

RESOLUTION NO. 2017-2477

A RESOLUTION OF THE TOWN COMMISSION OF THE TOWN OF SURFSIDE, FLORIDA APPROVING THE MEMORANDUM OF UNDERSTANDING (“MOU”) WITH THE VILLAGE OF BAL HARBOUR AND THE TOWN OF BAY HARBOR ISLANDS TO RETAIN THE LEHMAN CENTER FOR TRANSPORTATION RESEARCH AT FLORIDA INTERNATIONAL UNIVERSITY (FIU LCTR) TO ASSESS SHUTTLE BUS SERVICES; AUTHORIZING THE TOWN TO ENTER INTO AN AGREEMENT WITH FIU LCTR FOR SUCH SERVICES; PROVIDING FOR IMPLEMENTATION; AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the Town of Surfside (“Town”), the Village of Bal Harbour (“Bal Harbour”), and the Town of Bay Harbor Islands (“Bay Harbor Islands”), as neighboring municipalities, desire to collaborate in an effort to facilitate a more coordinated and efficient shuttle bus service and transit system with enhanced routes, efficiency and connectivity to provide better service to the three municipalities; and

WHEREAS, the neighboring municipalities wish to engage a research team from the Lehman Center for Transportation Research (LCTR) at Florida International University (FIU) to research and assess the development of a more cost-effective shuttle bus operation and transit routing, and equally share in the cost of such assessment; and

WHEREAS, FIU LCTR has provided the Proposal attached hereto as Exhibit A” for the research and assessment study to be performed; and

WHEREAS, the Town will negotiate and execute an agreement with FIU LCTR for the study, substantially in accordance with the Proposal attached hereto as Exhibit “A”; and

WHEREAS, the Town Commission desires to enter into the Memorandum of Understanding (“MOU”) attached hereto as Exhibit “B” with Bal Harbour and Bay Harbor Islands to memorialize the responsibilities of each municipality with respect to the FIU LCTR study, and authorize the Town Manager to enter into an agreement with FIU LCTR for the study, substantially in accordance with the Proposal attached hereto as Exhibit “A”; and

WHEREAS, The Town Commissions finds that the MOU is in the best interest and welfare of the Town.

NOW THEREFORE, BE IT RESOLVED BY THE TOWN COMMISSION OF THE TOWN OF SURFSIDE, FLORIDA AS FOLLOWS:

Section 1. Recitals. The above and foregoing recitals are true and correct and are hereby incorporated by reference.

Section 2. Approval and Authorization to Enter into MOU. The MOU between the Town, Bal Harbour and Bay Harbor Islands, in substantially the form attached hereto as Exhibit "B", together with such non-material changes as may be acceptable to the Town Manager and the Town Attorney as to form and legality, is approved. The Town Commission authorizes the Town Manager to execute the MOU on behalf of the Town.

Section 3. Authorization to Enter Into Agreement with FIU LCTR. The Town Commission authorizes the Town Manager to negotiate and execute an agreement with FIU LCTR, substantially in accordance with the Proposal attached hereto as Exhibit "A."

Section 4. Implementation. The Town Manager is hereby authorized to take all action necessary to implement this Resolution, MOU and the agreement with FIU LCTR.


Section 5. Effective Date. This Resolution will become effective upon adoption.

PASSED AND ADOPTED this 13th day of December, 2017.

Motion by Commissioner Paul,
Second by Commissioner Gielchinsky.

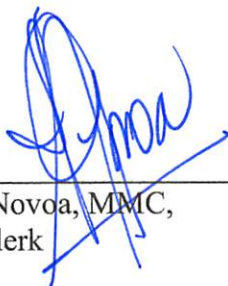
FINAL VOTE ON ADOPTION

Commissioner Daniel Gielchinsky	<u>yes</u>
Commissioner Michael Karukin	<u>yes</u>
Commissioner Tina Paul	<u>yes</u>
Vice Mayor Barry Cohen	<u>yes</u>
Mayor Daniel Dietch	<u>yes</u>




Daniel Dietch, Mayor

Attest:



Sandra Novoa, MMC,
Town Clerk

Approved as to Form and Legal Sufficiency
for the Town of Surfside Only:



Weiss Serota Helfman Cole & Bierman, P.L.
Town Attorney

Town of Surfside, Bal Harbour Village, and Bay Harbor Islands Interlocal Shuttle System Proposal

Submitted by

Fabian Cevallos, Ph.D.
Transit Program Director
Lehman Center for Transportation Research (LCTR)
Florida International University (FIU)
10555 West Flagler Street, EC 3609
Miami, FL 33174
Phone: (305) 348-3144
Email: fabian.cevallos@fiu.edu

Submitted to:

Duncan Tavares
Assistant Town Manager
Town of Surfside
9293 Harding Ave
Surfside, FL 33154
Phone: 305-864-0722 | Fax: 305-861-1302
Email: dtavares@townofsurfsidefl.gov

December 2017

BACKGROUND

Town of Surfside

Incorporated in 1935, Surfside is a town in Miami-Dade County, Florida. As of 2010, the population recorded by the U.S. Census Bureau was approximately 5,800. The total land area of the Town is approximately 0.6 square miles. This population is a varied mix of ethnicity and culture. The Town of Surfside encompasses the area from 87th Terrace to 96th Street, and it is situated between the City of Miami Beach and the Village of Bal Harbour.

The Town of Surfside operates a shuttle route that provides service within two blocks of every resident. The Surfside Shuttle operates weekdays from 7:30 a.m. to 5:16 p.m. and Saturdays from 8:00 a.m. to 1:30 p.m. This circulator route also serves the North Shore Library in Miami Beach.

Bal Harbour Village

Bal Harbour is a village in Miami-Dade County, Florida. The population in 2010 was approximately 2,500, according to the United States Census Bureau. The village has a total land area of approximately 0.3 square miles. Bal Harbour, Florida is located on the northern tip of the barrier island commonly referred to as Miami Beach. The main traffic corridor running south to north through Bal Harbour, as well as the Town of Surfside, is Collins Avenue, also known as Florida State Highway A1A.

The Bal Harbour Village Shuttle serves the commercial section of 96 Street, including Bal Harbour Shops and the residential and hotels along Collins Avenue. Each trip is extended in express mode to Sunny Isles Beach and Aventura Mall. The shuttle route runs from 9:00 a.m. to 5:00 p.m. Sunday through Thursday and from 9:00 a.m. to 9:00 p.m. on Friday and Saturday.

Bay Harbor Islands

Bay Harbor Islands is a town in Miami-Dade County, Florida. The population was approximately 5,600 according to the 2010 census and it has an approximate total land area of 0.4 square miles. It is separated from the mainland by Biscayne Bay, with which it is connected via the Broad Causeway. On the mainland side, Bay Harbor Islands is bordered by the city of North Miami, while to the east it borders with the Village of Bal Harbour and the Town of Surfside; to the south lies the exclusive Indian Creek Village.

The Bay Harbor Islands Town Minibus operates from 9:00 a.m. to 5:00 p.m. Monday through Friday. This shuttle service serves the residential areas of both islands with an extension to stops in North Miami including Costco.

Community Coordination

Surfside, Bal Harbour, and Bay Harbor Islands provide no fare (free) shuttle bus service to their passengers. All three shuttle routes have a common transfer point at the Surfside Publix located at

94 Street and Harding Avenue. Recently the three communities collaborated on the preparation of a colorful, high quality brochure showing the route alignments and stops of all three shuttles and detailed schedules of each service.

PROJECT OBJECTIVES

The Town of Surfside, Bal Harbour Village, and Bay Harbor Islands' provide mobility to its residents and visitors connecting them to municipal offices, libraries, and popular shopping. However, there is a need for restructuring the current transit service for a more efficient and cost-effective system that provides better service to all three communities. An efficient transit system should provide mobility through reliable, safe, comfortable, and accessible service to its residents and visitors. The main objective of this project is to develop a more efficient and cost-effective shuttle bus operation in Surfside, Bal Harbour, and Bay Harbor Islands that better meets the mobility needs of residents and visitors. In addition, suggestions for effectively monitoring the transit service by using technology and following transit service standards will be presented. Focus will also be on identifying cost savings for the municipalities.

To achieve this, the FIU research team proposes a series of work tasks that include meeting with staff and elected officials, collecting data and information, conducting community outreach meetings, analyzing the data and information and designing the new service, and preparing the final report.

WORK TASKS

Task 1: Meet with Staff or Officials and Setup Steering Committee

The FIU LCTR staff will meet with staff and/or elected officials to get a clearer view on the goals and to gain insight of each municipalities' impression of the service being provided. An option, if each municipality is willing, is to arrange a steering committee with one member from each municipality meeting twice: first at the project kick-off meeting and second at the presentation of recommendations before completion of the final report.

Task 2: Data Collection

- LCTR staff will conduct on-board surveys on site. Staff will also collect manual passenger counts of each bus route to determine ridership and productivity of service.
- Data to be collected would be as follows:
 - On-board self-administered survey of current riders on each shuttle route. Surveys will be in English and Spanish and will be distributed/collected by LCTR staff. All trips will be surveyed. Survey questions will be shared with each municipality for review prior to printing of survey forms.

- Ridership by trip and bus stop as well as schedule performance will be collected for all trips on one day of each route.
- Information provided by each municipality will be requested including budget, costs, and any past ridership data if available.
- Demographic and socioeconomic data will be obtained from the U.S. Census and other sources by municipality

Task 3: Community Outreach

- Separate community meetings will be arranged in each municipality or one meeting at a central location could be conducted for residents and stakeholders of all three municipalities. Handouts and displays would be prepared for the community meetings.
- A meeting with other municipalities that operate merged systems, e.g. Hialeah-Hialeah Gardens would be arranged. In addition, LCTR staff will meet with CITT and MDT for their input on a merged system for Surfside, Bal Harbour, and Bay Harbor Islands.

Task 4: Analysis of Data and Design of Service

- Analyze surveys, ridership data, and information received at meetings.
- Develop service plans and schedules with options and determine estimated operating cost for each option.
- Service plan options would be presented to the steering committee prior to completion of the final report.

Task 5: Final Report

A final report documenting all aspects of this research will be prepared and submitted to the designated Project Manager for review and comments. This will include the work tasks in this scope of work along with recommendations for operation, promotion and managing a merged system. LCTR staff will present the final report and plans at each town's commission/council meeting after submitting final report to staff. Appropriate displays of the proposed service plan would be provided. Based on the feedback, the report will be revised and finalized.

As next step and to ensure that the recommendations in the Final Report are properly used, FIU is willing to assist in the preparation of a new contract or an RFP for the selection of a transit provider, if agreed by the municipalities. FIU can also assist with coordinating with the selected transit provider for the implementation of the new routes and schedules. These "next step" tasks are optional and are not included in the budget of this proposal.

SCHEDULE

Work shall commence upon execution of the contract, with a proposed performance period of 6 months, which can be modified based on feedback from the municipalities. The schedule for completing the work tasks is given below.

Work Task	Month					
	1	2	3	4	5	6
Task 1: Meet with Staff/Elected Officials	■	■				
Task 2: Data Collection		■	■			
Task 3: Community Outreach				■	■	■
Task 4: Analysis of Data and Design of Service					■	■
Task 5: Final Report					■	■

COST PROPOSAL

The project team will include faculty, researchers, and other support staff who will work directly on the project and whose costs are reflected in the direct costs of the project. This proposed compensation and payments shall be made on a percent complete basis. The total cost for this project is \$38,967.

<i>Town of Surfside, Bal Harbour Village, and Bay Harbor Islands Interlocal Shuttle System Proposal</i>	
Budget Categories	Budget
Faculty Salaries & Benefits	\$14,272
Students and Other Professionals	\$15,154
Total Salaries & Benefits	\$29,426
Other Materials & Supplies	\$250
Printing & Reproduction	\$750
Travel	500
Total Direct Costs	\$30,926
Indirect Costs @ 26%	\$8,041
TOTAL COSTS	\$38,967

DESIGNATED PERSONNEL

- Dr. Fabian Cevallos, Transit Program Director at LCTR will serve as the Principal Investigator (PI) and will be responsible for this project.
- Dr. Albert Gan at LCTR will serve as Co-Principal Investigator (Co-PI) and assist will provide technical assistance with the different tasks of this project.
- Mr. Bob Pearsall, LCTR Senior Research Associate, will lead this project.
- FIU students at LCTR will assist with the onboard surveys and the overall tasks of this project.

RESUMES

Fabian Cevallos, Ph.D.
Transit Program Director
Associate Research Professor

EDUCATION

Ph.D. Civil Engineering (Transportation), December 2006
Florida International University, Miami, FL
Postgraduate Studies in Transportation Engineering
University of Nevada Las Vegas, Las Vegas, NV (1993-1994)
M.S. Civil Engineering (Transportation), May 1993
San Jose State University, San Jose, CA
B.S. Civil Engineering, November 1985
Guayaquil State University, Ecuador

PROFESSIONAL EXPERIENCE

Transit Program Director, Associate Research Professor
Lehman Center for Transportation Research, Miami, FL

7/06 – Present

Establish a transit program for the Lehman Center for Transportation Research (LCTR) at Florida International University (FIU). Write proposals and seek funding for research projects, manage program budget, develop innovative ideas that use transit strategies and technology to help improve transit efficiencies, participate in national research groups, and oversee researchers, consultants, and graduate students. Project sponsors include the Federal Transit Administration (FTA), the Florida Department of Transportation (FDOT), Miami-Dade Transit (MDT), and Miami-Dade County Public Works.

Co-Director of the Driving Simulation Lab to conduct multidisciplinary research and supported by the College of Engineering and Computing, the College of Nursing and Health Sciences, and the Division of Research. The Lab facilitates research in the areas of transportation safety, driving performance, driver behavior, mobility, vehicle technologies and their effect on driving, congestion, and individual and public safety.

FIU representative to the National Center for Transit Research (NCTR) Consortium. NCTR is one of the 22 national University Transportation Centers (UTCs) designated by the U.S. Department of Transportation. The goal is to advance research and education programs that address critical transportation challenges facing the nation. It supports the priorities of the U.S. Department of Transportation (DOT) and the participating universities are a critical part of the national transportation strategy.

Senior Research Associate

Center for Urban Transportation Research, Tampa, FL

10/02 – 7/06

Provide technical assistance to several transit agencies in Florida. Principal Investigator of the RAPTS (Resource for APTS) program sponsored by FDOT Central Office, Public Transit Office. Assist Florida International University in the development of an Automated Bus Stop Inventory. Projects include Automatic Passenger Counters (APCs), Electronic Fare Collection Systems, Automatic Vehicle Location System (AVL), Bus Stop Inventory, Geographic Information Systems (GIS), Real-Time Information Systems, APTS and IT/ITS master plans, Web Development, Database Programming, Database Management, Data Analysis, and Data Mining.

Senior Planner

Broward County Mass Transit, Pompano Beach, FL

12/97 – 10/02

Supervise and train Service Development staff in the areas of Geographic Information Systems (GIS) and transit databases. Database and System management of existing transit applications, including the GFI farebox, the Automatic Vehicle Location System (AVL), the Bus Stop Inventory, Ridership database, Customer Complaints, and data analysis for most of the agencies' databases. Involved in Intelligent Transportation System (ITS) projects as well as in the Advanced Public Transportation System (APTS). Agency representative for the Broward County APTS Master Plan. Oversee the SmartTrack System (AVL) and prepare documentation for the procurement of new technology Automatic Passenger Counters (APCs), Real-Time Information Systems, and updating the existing AVL System.

RELEVANT PAPERS AND REPORTS

1. Cevallos, F., J. Skinner, A. Joslin, D. McCarthy, and A. Gan, "Marketing Fixed-Route Transit to Seniors: Challenges and Recommendations," 93rd TRB Annual Meeting, January 2014.
2. Cevallos F. and X. Wang, and A. Gan, "Using a web-service to monitor transit on-time performance", *Proceedings of the 19th ITS World Congress*, Vienna, Austria, October 22-26, 2012.
3. Cevallos, F., X. Wang, and A. Gan, "Monitoring Transit On-Time Performance Real Time Using a Web-Service Dataset", Accepted for publication at the *IET Intelligent Transport Systems*, 2011.
4. Cevallos F., X. Wang, Z. Chen, and A. Gan, "Using AVL data for Improving Transit On-Time Performance", Accepted for publication at the *Journal of Public Transportation*, 2011.
5. Cevallos F. and X. Wang, "Monitoring Transit On-Time Performance Real Time Using a Web-Service Dataset", *Proceedings of the 17th ITS World Congress*, Busan, Korea, October 25-29, 2010.

6. Cevallos, F., X. Wang, Z.M. Chen, and A. Gan, "Improving Transit On-Time Performance with AVL Data: A Timetable Approach," Presented at the 89th TRB Annual Meeting, January 2010.
7. Wu, W.Y., A. Gan, F. Cevallos, L.D. Shen, and M. Hadi, "A GIS-Aided Decision-Making Process for Selecting Bus Stops for ADA Improvements," Presented at the 89th TRB Annual Meeting, January 2010.
8. Cevallos F., X. Wang, and A. Gan, "Improving Services for Special Population by using Transit ITS Data", *Proceedings of the 16th ITS World Congress*, Stockholm, Sweden, September 21-25, 2009.
9. Cevallos, F, Q. Yuan, X. Wang, and A. Gan, "Using Personal GPS Devices in Paratransit," *IET Intelligent Transport Systems*, Vol. 3, Issue 3, pp. 282-288, September 2009.
10. Cevallos F. and X. Wang, "ADAMS: A Data Archiving and Mining System for Transit Service Improvements," *Transportation Research Record No. 2063*, Journal of the Transportation Research Board, National Research Council, Washington, D.C., 2008, pp 43-51.
11. Cevallos, F., K. Kirwin, and R. Pearsall, "Using CAD/AVL Data for Performance Management," *Proceedings of the 10th International Conference on Applications of Advanced Technologies in Transportation*, ASCE, Athens, Greece, May 27- 31, 2008.
12. Cevallos, F., Q. Yuan, and X. Wang, "Feasibility Study of Applying Personal GPS Devices in Paratransit," *Proceedings of the 10th International Conference on Applications of Advanced Technologies in Transportation*, ASCE, Athens, Greece, May 27- 31, 2008.
13. Cevallos, F. and X. Wang, "APTS Data Archiving and Mining System (ADAMS)," *Proceedings of the 10th International Conference on Applications of Advanced Technologies in Transportation*, ASCE, Athens, Greece, May 27- 31, 2008.
14. Gan A., H. Wang, K. Liu, F. Cevallos, and I. Ubaka, "An Automated System for Collection and Analysis of Transit Stop Inventories," *Proceedings of the 10th International Conference on Applications of Advanced Technologies in Transportation*, ASCE, Athens, Greece, May 27- 31, 2008.
15. Wu, W.Y., A. Gan, D. Shen, and F. Cevallos, "A GIS-Based Decision Support System for Allocating Bus Stop Facilities for Disabled Riders," *Proceedings of the 10th International Conference on Applications of Advanced Technologies in Transportation*, ASCE, Athens, Greece, May 27- 31, 2008.
16. Cevallos F. and X. Wang, "ADAMS: A Data Archiving and Mining System for Transit Service Improvements," Presented at the 87th Annual Meeting of the Transportation Research Board, Washington D.C., January 15, 2008.

17. Yuan Q., F. Cevallos, X. Wang, and A. Gan, "A Prototype GPS Tracking System for Reducing Missed Customer Pickups for Paratransit," Presented at the 87th Annual Meeting of the Transportation Research Board, Washington D.C., January 15, 2008.
18. Gan, A., F. Cevallos, and I. Ubaka, "Development of a Statewide Transit Stop Inventory Field Collection System and Deployment Guidelines," Presented at the 86th Annual Meeting of the Transportation Research Board, Washington, D.C., January 2007.
19. Cevallos, F. and F. Zhao, "Minimizing Transfer Times in a Public Transit Network with a Genetic Algorithm," *Transportation Research Record 1971*, Journal of the Transportation Research Board, National Research Council, Washington, D.C., pp. 74-79, 2006.
20. Cevallos, F. and F. Zhao, "A Genetic Algorithm for Bus Schedule Synchronization," *Proceedings of the 9th International Conference on Applications of Advanced Technologies in Transportation*, ASCE, Chicago, Illinois, pp. 737-742, August 13-16, 2006.
21. Cevallos, F. and F. Zhao, "Minimizing Transfer Times in a Public Transit Network with a Genetic Algorithm," Presented at the 85th Annual Meeting of the Transportation Research Board, Washington D.C., January 2006.
22. Gan, A., I. Ubaka, and F. Cevallos, "An Automated Bus Stop Data Collection System," *Proceedings of the 2005 Conference on GIS in Transit, National Center for Transit Research (NCTR)*, Tampa, Florida, November 1-3, 2005.
23. Cevallos, F. and A. Willis, "Essential Transit Software Applications," Presented at the 79th Annual Meeting of the Transportation Research Board, Washington, D.C., January 2000.
24. Cevallos, Fabian, "Truck Factor: Basic Freeway Segments," *Transportation Risks and Rewards Compendium of Technical Papers, 46th Annual Meeting, Institute of Transportation Engineers District 6*, Las Vegas, Nevada, July 1993.

REPORTS

1. Cevallos, F., H. Wang, T. Pickering, and S. Noei, "Safe and Accessible Pedestrian Facilities Inventory Model (SAPFIM): Planning and Design", National Center for Transit Research, University Transportation Centers (UTC Consortium), May 2017.
2. Cevallos, F., H. Wang, T. Pickering, N. Defraene, and Y. Amirpour, "State of Good Repair Performance Measures: Assessing Asset Condition, Age, and Performance Data", National Center for Transit Research, University Transportation Centers (UTC Consortium), June 2016.
3. Cevallos, F., T. Pickering, K. Shams, M. Rezaei, and P. Mankotia, "Transit Service Reliability: Analyzing Automatic Vehicle Location (AVL) Data For On-Time

Performance and to Identify Conditions Leading to Service Degradation”, National Center for Transit Research, University Transportation Centers (UTC Consortium), March 2016.

4. Cevallos, F., T. Pickering, S. Noei, Y. Amirpour, and J. Aldajuste, “Training Manual for Transit Service Planning and Scheduling”, National Center for Transit Research, University Transportation Centers (UTC Consortium), December 2015.
5. Cevallos F., H. Wang, A. Gan, and T. Pickering, “ATSIM 4.0 User’s Guide,” Prepared for the Florida DOT, Public Transit Office, May 2013.
6. Cevallos, F., Q. Yuan, X. Wang, J. Skinner, and A. Gan, “Feasibility Study on the Use of Personal GPS Devices in Paratransit”, Prepared for the Federal Transit Administration, May 2009.
7. Cevallos, F., “Florida Advanced Public Transit Systems Program,” Final Report, Prepared for the Florida DOT, Public Transit Office, April 2009.
8. Cevallos, F., “Using Technology to Improve Service Planning,” Prepared for Miami-Dade Transit, February 2008.
9. Cevallos, F., “Advanced Public Transportation Systems (APTS) Technical Assistance for VOTRAN,” Prepared for the Center for Urban Transportation Research, January 2008.
10. Cevallos, F., “APTS Data Archiving and Mining System (ADAMS),” Final Report, Prepared for the Florida DOT, Public Transit Office, September 2007.
11. Cevallos, F., “MDT Technical Memo: Using CAD/AVL Schedule Adherence Data,” Prepared for Miami-Dade Transit, April 2007.
12. Cevallos, F., “Automatic Passenger Counters Technical Memorandum,” Prepared for Palm Tran, 2007.
13. Cevallos F., “MDT Technical Memorandum: APTS Data,” Prepared for Miami-Dade Transit, October 2005.
14. Cevallos F., “APTS Data Mining and Analysis,” Final Report, Prepared for the Florida DOT, Public Transit Office, April 2005.
15. Cevallos F., “Automated Passenger Counters (APCs) Technical Specifications,” Prepared for Miami-Dade Transit, March 2005.
16. Gan, A. and F. Cevallos, “Development of an Automated Bus Stop Data Collection and Analysis System,” Final Report, Prepared for Florida DOT, February 2005.
17. Cevallos F., “APTS Technology: Automatic Vehicle Location (AVL). The Broward Experience,” Resource for Advanced Public Transportation Systems (RAPTS), 2003.

SOFTWARE SYSTEMS

- Automated Transit Stop Inventory Model (ATSIM) Version 4: <http://ftis.org/atsim.html>
- APTS Data Archiving and Mining System (ADAMS), Resource for Advanced Public Transportation Systems.
- Passenger Ridership Data Collection System - TranStats, Developed for Broward County Transit.
- Field Surveyor Assignments Developed for Broward County Transit.
- Transit Complaint System, Developed for Broward County Transit.
- Bus Stop Inventory, Developed for Broward County Transit.

SPONSORED RESEARCH PROJECTS

1. PI: *Trolleys and Community Buses in South Florida: Providing Transit Service to a Special Segment of the Population*. Public Transit Office, Florida Department of Transportation, \$171,715, 2017-2018 (Co-PI: Albert Gan).
2. PI: *State of Good Repair Performance Measures: Assessing Asset Condition, Age, and Performance Data*, National Center for Transit Research, University Transportation Centers (UTC Consortium), \$339,760, 2013-2015 (Co-PI: Albert Gan).
3. PI: *Transit Service Reliability: Analyzing Automatic Vehicle Location (AVL) Data For On-Time Performance and to Identify Conditions Leading to Service Degradation*, National Center for Transit Research, University Transportation Centers (UTC Consortium), \$185,000, 2013-2014 (Co-PI: Albert Gan).
4. PI: *Development of a Training Manual for Transit Service Planning and Scheduling*, National Center for Transit Research, University Transportation Centers (UTC Consortium), \$130,000, 2013-2014 (Co-PI: Albert Gan).
5. PI: *Transit Stop Inventory Model (ATSIM) Training and Technical Support*, Public Transit Office, Florida Department of Transportation, \$34,800, 2012-2013 (Co-PI: Albert Gan).
6. PI: *Web Tool for Managing Human Services Transportation in the Town of Brookhaven*, Town of Brookhaven, New York, \$75,000, 2013 (Co-PI: Albert Gan).
7. PI: *Automated Transit Stop Inventory Model (ATSIM) Development and Technical Support*, Public Transit Office, Florida Department of Transportation, \$135,000, 2012-2013 (Co-PI: Albert Gan).
8. PI: *Florida Advanced Public Transportation Systems Program*, Public Transit Office, Florida Department of Transportation, \$135,000, 2010-2011 (Co-PIs: Albert Gan and Mohammed Hadi).

9. PI: *Needs Assessment for Transit and GIS Data Clearinghouse*, Public Transit Office, Florida Department of Transportation, \$73,850, 2010-2011 (Co-PI: Albert Gan).
10. PI: *Development of a Web-Based Reporting System to Use Transit ITS Data to Help Improve Services for Special Populations*, Federal Transit Administration, \$140,000, 2006-2008.

Albert Gan, Ph.D.
Professor

EDUCATION

Ph.D. University of Florida Civil Engineering (Transportation) 1996
M.E. University of Florida Industrial and Systems Engineering 1989
B.S. University of Florida Industrial and Systems Engineering 1987

PROFESSIONAL EXPERIENCE

2012-Present *Professor*, Civil and Environmental Engineering, FIU
2012-Present *Coordinator*, National Center for Transportation Systems Productivity & Management
2004-Present *Deputy Director*, Lehman Center for Transportation Research, FIU
2004-2012 *Associate Professor*, Civil and Environmental Engineering, FIU
1999-2001 *Assistant Director*, Lehman Center for Transportation Research, FIU
1999-2004 *Assistant Professor*, Civil and Environmental Engineering, FIU
1996-1998 *Assistant in Engineering*, Civil Engineering, UF
1990-1996 *Graduate Research Assistant*, Civil Engineering, UF
1988-1989 *Graduate Teaching Assistant*, Industrial & Systems Engineering, UF

RELEVANT REFEREED JOURNAL PAPERS

1. Haleem, K. and A. Gan, "Contributing Factors of Crash Injury Severity at Public Highway-Railroad Grade Crossings in the U.S.", *Journal of Safety Research* (accepted).
2. Gan, A., F. Gui, and L. Tang, "System for Transit Performance Analysis Using the National Transit Database," *Journal of Public Transportation*, Vol. 14. No. 3, pp. 87-107, 2011.
3. Gan, A. C., I. Ubaka, and F. Zhao, "Integrated National Transit Database Analysis System (INTDAS)," *Transportation Research Record 1799, Journal of the Transportation Research Board*, National Research Council, pp. 78-88, 2002.

SPONSORED RESEARCH PROJECTS

As Principal Investigator

1. *ITS Research, Computer, and Miscellaneous (Work Order 6)*, FDOT District 4, 2015-2015.
2. *Feasibility of a Web-Based System for Police Report Review and Information Recording*, State Safety Office, Florida Department of Transportation, 2013-2014

3. *Analysis and Evaluation of Transit Data Using Florida Transit Information System (FTIS)*, Public Transit Office, Florida Department of Transportation, \$59,320, 2013-2014.
4. *Development of Florida Transit Information System Version 2013*, Public Transit Office, Florida Department of Transportation, 2012-2013.
5. *INTDAS Peer Selection Database Update*, Citizen's Independent Transportation Trust (CITT), 2012-012.
6. *Development of Florida Transit Information System (FTIS) 2012*, Public Transit Office, Florida Department of Transportation, 2011-2012.
7. *An Integrated Database and Analysis System for the Evaluation of Freeway Corridors for Potential Ramp Signaling*, Florida Department of Transportation, 2010-2011.
8. *Development of a Web Portal for 2060 Florida Transportation Plan*, Systems Planning Office, Florida Department of Transportation (through Cambridge Systematics, Inc.), \$30,000, 2010-2012.
9. *Preparing Florida for SafetyAnalyst Deployment*, State Safety Office, Florida Department of Transportation, 2010-2011.
10. *Development of a Data Framework for FSUTMS*, Systems Planning Office, Florida Department of Transportation, \$205,000, 2008-2009 (Co-PI: Kaiyu Liu)
11. *A Methodology for Performance Measurement and Peer Comparison in the Public Transportation Industry*, Transit Cooperative Research Program (TCRP), Subcontract from Kittelson and Associates, Inc., 2008-2010.
12. *Development of Web FTIS Version 2008*, Public Transit Office, Florida Department of Transportation, \$142,714, 2007-2008.
13. *System Support for Crash Reduction Analysis System Hub (CRASH)*, Florida Department of Transportation, \$16,000, 2007-2007.
14. *Development of Prototype GIS Systems for Transportation Model Networks for FSUTMS*, Transportation Systems Planning, Florida Department of Transportation, \$110,000, 2007-2008.
15. *Development of a Computer-Based Training (CBT) Course for the FSUTMS Comprehensive Modeling Workshop*, Transportation Systems Planning, Florida Department of Transportation, \$100,000, 2007-2008.

WEB-BASED SOFTWARE SYSTEMS

1. Integrated National Transit Database Analysis System (Rural INTDAS)
2. Police Crash Report Review System (PCRRS)
3. Florida Highway Information System (FHIS)
4. Visual Roadway Inventory Collection System (VRICS)
5. Florida Guardrail Inventory System (FGI)
6. FTGIS Online Tutorial (http://ftis.org/ftgis_tutorials/)
7. INTDAS Online Tutorial (http://ftis.org/intdas_tutorials/)
8. FDOT District 6 SunGuide Website (www.sunguide.org)
9. FDOT District 6 Contract Management System (running on FDOT D6 Intranet)
10. Florida Traffic Safety Portal (developed for FDOT State Safety Office)
11. FSUTMS Executive Summary Online Workshop and Management System (developed for FDOT Systems Planning Office)
12. FSUTMS-CUBE Comprehensive Modeling Online Workshop (developed for FDOT Systems Planning Office)
13. Integrated National Transit Database Analysis System (Urban INTDAS web version)
14. Florida Transit Geographic Information System (FTGIS web version)
15. TRANSP GIS (developed for Federal Transit Administration)
16. FDOT District 6 Road Ranger Drivers Information System (running on a FDOT District 6 web server)
17. FDOT District 6 SunGuide TMC Control Room Operations Intranet (running on a FDOT District 6 web server)
18. SMART SunGuide Road Ranger Training Website (running on a FDOT District 4 web server)
19. SMART SunGuide TMC Operator Training Website (running on a FDOT District 4 web server)
20. Resource for Advanced Public Transportation Systems (RAPTS)
21. Road Ranger Inspection Program (RRIP) (a Tablet PC system developed for FDOT District 6)
22. Road Ranger Contractor Inspection Program (RRCIP) (a Tablet PC system developed for FDOT District 6)

Robert Pearsall
Senior Research Associate

TRANSIT PLANNING AND SCHEDULING

Robert Pearsall has 38 years of experience in transit planning and scheduling for Miami-Dade Transit (MDT), a major U.S. public transportation system. Recently retired in January, 2013, he has been managed and worked in all components of the transit service planning process and directed the transit crew scheduling staff. His work includes major contributions in the short and long range transit and transportation plans for Miami-Dade County and Department project manager for several consultant studies.

Major accomplishments and functional responsibilities at Miami-Dade Transit:

- Chief of the MDT Service Planning and Scheduling Division responsible for managing a professional staff in the development of all short-range transit service expansion, reduction, and restructuring activities.
- Managed data collection and analysis of all transit service modes including the integration of new data technologies such as APC and AVL.
- Developed the bus service element for the Miami-Dade County People's Transportation Plan in 2002 and achieved a highly effective restructuring of the MDT bus system network in 2009.
- Directed a cost-efficient transit service scheduling process including trip development, runcutting, and rostering.
- Managed transit market research studies by research firms which included periodic system wide surveying of transit passengers and telephone surveys of the general public.
- Project planner for several major transportation projects in South Florida including the I-95 High Occupancy Toll Lanes, the South Miami Busway, Miami Intermodal Center and Airport Metrorail Station, Miami-Dade municipal circulator system, and coordination of feeder buses with the South Florida Regional Transportation Authority commuter rail system.

Part-time consulting since retirement from Miami-Dade Transit includes the following:

- Assisted MP2 Planning LLC in 2013 with a study for the City of Doral, Florida examining alternative fuel technologies to be considered in advance of making addition purchases for its trolley fleet.
- Provided expert support for MP2 Planning in 2013 with the data collection methodology of a research project to survey the City of Doral's trolley passengers.

- Consulted with the Florida International University Lehman Center for Transportation Research in 2014 to provide guidance and editing of a training manual for mass transit planners and schedulers.

EDUCATION

- Masters of Business Administration, Florida International University, 1984
- Bachelor of Arts, Florida International University, 1974