaluations of the LYNX Lymmo Project in Orlando, the South Miami-Dade Busway, and the Oakland (California) San Pablo Rapid
- Technical assistance to Hennepin County (Minneapolis), Minnesota

The following technical assistance and research activities were completed or programmed for initiation in the first two years of the program:

- Conference Chair of the TRB/APTA/FTA BRT Conference in Toronto, Canada
- Development and implementation of BRT peer-to-peer program
- Development of BRT curriculum for graduate and undergraduate level public transportation courses
- Evaluation of Los Angeles County MTC Orangeline BRT, the Eugene OR EmX BRT, and the Cleveland Silverline
- Evaluation of Miami Urban Partnership Agreement (UPA) BRT services
- Quantification of the importance of image and perception on BRT ridership
- Research on the impacts of BRT on land use
CUTR’s Mobility Policy Analysis Program focuses on transportation research and problem solving through application of state-of-the-art analysis methods and diverse data sources guided by highly credentialed and experienced research practitioners. The research topics focus on policy analysis of all modes but have shown a strong concentration on public transportation. Topic areas are diverse with extensive experience with travel behavior, transportation performance, travel safety, and transportation funding.

Researchers in the program provide technical support and planning research for the federal government, state departments of transportation, local governments, transit systems, and metropolitan planning organizations. The project team collaborates with other CUTR research programs, other USF faculty, and university and private sector experts to build the appropriate project team. Graduate research assistants, typically master’s and PhD students in engineering or other technical degree areas, leverage the staff resources in addressing research problems.

Sample projects include:

- Trends and Conditions Research Support
  Florida DOT
- Development of Alternative Measures of Transit Mode Share
  Florida DOT
- Evaluation of Transportation Funding Equity
  Florida DOT, MPOs
- Evaluation of Public Transportation Productivity Trends and Funding Challenges
  Florida DOT/NCTR
- Transit Development Planning Resource Materials and Training Support
  Florida DOT
- Transit Boardings Estimation Simulation Tool (TBEST) Technical Support Services
  Florida DOT
- National Surface Transportation Vehicle Miles of Travel Forecasts
  USDOT/AECOM
- Sampling Techniques for National Transit Database Reporting
  Florida DOT/USDOT

“I have come to rely on CUTR’s knowledge and objectivity on a wide range of transportation subjects. Its ability to contribute to practical solutions has made them the ‘go-to’ source for transportation information.”

The Honorable Richard Glorioso
Florida House of Representatives

**MOBILITY POLICY ANALYSIS**

**PROGRAM TEAM**

Program Director:
Steve Polzin

Research Manager:
Xuehao Chu
CUTR’s TDM program delivers practical, proven solutions to today’s transportation needs through choice of travel mode, time, frequency, trip length, cost, and route program by means of research, training, and technical assistance efforts. Our commitment is to advance collaborative communications and learning to facilitate the transfer and application of the team’s extensive expertise and knowledge. To improve the performance of tactics aimed at improving already-successful solutions, fostering the evolution of existing polices, programs and services, and developing innovative solutions, TDM strategies include encouraging the use of alternatives to the single-occupant vehicle such as bicycling; fostering the adoption of work-life programs such as compressed workweeks, commuter benefits, and telework; and applying parking management tactics such as preferential treatment for carpools and parking pricing. Other activities include development and maintenance of the industry-leading listservs with more than 1,250 TDM professionals from across the world; operating the TDM Clearinghouse Help Desk; and developing and producing netconferences to provide live presentations with expert panels to people in locations around the country and allow playback on demand. In 2007, CUTR assumed national program management responsibilities for Best Workplaces for Commuters, a program previously administered by the U.S. EPA.

Representative projects include:
- Incorporating Transit into the Florida DOT DRI Review Process
  Florida DOT Public Transit Office
- Economics of Travel Demand Management
  Florida DOT Public Transit Office
- Smart Phone Application to Influence Travel Behavior
  Florida DOT Public Transit Office
- Travel Assistant Device (TAD) to Aid Transit Riders with Special Needs
  Florida DOT Public Transit Office
- Programs That Match Seniors with Volunteer Drivers
  Florida DOT Public Transit Office
- National Smart Transportation Archive Researcher (NSTAR) Program
  Florida DOT Public Transit Office
- Testing the Impact of Personalized Feedback on Household Travel Behavior
  Florida DOT Public Transit Office
- Florida Commuter Assistance Program Evaluation
  Florida DOT Public Transit Office
- National TDM and Telework Clearinghouse
  National Center for Transit Research
- Florida Commuter Choice Certificate Program
  Florida DOT Public Transit Office
- Florida TDM Clearinghouse
  Florida DOT Public Transit Office
- New North Transportation Alliance
  Florida DOT, City of Tampa, Hillsborough County

**PROGRAM TEAM**

Program Director:
Philip L. Winters

Researchers:
Julie Bond
Sara Hendricks
Nevine Labib Georggi
Sean Barbeau

Program Assistant:
Jennifer Iley

“CUTR has been a major contributor to the success of the TDM industry. As an example, CUTR and ACT have teamed up for the past five years in our ‘Learn More. Travel Less’ netconference series to get the latest information to TDM professionals in the field, many of whom are unable to travel to conferences. Surveys show the netconference series is one of the top three valued services among ACT members.”

Jon Martz
President, Association for Commuter Transportation

**BEST Workplaces for Commuters**
CUTR’s Transit Management and Innovation Program focuses on research and technical assistance to transit agencies, MPOs, and the Florida DOT, addressing technical and policy issues in transit management and planning, transit operations, and transit data. Researchers in the program all have past experience in a transit operations environment, resulting in applied research with solutions and innovations that are relevant to transit professionals in a transit operating environment. Technical assistance is provided to virtually every transit system in Florida as well as cities, counties, local and state agencies, and metropolitan planning organizations.

The program has seven focus areas: APTS technology development, procurement and evaluation; transit development planning; transit operations planning; transit performance analyses; transit professional networks (planning and marketing); public involvement; and applied research for transit operating environments. The Resource for Advanced Public Transportation Systems (RAPTS) has provided technical assistance to 12 Florida transit agencies to enhance operations, efficiency and customer support. As Florida’s urbanized areas expand and new urbanized areas are created with each decennial Census, CUTR has expanded its involvement in helping communities grapple with regionalism in the context of transit planning, facilities and infrastructure, and new transit services that extend beyond jurisdictional borders. Sample projects include:

- JTA Regional Transportation Summit
  *Jacksonville Transportation Authority*
- Polk RTA Organizational Structure Alternatives and Planning
  *Polk Regional Transit Authority*
- New Service Development Planning
  *Clay County*
- Santa Rosa County Transit Feasibility Study
  *Santa Rosa County*
- Assessment of Transit Needs
  *Flagler County*
- Guidebook for Start-up Transit Agencies
  *Florida DOT*
- Transportation for Planned Special Events
  *Florida DOT*
- Best Practices in Service Planning
  *Florida DOT*
- Transit Emergency Planning and Response Assessment
  *Florida DOT*
- Regional Fare Policy
  *Florida DOT*
- Effective Sizing and Strategies for Bus Operator Extraboard Management
  *Florida DOT*

“CUTR provides outstanding resources through its research and technical assistance programs that greatly enhance the development and performance of public transportation systems throughout the nation. We are fortunate to have CUTR located in Florida, such that our transit agencies benefit from direct access to practical research applications and support from CUTR’s expert staff.”

Wes Watson, Executive Director
Florida Public Transportation Assoc.

**PROGRAM TEAM**

**Program Director:** Rob Gregg

**Researchers:** Chris DeAnnuntis, Jay Goodwill, Ann Joslin, Bill Morris, Mark Mistretta

**Program Assistant:** Melissa DeLeon
Blending decades of transportation management experience with advanced quantitative and economic analysis capabilities, this program area serves a diverse set of transportation agencies and decision makers. With an emphasis on institutional innovation, the group assists transit agencies, toll authorities, local regulators, and statewide boards with policy development, operations enhancements, and econometric analysis as well as the exploration of new technologies, with emphasis on helping organizations move an idea through research and analysis to implementation. Sample projects include:

- Potential for Reserved Truck Lanes and Truck Ways in Florida
  Florida DOT

- Expansion of Alternative Fuel and Vehicle Use in Florida
  Florida Department of Community Affairs

- Analysis of Freight Movement Mode Choice Factors
  Florida DOT

- Feasibility of Open Road Tolling in Florida
  Florida’s Turnpike Enterprise

- Turnpike Enterprise Performance Measures
  Florida’s Turnpike Enterprise

- Interim Executive Director Services
  Tampa-Hillsborough County Expressway Authority

- Critical Security Needs of Florida’s Public General Aviation Airports
  Secure Airports for Florida’s Economy
  (SAFE) Council

- Development of a Large Bus/Small Bus Decision Support Tool
  Florida DOT

- Alternative Technologies for Florida’s Mass Transit Systems
  Florida DOT

- Reducing Insurance and Bonding Costs for Major Transit Projects
  Florida DOT

- Feasibility of Implementing Tech Centers in Miami-Dade County
  Miami-Dade MPO

- Florida Toll Agency Performance Measures
  Transportation & Expressway Membership of Florida (TEAMFL)

- Transit System Subsidy Policy Peer Review and Analysis
  Miami-Dade Transit

- Comprehensive Bus Operational Analysis
  Miami-Dade Transit

- Rail Transit Program Policy Formulation and Operations Review
  Miami-Dade County

- Economics of Travel Demand Management
  Florida DOT

- Annual Performance Report for Select Transit and Toll Agencies
  Florida Transportation Commission

- Integrating Transit and Urban Form
  Florida DOT

“Over the years CUTR has worked with Florida’s Turnpike on many initiatives. One of the most significant was the background studies and testing on the State’s electronic tolling technology called SunPass. Their work has always been objective, thorough and professional.”

James L. Ely
Executive Director
Florida’s Turnpike

PROGRAM TEAM

Program Director:
Stephen L. Reich

Researchers:
Janet L. Davis
Sisinnio Concas
Julia Cope
Anthony Ferraro
Alex Kolpakov

Program Assistants:
Rebecca Bosco
Melissa McCarville
CUTR’s Planning and Corridor Management Program emphasizes state-of-the-art strategies for transportation planning, corridor management, and growth management. Activities include research, training, and technical assistance for state, regional, and local agencies on transportation planning best practices, access management, corridor (right-of-way) preservation, MPO organizational considerations, MPO policy and processes, multimodal transportation systems, transportation concurrency, cooperative agreements, public involvement, and related topics. Sample projects include:

- Access Management Manual
  TRB/National Academies

- Access Management Corridor Studies in Support of Florida’s SIS
  Florida DOT

- Corridor Management Practices on Selected Critical SIS Facilities
  Florida DOT

- Assessing the Practice of Public Involvement in Florida
  Florida DOT

- Alternative Funding Strategies for Improving Transportation Facilities
  North Carolina DOT

- Assessment of Florida’s Regional Transportation Planning Process
  Florida Transportation Commission

- Arizona DOT Statewide Access Management Plan
  URS/parametrix/ADOT

- Corridor Preservation Best Practices For Local Governments
  TBE/Hillsborough County Corridor Plan

- Documenting Improved Mobility Techniques on SIS and TRIP Facilities
  Florida DOT

- Evaluation and Monitoring of 2005 Growth Management Legislation
  Florida Transportation Commission

- Land Development/Access Management Strategies for Florida Interchanges
  Florida DOT

- MPOAC Institute
  Florida MPO Advisory Council

- MPOAC Transportation Planning Services
  Florida MPO Advisory Council

- Managing Corridor Development Handbook
  Florida Legislature

- Model Ordinance for Proportionate Fair-Share Mitigation of Development Impacts
  Florida DOT

- Model Regulations/Plan Amendments for MMTDS
  Florida DOT

- NCHRP Syntheses: Cooperative Agreements for Corridor Management; Driveway Regulation Practices; Corridor Management; Land Development Regulations that Promote Access Management
  TRB/National Academies
“CUTR is recognized throughout the mass transit industry with earned respect in its timely development of training courses that meet the needs of transit safety and security professionals. TSI has been proud to partner with CUTR in several joint USDOT/FTA projects that greatly enhance state-of-the-art training, not only in Florida but in the U.S.”

Michael E. Nolan, Manager
Transit Safety & Security Division
Transportation Safety Institute

CUTR’s Transit Technical Assistance and Training Program provides technical assistance and training opportunities to transit agencies, managers, and operators through a variety of workshops, conferences, programs and projects. Technical assistance, training and research emphasis areas include transit maintenance, transit procurement, bus system safety and security, substance abuse management, the FPTA/FTA/CUTR Professional Development Workshop and the GIS Conference, senior and rural mobility initiatives, training video production, online training applications, and distance learning. Sample projects include:

- Florida Maintenance Training and Technical Assistance Program
  Florida DOT
- Florida Vehicle Procurement Program
  Florida DOT
- Florida Transit Operator Trainer Training Program
  Florida DOT
- Florida Transit Technical Assistance and Training Program
  Florida DOT
- Bus System Safety Oversight and Technical Assistance
  Florida DOT
- Repair Time Standards for Transit Vehicles
  Florida DOT
- Rural Transit Assistance Program
  Florida DOT
- Toolbox for Transit Event Investigation
  NCTR
- Toolbox for Promoting Bus Safety and Security in Your State
  NCHRP
- Substance Abuse Management Oversight and Technical Assistance Program
  Florida DOT
- Identification of Cost Effective Methods to Improve Security
  FTA/UCITSS
- Web-Based Bus Accident Reporting
  NCTR

PROGRAM TEAM

Program Director:
Lisa Staes

Researchers:
Edward Bart
Diana Byrnes
Hank Cusack
Amber Reep
Deborah Sapper
Cindy Wooten

Training Specialists:
Vicki Zambito
Yolanda Moore
Molly Buffington

Line Inspectors:
Carlton Allen
Cecil Carter
Leroy Edwards
Researchers in the areas of ITS, traffic operations and safety work diligently with sponsoring agencies and collaborate closely with other research partners on innovative projects to develop and apply new concepts and technologies to solve real-world transportation problems. ITS specialties include applying ITS technologies to existing transportation systems, comprehensive evaluation of ITS deployments, advanced traffic management systems, advanced traveler information systems, system traffic modeling, and weather management systems. Traffic operations focuses on advanced traffic signal technologies, traffic control and operations, freeway management and operations, traffic simulation, congestion management, and traffic impact studies. Safety focuses on highway and pedestrian safety, transit safety, incident management, interstate route diversion, crash avoidance systems, safety program evaluation, and safe routes to schools. Sample projects include:

- Impact of Communication/Detection Degradation on ATMS Operations
  Florida DOT/FHWA

- Evaluation of Power Line Motor Carrier Rear Vision System
  Florida DOT/FHWA

- MOT Training Program for Incident Responders in Florida
  Florida DOT, FHWA, Florida Atlantic University

- Evaluation of Safe Route to School Program
  Florida DOT District 7

- Model Spreadsheet Tracking System for Transportation Concurrency Management
  Florida DOT

- Tracking Jurisdictional Development Impacts and De Minimis Trips
  Sarasota County Public Works

- Transportation Concurrency and Impact Assessment Study
  Florida Department of Community Affairs

- Real-Time Video Data Collection Using Small Unmanned Helicopters
  Hillsborough County Traffic Services

- US 19 Pedestrian Safety Study
  Florida DOT District 7

- Traffic Signs Research Study for Miami-Dade County
  Miami-Dade MPO

- Development of Transit Signal Priority Control Strategies and Modeling Tools
  Florida DOT/FHWA

- A Toolbox for Reducing Queues at Freeway Off-Ramps
  Florida DOT

- Best Practices for Incident Management in Florida
  Florida DOT

“The ITS team at CUTR has emerged as a significant contributor to the field of ITS through its prolific faculty and innovative research projects. The team has been and remains a valuable resource for transportation professionals.”

Scott F. Belcher, CEO
ITS America

**PROGRAM TEAM**

Program Director: Pei-Sung Lin

Researchers: Huaguo Zhou
Chanyoung Lee
Sachin Rai

Program Assistant: Jing Liu
Effects of Transportation Costs on Prices

- Suppose origin of product is at O.
- If market place is C, price = OC + BF
  - BF = Transportation cost
- If Market is at E, price = OC + BA
  - BA = Transportation cost
Contributing to the education of future transportation professionals remains a primary goal of CUTR. By working closely with student assistants on research projects, teaching transportation and related courses, supporting student organizations and activities, serving as theses advisers, assisting students with job placement, and administering certificate programs for Interdisciplinary Transportation and Transportation Systems Analysis, 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 in training Florida’s brightest students for successful careers in transportation for the benefit of the citizens of Florida and the nation.

Each year, positions as research assistants are awarded to 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 CUTR faculty, attending and making presentations at local, state, and national conferences and meetings, and maintaining involvement in professional organizations and societies. Students gain hands-on work experience with projects, are exposed to a variety of transportation projects, and develop a network of peer professionals.

**USF INTERDISCIPLINARY TRANSPORTATION CERTIFICATE**

The transportation problems that urban areas are facing today require interdisciplinary approaches. The University of South Florida has responded to this need by creating a transportation certificate program that brings together graduate students in Civil Engineering, Economics, and Public Administration. 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.

The program is offered as a six-course certificate program, in addition to being available to students working toward master’s degrees. 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.

**USF GRADUATE TRANSPORTATION SYSTEMS ANALYSIS CERTIFICATE**

In 2005, CUTR led an initiative to establish a Transportation Systems Analysis Certificate. This certificate is designed to educate and provide a credential for those persons interested in transportation systems analysis. Four courses are required, and students can select among 11 available courses, all of which can be completed via distance learning.

**SOUTHEASTERN TRANSPORTATION CENTER**

CUTR is a member of the Southeastern Transportation Center (STC), a consortium of 10 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. Participation includes partial financial support for students and for student travel to professional conferences and meetings.
GEORGIA BROSCH MEMORIAL TRANSPORTATION SCHOLARSHIP

Training Florida’s brightest students for careers in transportation is vital to enhancing the quality of life for our state and the nation. To assist in that training and to help attract the best and brightest to careers in transportation, CUTR established the Georgia Brosch Memorial Transportation Scholarship. Applications for the scholarship are solicited and awards made in the fall of each year; the first scholarships were awarded in 2000.

USF STUDENT CHAPTER ITE

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.

CUTR Student Assistants:

Martin Akerman, Business Administration
Manisha Amdiyala, Computer Science & Engineering
Hongyung Chen, Civil Engineering
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Achilleas Kourtellis, Civil Engineering
Melissa McCarville, Civil Engineering
Susrutha Modepalli, Electrical Engineering
Melissa Mugharbel, Economics
Narin Persad-Maharaj, Computer Science
Anurag Rathore, Civil Engineering
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**PHILIP L. WINTERS**, Director, Transportation Demand Management Program. BS, Civil Engineering, Virginia Polytechnic Institute and State University. Specialties: transportation demand management, travel behavior change, program planning and evaluation, parking management, training and technical assistance. Professional Activities: Member Emeritus, TDM Committee, TRB; Bob Owens TDM Champion Award, ACT; Information Director, TDM Institute, ACT; Vice Chair, Transportation Planning Council, ITE; Executive Committee, Transportation Planning Council, ITE.

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TECHNOLOGY TRANSFER

In our continuing efforts to serve as an important transportation resource for Florida, CUTR conducts a variety of activities aimed at providing useful transportation information to the public and private sectors throughout the state. Activities include:

- publishing newsletters and publications
- publishing hardcopy and on-line project reports
- developing and producing training courses and conferences
- developing and producing netcasts
- maintaining websites
- hosting listservs
- making presentations at local, state, national, and international meetings and conferences
- publishing papers

NEWLETTERS/PUBLICATIONS

To provide the most up-to-date information in a variety of topic areas, CUTR produces several newsletters and publications throughout the year:

- Journal of Public Transportation
- CUTRlines
- RTAP Newsletter
- BRT Quarterly
- Transit Training
- FLOW

SELECTED RECENT CUTR REPORTS

- Arizona DOT Statewide Access Management Plan
- Alternative Fuel Options for Florida’s Mass Transit Systems
- Applicability of Bogota’s BRT System to the U.S.
- Assessing the Practice of Public Involvement in Florida
- Developer Contributions for Transportation Facilities
- Development of Alternative Measures of Transit Mode Share
- Development of Effective Strategies to Alleviate Traffic Congestion
- Development of Large/Small Bus Decision Support Tool
- Economics of TDM: Comparative Cost Effectiveness/Public Investment
- Enhancing Transportation Safety & Security via Wi-Via
- Field Engineering, Systems Maintenance & Structural Inspection
- Finding Ways to Reduce Insurance/Bonding Costs for Major Transit Projects
- Fixed-Route Fleet Composition Analysis & Recommendations
- Florida Transit Handbook
- Guidebook for Start-Up Transit Agencies
- Identification of Cost-Effective Methods to Improve Security at Transit Stations
- Incorporating Transit & Other Multimodal Strategies into Florida DOT DRI Process
- MDT Metrobus Maintenance Review/Recommendations
- Pedestrian Safety at Midblock Locations
- Provision of Park & Ride Facilities for BRT Systems
- Review of Broward County MPO Staffing Arrangement
- Roadway Lighting Analysis: Development of Lighting Measurement Strategies
- Safety Research: Pinellas County US19 Pedestrian Crash Review
- San Pablo Rapid BRT Project Evaluation
- Special Event Transportation Planning & Operations Strategies for Transit
- Strategies for Implementing Access Roads: Pine Island
- Checklist for Incorporating TDM into the Land Development Review Process
- Traffic Sign Research Study for Miami-Dade County
- Transit Use Opportunities/Issues for Older Drivers Losing Driving Privileges
- Transportation Concurrency: Best Practices Guide
- Using Local Transit On-Board Surveys for State-Level Measurement
- Validating T-BEST Models with 100% APC Counts

**SELECTED RECENT NATIONAL ARTICLES/PAPERS**

- A Framework of Modeling/Forecasting Stop-Level Transit Patronage (Chu/Polzin et al.)
- A General Architecture in Support of Interactive, Multimedia, Location-Based Mobile Applications (Barbeau/Winters/Georggi)
- Achieving Majority Support for Urban Road Pricing (Cain)
- Active & Former Drivers: Critical Link in Understanding Future Travel Demand (Polzin/Page)
- An Overview of BRT in the U.S. (Cain/Darido/Thole/Flynn)
- An Unconventional Design for Bus U-Turns at Signalized Intersections (Zhou/Hagen/Singh/Lin)
- The Applicability of Bogota’s Transmilenio BRT System to the U.S. (Cain/Darido)
- Assessing Intrastate Equity of Transportation Funding (Polzin/Chu)
- Automatic Transformation of Video Image Data from UAV’s (Lin et al.)
- Benefit and Cost Analysis of Road Ranger Program in Florida (Zhou)
- Benefit/Cost Analysis of Freeway Service Patrols in Florida (Zhou/Lin)
- Case Study of Safety Impacts of Congestion on Urban Freeways (Rai/Lin)
- Communicating the Impact of TDM Programs to Traffic Operations Community (Rai/Winters/Georggi/Zhou)
- Considering Usage/Safety Effects for Uncontrolled Midblock Crosswalks (Chu/Kourtellis et al.)
- CORSIM-based Simulation Approach to Evaluate Route Diversion Plans (Zhou/Lin)
- Crossing Locations, Light Conditions, Pedestrian Injury Severity (Chu et al.)
- Developing Bus Transfer Centers as Community Assets (Volinski)
- Development of an Adaptive Rear-End Crash Avoidance Model (Lin/Rai/Hagen)
- Drive 4 Life: An Innovative Safety Program (Hsu/Zhou/Lin/Hagen/Singh)
- Effective Teleworking to Reduce Traffic Demand and Energy Consumption (Lin/Zhou/Hagen/Winters)
- Empirical Delay Models for Multi-Lane Two-Way Stop-Controlled Intersections (Zhou)
- Extreme Makeover: Transportation Funding and Desperate Transportation Planners (Polzin)
- Impact of Carpooling on Trip-Chaining Behavior/Emission Reductions (Concas/Winters)
- Incident Management Strategies to Alleviate Traffic Congestion in the U.S. (Lin/Zhou/Hagen)
- Integrating Access Management into Local Transportation Planning (Williams/Seggerman/Kramer)
- Integration of Traffic Signal Systems across Multiple Jurisdictions (Lin)
- Models for Independence: Organizational Structures of Independent MPOs in Florida (Kramer/Hopes)
- Public Involvement Practices and Perspectives of Florida’s MPOs (Kramer/Hopes/Williams)
- Ridership Accuracy and Transit Formula Grants (Chu)
- Shall We Dance? Achieving Corridor Management through International Cooperation/Coordination (Seggerman)
- Study on the Relationship between Night-Time Crashes and Street Lighting (Zhou/Hsu)
- Successful Employer-Based TDM Programs/Role of ETC (Hendricks)
- Sustainable Highway Management (Williams/Hassan)
- Teenage Mobility in the U.S.: Issues and Opportunities for Promoting Transit (Cain)
- Theoretical/Empirical Analyses of Transit's Usual/Actual Mode Shares (Chu/Polzin)
- Transportation Concurrency, Intergovernmental Review, Impact Fees (Seggerman)
- What’s New in Transportation & Growth Management? (Mierzejewski/Seggerman)

SELECTED TRAINING COURSES

Training transportation professionals is a primary activity of CUTR. For more information on course offerings, visit www.cutr.usf.edu.

- 2007 NTD Data Collection & Reporting Training Seminar
- Access Management
- Advanced Technical Training for Transit Mechanics
- Bicycle/Pedestrian Issues
- Car Sharing Programs
- Commuter Choice Support Programs & Smart Commute Strategies
- Commuter Choice Tax Benefits
- Conflict Resolution
- Creating a Transit Safety Culture
- Creative Thinking for Transportation Professionals
- Effectively Managing Transit Emergencies
- Establishing TDM Program Goals & Objectives
- Florida Maintenance Training Program
- Instructor’s Course in Bus Operator Training
- Instructor’s Course in Paratransit Training
- Integrated Strategic Planning
- Introduction to Advanced Traveler Info Systems and 511
- Introduction to Bus Rapid Transit
- Introduction to Transit Operations Planning
- ITS and Traffic Management
- Managed Lanes Strategies
- Measuring TDM Results & Performance
- MPOAC Institute Workshop for Elected Officials
- MPOAC Weekend Institute
- Non-Emergency Stretcher Transfer Training
- Parking Management
- Primer on Value Pricing
- Public Speaking
- Rideshare Options
- Substance Abuse Management/Program Compliance
- Telework and Compressed Work Week
- Transit Service Options
- Transit Terrorist Tools & Tactics
- TSI Fatigue Awareness
- TSI Supervisor’s Certification Course
SELECTED RECENT NETCASTS

Often in cooperation with national professional organizations, CUTR develops and produces a variety of netcasts throughout the year.

- Climate Change: Tipping Point for TDM or Tipping at Windmills
- Florida Lunch and Learn: Emergency Ride Home in Practice
- Florida Lunch and Learn: Carsharing in Practice
- Safe Routes to School: Why They Matter to Kids, Communities, and TDM Professionals
- A Look at Employer TDM Programs in the Midwest
- Do You Get What You Incent? A Virtual Discussion

CUTR WEBSITES

Numerous websites are developed, hosted, and maintained for general transportation information and as part of ongoing projects and professional organizations.

- CUTR – www.cutr.usf.edu
- National Center for Transit Research – www.nctr.usf.edu
- National BRT Institute – www.nbri.org
- Florida Commuter Services – www.commuterservices.com
- Florida Vehicle Procurement Program – www.cutr.usf.edu/fvpp
- Florida Maintenance Training Program – www.cutr.usf.edu/fmtp
- Florida Transit Marketing Network – www.fl-exchange.com
- Florida Transit Planning Network – www.ftpn.cutr.usf.edu
- Florida SAFE Council – www.safecouncil.org
- Florida Transportation Indicators – www.floridatransportationindicators.org
- Best Work Places for Commuters – www.bestworkplaces.org
- New North Transportation Alliance – www.newnorthalliance.org
- Resource for Advanced Public Transportation Systems (RAPTS) – www.rapts.cutr.usf.edu
- Rural Transportation Assistance Program (RTAP) – www.rtap.cutr.usf.edu
- Substance Abuse Management – www.cutr.usf.edu/byrnessamsite
- TampaBayCycle – www.tampabaycycle.com
- TBEST – www.tbест.org

CUTR LISTSERVS

CUTR operates and maintains a wide variety of listservs. For information on how to join these listservs, visit http://lists/cutr.usf.edu/read/all_forums.

- brt – Bus Rapid Transit
- fvpp – Florida Vehicle Procurement Program
- fon – Florida Operations Network
- ft-forum – Florida Transit Planning Network
- fmn – Florida Transit Marketing Network
- jpt – Journal of Public Transportation
- leadershipapta – Leadership APTA
CUTR TRANSPORTATION ACHIEVEMENT AWARD

In 2003, CUTR inaugurated the CUTR Transportation Achievement Award to recognize outstanding leadership in transportation in Florida and the U.S. Each year, a deserving recipient is selected and honored at the CUTR Transportation Achievement Award Dinner, held in the fall. The dinner is attended by more than 300 transportation professionals, legislators, and others affiliated with the Florida transportation industry. The Secretary of the Florida Department of Transportation serves as the keynote speaker.

Past recipients of the award include:

**2003**
Don Crane, former President
Floridians for Better Transportation

**2004**
David Brown, former Chairman
Florida Transportation Commission

**2005**
Honorable John Mica
U.S. House of Representatives

**2006**
K. Earl Durden, former Chairman
Florida Transportation Commission

**2007**
James L. Ely, Executive Director
Florida’s Turnpike Enterprise

**2008**
Bob Burleson, President
Florida Transportation Builders’ Association, Inc.