2003 CUTR Annual Report

CUTR

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Transportation is a key element of our society and our quality of life, and through CUTR's efforts in research, education, and training, I believe we truly are making a difference as we work to address important issues. Those efforts include applying intelligent transportation systems to improve the efficiency of all modes, finding ways to manage demand to better utilize our scarce resources, defining state-of-the-art practices in public transportation management and operations, working to preserve corridors to meet the transportation needs of future generations, providing training related to all aspects of transportation, developing organizational and management solutions, and addressing the needs of our most vulnerable populations. I am incredibly fortunate to be able to serve as the director of a group of professionals, support staff, and students whose primary motivation is "making a difference."

In the relatively short span of 15 years, CUTR has made a major impact on solutions to state and national transportation problems. We research and make recommendations related to transportation issues across modes. We present the results of that research in forums across the country. We participate in the education and practical training of the next generation of transportation professionals. We hold leadership positions in state and national organizations. In short, we are helping to set the agenda for future research directions.

None of this could be done without the strong partnerships we have formed with the Florida Department of Transportation, the U.S. Department of Transportation, transportation agencies, cities, counties, and metropolitan planning organizations. We relish the opportunities we have to work side by side with our partners to address the transportation challenges we face.

I hope you will take a moment to look through this publication to learn more about CUTR's research program and activities. We strive to improve the quality of life for all our citizens, and I hope you will agree that we are "making a difference."

Edward A. Mierzejewski, PhD., PE, Director
Established in the USF College of Engineering in 1988 by the Florida Legislature and the Florida Board of Regents, CUTR has become 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 employees dedicated to conducting research. The multidisciplinary research staff includes experts in engineering, economics, planning, public policy, and finance who develop comprehensive solutions for all modes of transportation while combining academic and “real world” experience.

CUTR conducts nearly $7 million in research annually for a variety of public and private sector sponsors in Florida and the United States, including federal, state and local governments, agencies, and organizations. Areas of research include public transportation, transportation planning, mobility policy, intelligent transportation systems (ITS), transportation demand management (TDM), transportation economics and finance, corridor planning, and ethnography and transportation systems, among others.

**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.
NATIONAL CENTER FOR TRANSIT RESEARCH (NCTR)

NCTR was created at CUTR following Congressional designations in 1991 and 1998 to help accomplish national goals in the areas of public transportation research, education, and technology transfer. 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 for this program is provided by the U.S. Department of Transportation and the Florida Department of Transportation.

RESEARCH

NCTR’s multi-year work program includes activities designed to provide decisionmakers and transportation professionals with the knowledge and information necessary to help provide quality public transportation services and facilities. Sample projects include:

- Florida Transportation Almanac
- Evaluation of First-Year Florida MPO Transit Capacity and Quality of Service Reports
- Ridership Models at the Stop Level
- Why People Cross Where They Do
- Expanding Commuter Choice Tax Benefit Options
- Best Practices in Voluntary Driving Cessation Programs for Seniors
- FDOT Statewide GIS for Transit Technical Assistance Program
- National Transit Database Automated Data Collection Procedures
- Assessment of Transit Information Materials and Development of Selection Criteria for Prototype Design Elements
- Worksite Trip Reduction Model and Manual
- Lessons Learned in Transit Efficiency—Part II
- Analysis of National Transit Database
- FSUTMS Mode Choice Modeling—Factors Affecting Transit Use and Access
- Qualitative Methods for Transit Research
- Customer Surveying for Public Transit: A Design Manual
- Synthesis of Transit Non-User Surveys
- An Investigation of the Structure/Performance Relationships of Public Transit Agencies
- Analysis of the FDOT Transit Corridor Program
- Inventory and Analysis of Advanced Public Transportation Systems in Florida
- Analysis of Florida Transit Bus Accidents
- Enhancement of the Public Transportation Promotional Materials Clearinghouse
- Evaluation of the Economic Viability of Narrow-Gauge Local Rail Systems
- Transit Customer Satisfaction Index
- Assessment of Operational Barriers and Impediments to Transit Use
- Cops, Cameras, and Enclosures: A Synthesis of the Effectiveness of Methods to Provide Enhanced Security for Bus Operators
- State Park-n-Ride Lot Program Manual Update
- Pedestrian Mid-Block Crossing Difficulty
- Neighborhood Intermodal Transfer Facilities
- Where Are Tomorrow’s Maintenance Technicians Coming From?
- Telecommunication and Its Future Role in the Public Transportation Arena
- Effectiveness of Bus Signal Priority
- Environmental Justice and Community Impact Assessment for Transit Agencies
- Land Developer Participation in Providing for Bus Transit Facilities/Operations
- Synthesis of Securement Device Options and Strategies/Accident Tracking
- Public Transit Investment Decisions: Per Capita Decisions, Trends and Impacts
- National Transit Bus Accident Data
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 a graduate transportation degree at USF. 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 through discussions with practicing professionals, hands-on activities, and field trips. A multi-media educational toolkit is being developed that can be used by students of all ages to encourage interest in 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. These technology transfer activities include:

- the NCTR web site, www.nctr.usf.edu
- a variety of listservs on Bus Rapid Transit, teleworking, and transportation demand management, accessible through the web site
- netmeetings, netconferences, and netcasts, many of which are available on the NCTR web site
- an eNewsletter
- 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 2000
- final research reports, all available on the NCTR web site
CUTR’s transit program addresses technical and policy issues in transit management and planning, transit operations, and transit data and modeling related to bus, bus rapid transit, school bus transportation, high speed rail, light rail, and others. Researchers in the program provide technical support and planning research for transit systems, state departments of transportation, local governments, school boards, and metropolitan planning organizations in program monitoring and evaluation, bus rapid transit, system performance, transit development plans, operations planning, customer satisfaction, student and transit system safety issues, long-range transportation plans, and advanced public transportation systems. Technical assistance is provided to virtually every transit system in Florida as well as cities, counties, local and state agencies, and metropolitan planning organizations. Sample projects include:

- Best Practices in Transit Service Planning
  Miami-Dade County
- Transit Metrobus Maintenance Program
  Miami-Dade County
- CSXT/CANAC Capacity Analysis Study
  LYNX/Orlando
- JTA Planning and Technical Assistance
  Jacksonville Transit Authority
- SCAT On-Board Survey and Ridecheck
  Sarasota County Area Transit
- Strategies to Increase Coordination of
  TD Transportation Services
  Multisystems, Inc.
- Transit Corridor Issues
  Central Florida Technology Transit Corridor
- Traffic Engineering Services for Aventura Transit
  Craven Thompson
- Transit Planning and Management Services
  LYNX/Orlando
- Transit Development Plans
  Lee County, Highlands County, Volusia County,
  Collier County, Ft. Walton Beach, Panama City,
  Pensacola, PalmTran, Key West, Charlotte County,
  Winter Haven, Sarasota County
- FDOT District 4 APTS Master Plan
  Florida DOT
- FDOT Fact Book
  Florida DOT
- Florida Transportation Indicators Report
  Florida DOT
- Development of ITSUP 2.0
  Florida DOT
- Florida Transit Handbook and NTD Assistance
  Florida DOT
- Pilot Project for Broward County/Palm Beach
  County APTS Master Plan
  Florida DOT
- Resource Advanced Public Transportation
  Systems Program
  Florida DOT
- Trends and Conditions Research Support
  Florida DOT

**Program Team**

**Program Directors:**
- Rob Gregg
- Dennis Hinebaugh
- Joel Volinski

**Research Associates:**
- Michael Baltes
- Holly Carapella
- Fabian Cevallos
- Xuehao Chu
- Chris DeAnnunzio
- Chandra Foreman
- Jay Goodwill
- Nilgün Kamp

**Program Assistant:**
- Melissa DeLeon
With increasing traffic congestion and longer travel times, the Federal Transit Administration is placing emphasis on alternative modes of transportation, including Bus Rapid Transit systems. The National BRT Institute 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.

A collaborative effort between CUTR and the Institute of Transportation Studies at UC-Berkeley, the Institute provides resources to professionals interested in BRT, including conducting and participating in workshops and conferences, developing publications, conducting research, providing staff expertise, maintaining a web site, and producing the BRT Quarterly newsletter. Sample projects include:

- Planning studies for Chicago Transit, Riverside Transit, Los Angeles County Metro Authority, Hillsborough County Metropolitan Planning Organization
- Performance evaluations of the LYNX Lymmo project in Orlando and the South Miami-Dade Busway
- Design and technology options evaluations for advanced bus stops
- Development of BRT assessment and planning tools
- Applied research on technology developments for transit buses related to precision docking, electronic guidance, and adaptive signal priority techniques
- Technical advisory committee participation for AC Transit and a proposed BRT system in Detroit
- Technical assistance to Hennepin County (Minneapolis), Minnesota
- Updating and maintaining the TCRP A-23 Committee Bus Rapid Transit Video and Image Library
- Development and implementation of a BRT peer-to-peer program

Program Team
Director, USF: Dennis Hinebaugh
Director, UC-Berkeley: Wei-Bin Zhang
Research Associates:
  Michael Baltes
  Cheryl Thole
**TRANSIT TECHNICAL ASSISTANCE AND TRAINING**

To aid Florida’s public transit agencies in keeping abreast of the latest information in security, technology, and management techniques, CUTR’s Transit Technical Assistance and Training program provides technical assistance and training opportunities to transit agencies, managers, and operators through a variety of programs and projects. Projects conducted by CUTR researchers 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 Technical Assistance and Review of Substance Abuse Management Program
  *Florida DOT*

- Repair Time Standards for Transit Vehicles
  *Florida DOT*

- Rural Transit Assistance Program
  *Florida DOT*

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**Program Team**

Program Director: Lisa Staes  
Research Associates: Technology Coordinator:  
  Ed Bart  
  Keith Thomas  
  Amber Reep  
  Program Assistant:  
  Cindy Wooten  
  Molly Buffington

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**ETHNOGRAPHY AND TRANSPORTATION SYSTEMS (ETS)**

The ETS Program explores transportation behavior, issues, and needs of subgroups of the population. Research projects have examined the mobility needs of different population segments and include traditional research practices such as data collection and analysis, surveys, focus groups, and interviews; symposia and workshops; training on public participation; and service delivery evaluation. These practices have been combined to assess the impacts and risks associated with transportation and other federally-assisted actions. Sample projects include:

- Measuring the Effectiveness of Community Impact Assessment
  *Florida DOT*

- Data Analysis of 2000 Census for Metropolitan Tampa
  *USF Institute on Black Life*

- Strategies to Increase Coordination of Transportation Services for the Transportation Disadvantaged
  *Multisystems, Inc.*

- Community Transportation Project Evaluation
  *Metropolitan Area Planning Council*

- **Community Impact Assessment Handbook**
  *Environmental Management Office*

- Environmental Justice and Community Impact Assessment for Transit Agencies
  *U.S. DOT*

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**Program Team**

Program Director: Beverly Ward

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To meet the challenges facing our transportation system, management and operations efforts require the judicious use of diverse means to increase mobility and access, improve quality of life, enhance economic development opportunities, reduce traffic congestion, and improve air quality. CUTR’s TDM research and training efforts are aimed at making already-successful solutions even better, fostering the evolution of existing polices, programs and services and developing innovative solutions. Many tactics involve demand management strategies, such as encouraging the use of alternatives to the single-occupant vehicle, fostering the adoption of work-life programs such as compressed work-weeks, flextime, and telecommuting, and applying parking management tactics such as preferential treatment for carpools and parking pricing.

TDM programs work with employers and public agencies who influence the travel behavior of employees through work hour policies, provision and pricing of parking, shuttles, commuter benefits, ridematching services, high-occupancy vehicle lanes, vanpool formation assistance, or establishing parking requirements. Sample projects include:

- Strategies for Increasing the Effectiveness of Commuter Benefits Programs
  *ICF Consulting for TCRP*
- Florida Commuter Choice Certificate Program
  *Florida DOT Public Transit Office*
- Florida TDM Clearinghouse
  *Florida DOT Public Transit Office*
- University North Transportation Initiative
  *Florida DOT, City of Tampa, Hillsborough County*

**Florida Commuter Choice Certificate Program**

[Image: Florida Commuter Choice Certificate Program]

*Center for Urban Transportation Research, University of South Florida*

*Tampa, Florida*

**Program Team**

Program Director: Phil Winters
Research Associates:
  - Nevine Labib Georggi
  - Chris Hagelin
  - Sara Hendricks
  - Jennifer Perone
  - Heather Sobush
  - Francis Wambalaba

Atlanta TMA/TMI Development Study
  *ESTC*

Commuter Assistance Programs’ Customer Satisfaction Study
  *Florida DOT Public Transit Office*

Hillsborough County TDM Plan
  *Bay Area Commuter Services*

Commuter Assistance Program Evaluation Manual
  *Florida DOT Public Transit Office*

Evaluation of the Commuters’ Register
  *Connecticut DOT*

Market-Based Approach to Trip Reduction Programs
  *Florida DOT Research Center*

Neural Network Technology Application for the Evaluation of Trip Reduction Programs
  *Florida DOT Research Center*

Reducing Vehicle Trips and Vehicle Miles of Travel Through Customized Travel Options
  *Florida DOT Research Center*

Testing Public Acceptance of HOT Lanes
  *Florida DOT Research Center*

Vanpool Financing and Pricing Guide
  *Florida DOT Research Center*

Bicycle Parking Plan for Miami-Dade Transit
  *Miami-Dade MPO*

Atlanta TDM Framework Research/Measurement Program Technical Support
  *Southern Coalition for Advanced Transportation*

Commuter Benefits Program Training and Development
  *ICF Consulting for the National Transit Institute*
TRANSPORTATION PROGRAM EVALUATION AND ECONOMIC ANALYSIS

Blending decades of transportation management experience with advanced quantitative, geographic, and economic analysis capabilities, this program area serves a diverse set of transportation agencies and decisionmakers. 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 conducted by CUTR researchers include:

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

The 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 and Development of a Benefit-Cost Return on Investment on Equations, Guidelines and Variables
*Florida DOT*

Determination of Limousine Sedan Utilization in Hillsborough County
*Hillsborough County Public Transportation Commission*

Analysis of Taxicab Rates in Hillsborough County
*Hillsborough County Public Transportation Commission*

Analysis of Freight Movement Mode Choice Factors
*Florida DOT*

Strategic Fit of Alternative Fuels to Florida
*Florida Department of Community Affairs*

Economic Impact Analysis of Mid-Bay Bridge Widening
*MidBay Bridge Authority*

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

Freight Transportation and Goods Movement in Florida
*Florida DOT*

MetroRail/MetroMover Fleet Management Plans
*Miami Dade Transit*

MetroBus Maintenance and Fleet Practices
*Miami Dade Transit*

Turnpike Enterprise Performance Measures
*Florida’s Turnpike Enterprise*

Turnpike Enterprise Reorganization
*Florida’s Turnpike Enterprise*

Program Team

Program Director: Steve Reich
Research Associates:
Sisinnio Concas
Jan Davis
Anthony Ferraro
Program Assistant: Holly Alderman
Researchers in this area participate in innovative projects in which new concepts and technologies are being applied to solve real-world problems. Specialties include the evaluation, cost-effectiveness, and implementation feasibility of applying ITS technologies to existing transportation systems, advanced traveler information systems, advanced crash avoidance systems, automatic vehicle location, automated traffic data collection, electronic toll and traffic management systems, regionalized comprehensive transportation management plans, and weather monitoring systems. Sample projects include:

- Guidebook for ITS Integration  
  *Florida DOT*
- APTS Needs Assessment for SCAT  
  *Sarasota County Area Transit*
- Evaluation of Shared Video Integration in Volusia County  
  *Volusia County*
- Development of a Regional ITS Working Group  
  *Florida DOT*
- Assistance with Express Lane Framing  
  *Florida DOT*
- ETTM Field Performance Evaluation  
  *Florida DOT*
- Lee County Expansion of Variable Pricing to Heavy Vehicles  
  *Lee County*
- Palm Beach County Interim Traffic Management System  
  *Palm Beach County*
- Incident Management Team and Resource Development  
  *Florida DOT*
- ITS Investment Cost-Benefit Analysis  
  *Florida DOT*
- Best Practices for Incident Management in Florida  
  *Florida DOT*
- Golf Cart Safety Training  
  *University of South Florida*
- Observational Motorcycle Helmet Use Survey and Examination of the Impacts of Law Repeal  
  *Florida DOT*
- Arizona DOT Security Whitepaper  
  *Cambridge Systematics*
- Investigation of Bicycle and Pedestrian Crash Exposure in Florida  
  *Florida DOT*

**Program Team**

Program Director: Larry Hagen  
Research Associates:  
  - Shireen Chada  
  - Firoz Kabir  
  - Patricia Turner  
Program Assistant: Patricia Baptiste
CUTR’s planning and corridor management program emphasizes state-of-the-art strategies for managing corridor development, as well as best practices in transportation planning and growth management. Activities include research, training, and technical assistance for state, regional, and local agencies on access management, right-of-way preservation, multimodal transportation, transportation planning best practices, organizational considerations, community impact assessment, and related topics. Researchers specialize in land development and access management practices, corridor management planning, MPO needs and planning practices, community impact assessment, right-of-way preservation strategies, interchange area access management, medians and roadway design issues, multimodal transportation/land use practices, intergovernmental coordination, and development of corridor management policies, programs, and procedures. Sample projects include:

- **National Access Management Manual**  
  *TRB/National Academies*

- **NCHRP Syntheses: Agreements Between Governmental Entities to Manage Arterial Corridors to Preserve Mobility and Safety; Driveway Regulation Practices; Corridor Management**  
  *TRB/National Academies*

- **A Guide for Including Access Management in Transportation Plans**  
  *Dye Management/Transportation Research Board*

- **Access Management Corridor Studies in Support of Florida Intrastate Highway System**  
  *Florida DOT*

- **Texas DOT Access Management Program**  
  *Kimley Horn/Texas DOT*

- **Tallahassee-Leon Co. Corridor Management Program Blueprint 2000 Intergovernmental Agency**

- **Access Management Technical Assistance**  
  *Metroplan Arkansas, HNTB/KIPDA*

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

- **Transportation Corridor Study**  
  *TBE Group, Inc./Hillsborough County*

- **MPOAC Transportation Planning Services**  
  *METROPLAN ORLANDO/Florida MPOAC*

- **MPO Long Range Transportation Plan Review**  
  *Florida DOT*

- **Organizational Review of the Capital Area MPO**  
  *Capital Area MPO, Raleigh, NC*

- **US 19 Access Management Plan**  
  *Levy County/Florida DOT*

- **Assessing the Costs/Benefits of Acquiring Limited Access ROW at Freeway Interchange Areas**  
  *Florida DOT*
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 student organizations and activities, serving as theses advisers, assisting students with job placement, teaching transportation and related courses, and developing 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 USF. CUTR is committed to assisting the state in training Florida’s brightest students for successful careers in transportation for the benefit of the citizens of Florida and the nation.

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.

**USF Graduate Interdisciplinary Transportation Program**

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

Students with interdisciplinary skills that can be applied to today’s transportation problems are eagerly sought by consulting firms, research centers, transportation agencies, and all levels of government.

The program is 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.

**Southeastern Transportation Center**

CUTR is a member of the Southeastern Transportation Center (STC), a consortium of 12 universities in the southeastern U.S. that have formed a partnership to serve the region as the designated U.S. Department of Transportation Region IV Transportation Research Center. With a theme of transportation safety, STC is dedicated to the mission of training professionals to address the transportation needs of the region and nation in the 21st century. 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, named in memory of the infant daughter of former CUTR Director Gary and Barbara Brosch. Applications for the scholarship are solicited and awards made in the spring 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.
EDWARD A. MIERZEJEWSKI
Director. PE, PhD, 1996, Civil Engineering, University of South Florida; MSCE, 1971, Transportation System Analysis, MIT; BSCE Transportation, 1969, Worcester Polytechnic Institute. Specialties: transportation systems analysis, environmental impact analysis, traffic and parking studies, highway planning. Professional activities: NCHRP panels—Incorporating Safety into the Long-Range Planning Process, Predicting Short-Term/Long-Term Air Quality, Transportation Effects on the 1997 NAAQC.

PATRICIA H. BALL
Administrative Services Director. BA, 1971, Political Science, University of South Florida. Specialties: research program administration, human resources management, communications, publications design and management. Professional activities: National Council of University Research Administrators, Society for Human Resources.

MICHAEL R. BALTES
Senior Research Associate. MPA, 1992, Organization Management Theory, and BS, 1989, Political Science, University of South Florida. Specialties: bus rapid transit, transit planning, policy analysis, transportation economics, bicycle and pedestrian planning, student transportation, statistical analysis, survey design and analysis, safety.

EDWARD BART
Senior Research Associate. BBA, 1989, McKendree Business College. Specialties: maintenance management, vehicle procurement, maintenance training, automated inventory control.

GARY L. BROSCH
Chair, NCTR; USF Congressional Transportation Liaison; Executive Director, Coast2Coast Rail Consortium; Editor, Journal of Public Transportation. MS, 1973, Economics, Florida State University; BS, 1971, Economics, University of South Florida. Specialties: Bus Rapid Transit, urban community economic analysis, innovative financing, urban mobility. Professional activities: Executive Committee, International Road Federation.

HOLLY J. CARAPELLA
Research Associate. MPA, Public Policy and Administration, New York University, 1995; BS, Political Science, Bradley University, 1992. Specialties: transportation and land use planning, capital programming, policy analysis, public involvement.

MARTIN CATALA

FABIAN CEVALLOS
Senior Research Associate. PhD Candidate, Florida International University; MS, 1992, Transportation Engineering, San Jose State University; BS, 1985, Civil Engineering, Universidad de Guayaquil. Specialties: public transportation, transit operations, advanced public transportation systems, transportation planning, geographic information systems, optimization techniques, computer applications, information technology.

SHIREEN CHADA
Research Associate. MS, 1994, Civil Engineering, Texas A&M University; BS, 1991, Civil Engineering, Osmania University. Specialties: transportation planning, traffic operations, intelligent transportation systems, advanced public transportation systems, benefit-cost analysis.

XUEHAO CHU
Anthony J. Ferraro

Chandra C. Foreman
Research Associate. AICP, MSP, 1994, Urban and Regional Planning, and BS, Economics, 1992, Florida State University. Specialties: environmental planning and natural resources management, neighborhood planning techniques, demographic analysis, public transportation.

Robert Frey
Research Associate. AICP. Master of Public Policy and Administration, 1993, Baylor University; BS, Public Administration and Policy Analysis, 1988, University of Wisconsin-Stevens Point. Specialties: transportation planning and policy, local government issues, access management, development procedures, public policy, public outreach.

Nevine Labib Georggi
Research Associate. MSCE, 2000, University of South Florida; BS, 1984, Civil Engineering, Cairo University. Specialties: specialized research support, reference services, database management, ITS, transportation demand management, travel behavior and modeling.

Jay A. Goodwill

Rob Gregg
Transit Management Program Director. BA, History, University Florida. Specialties: public transportation, market research, community involvement, planning, employee motivation, intergovernmental partnership coordination, advanced public transportation systems.

Christopher Hagelin
Research Associate. PhD Candidate, University of South Florida. MA, 1996, Anthropology, Ball State; BA, 1992, Anthropology, Miami University, Ohio. Specialties: transportation demand management, bicycle/pedestrian programs, transportation safety.

Larry Hagen
ITS, Traffic Operations, & Safety Program Director. PE, PTOE. Master of Engineering, 1989,
and BSCE, 1985, University of Florida. Specialties: intelligent transportation systems, advanced transportation management systems, advanced traveler information systems, electronic toll and traffic management systems, freeway management systems, traffic signal systems, traffic signal operations, traffic operations, traffic control devices, and traffic studies. Professional Activities: Past President, Florida Section ITE.

SARA J. HENDRICKS
Research Associate, AICP, MRP, 1991, Land Use Planning, University of North Carolina, Chapel Hill; BA, 1983, Film, The Pennsylvania State University. Specialties: land use planning and growth management, traffic and environmental impact analysis, transportation demand management, communications. Professional Activities: Past President, Florida Section ITE.

DENNIS P. HINEBAUGH

ANN C. JOSLIN
Senior Research Associate. BS, 1981, Business Administration, University of Central Florida. Specialties: transit planning, transportation demand management, university transportation, electronic payment systems.

FIROZ KABIR
ITS Program Manager. MS, 1990, Civil Engineering (Transportation); BS (Tech.), 1985, Civil Engineering. Specialties: intelligent transportation systems, national ITS architecture, ITS strategic planning, advanced public transportation systems, freeway management systems, traffic engineering, traffic and transit impact assessments, project quality control (ISO 9000).

A. NILGÜN KAMP
Senior Research Associate. MA, 1995, Economics, University of South Florida; MPIA, International Relations and Pacific Studies, 1992, University of California, San Diego; BA, 1990, Economics, University of California, San Diego. Specialties: market demand analysis, financial operations analysis, economic and fiscal impact analysis, statistical analysis, long-range strategic plans, management and operations analysis, marketing methods evaluation, transportation planning, transit system performance analysis, survey design and analysis.

JEFF KRAMER
Senior Research Associate. AICP, Master of City Planning, 1994, Georgia Institute of Technology; BA, 1988, Government, Cornell University. Specialties: transportation and land use planning, government relations.

LAUREL A. LAND
Senior Research Associate. AICP. MA, 1990, Urban and Regional Planning, University of Florida. Specialties: transportation and land use planning, paratransit operations, MPO processes.

MARK A. MISTRETTA
Research Associate. MA, 1997. Urban and Regional Planning, University of Florida; BS, Geography, 1995, University of South Florida. Specialties: advanced public transportation systems, survey design and analysis, transit development planning, transit peer analysis, web page design, geographic information systems.

WILLIAM P. MORRIS
Senior Research Associate. BA, 1985, Social Sciences, University of Florida. Specialties: market research, strategic planning, marketing, transportation development plans, customer service/customer relations, transit/MPO planning process, fare policy, public involvement, grant writing, training, community outreach.
VICTORIA A. PERK
Senior Research Associate. MA, Economics, 1993, University of South Florida; BA, Economics, 1992, Eckerd College. Specialties: transportation economics, transit system performance analysis, survey design and analysis, statistical analysis, transit development plans, transit service planning. Professional activities: Vice Chair, APTA Intermodal Operations Technical Forum; TRB Social/Economic Factors in Transportation Committee; TRB Intermodal Passenger Facilities Committee.

JENNIFER S. PERONE
Research Associate. MA, 2003, and BA, 1992, Psychology, University of South Florida. Specialties: human factors and cognitive engineering design, human computer interface, experimental design and analysis, statistical analysis, TDM (levels of service).

STEVEN E. POLZIN
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- Keith Thomas, Technology Coordinator
- Victoria Zambito, Training Coordinator

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- Yolanda Moore, Purchasing Coordinator
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- Patricia Baptiste, Program Assistant
- Molly Buffington, Program Assistant
- Melissa DeLeon, Program Assistant
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Erika Zappa, Economics
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:

- developing and producing training courses and conferences
- developing and producing netcasts
  - “Telecommunications and its Future Role in the Public Transportation Arena”
  - “Lessons Learned for Increasing the Effectiveness of Commuter Benefit Programs”
  - “Land Development and Access Management”
  - “Variable Pricing”
  - “Investigation of the Use of Mobile Phones While Driving”
- making presentations at meetings and conferences
- publishing newsletters and publications
  - CUTRlines
  - BRT Quarterly
  - Transit Training
  - Journal of Public Transportation
- maintaining web sites
  - www.cutr.usf.edu
  - www.nctr.usf.edu
  - www.nbri.org
- hosting listservs, such as access management, BRT, TDM, transit maintenance
- publishing papers
- publishing on-line project reports

SELECTED TRAINING COURSES

- Alternative Fuels in Transit
- Analysis of Transit Performance Data Using the Florida Transit Information System
- Bringing the TMA Handbook to Life
- Bus Collision Prevention Investigation
- Commuter Benefit Program
- Commuter Benefits: Executive Short Program
- Commuter Choice Certificate Program
- Creativity at Transit Agencies
- Defensive Driving for all Ages
- Developing a Community Decision Making Toolkit
- Florida Maintenance Training Program
- GIS for Transit Properties
- Integrating Bicycling and Public Transportation
- ITS Guidebook/Training Workshop
- Managing Today’s Transit Employees
- Managing Transit Emergencies
- The Marriage of Transit and Paratransit
- MultiMedia Imaging Technologies in Public Transportation
- National Transit Data Workshop
- Planning Market Segmentation in Transit
- Public Transit, Mobile Data, and AVL
- Substance Abuse Management and Program Compliance
- Supervisory Skills for Maintenance Managers
- Time Standards Software Training for Maintenance Managers
- Transit Bus Accident Data
- Transit Safety and Security Using APTS
- Transit System Safety
SELECTED CUTR REPORTS

- 2001 Florida Statewide Transit Training and Technical Assistance Program
- Analysis of Driver Response to Variable Tolls
- Assessing Level of Service Equally Across Modes
- Assessment of Operational Barriers and Impediments to Transit Use
- Bay County Transit Development Plan
- Bicycle Parking Plan for Miami-Dade Transit
- Coconut Grove Transit Circulator Services Technical Assistance
- Collier County Transportation Disadvantaged Service Plan
- Community Impact Assessment and Environmental Justice for Transit Agencies: A Reference
- Cops, Cameras, and Enclosures: A Synthesis of the Effectiveness of Methods to Provide Enhanced Security
- Effectiveness of Bus Signal Priority Final Report
- Electric Transit Circulator Feasibility Study
- Evaluation of First-Year Florida MPO Transit Capacity and Quality of Service
- Evaluation Results from Rideshare! Surveys
- Evaluation of the South Miami-Dade Busway
- The Feasibility of Open Road Tolling in Florida
- Florida Public Transportation Anti-Terrorism Resource Guide
- Florida Regional Crash Data Center Electronic Data Transfer Guidelines
- Florida Transit Handbook Security for Bus Operators
- Fueling Florida’s Future: Strategic Fit of Alternative Fuels in Florida
- Highlands County Transit Development Plan
- Key West Transit Development Plan
- Land Developer Participation in Providing for Bus Transit Facilities/Operations
- Lee County Variable Pricing: Reducing Peak Period Travel Using Variable Tolls
- Local Evaluation Report I-275 Dynamic Message Sign System
- Manatee County Five-Year Transit Development Plan
- Miami-Dade County Transportation Management Center Functionality
- Miami-Dade Transit Agency Rail Rehabilitation
- National Transit Bus Accident Data Collection and Analysis
- Performance Measures Report for South Florida and Bay Area Commuter Services
- Proximate Commuting: Potential Benefits and Obstacles
- Public Transit Access to Private Property
- Public Transit Investment Decisions: Per Capita Trends and Conditions
- Public Transportation Revenue Opportunities: Local Option Fuel Taxes
- Statewide Commuter Assistance Program Evaluation Report
- Synthesis of Securement Device Options and Strategies
- Telecommunications and Its Future Role in the Public Transportation Arena
- Transit Development Planning Tools
- Update of FDOT State Park & Ride Lot Program Planning Manual
- Uses of Archived AVL/APC Data to Improve Transit Performance and Management
- Value Pricing - HOT Lanes in South Florida
- Volusia County Transit Development Plan
- Where are the Future Transit Maintenance Technicians Coming From?
- Why People Cross Where They Do: The Role of the Street Environment
- Winter Haven Area Transit System Evaluation