



**Center for Urban Transportation Research (CUTR)
University of South Florida
Advisory Board Meeting**

Agenda

**Thursday, August 31, 2017 1:30 – 3:00 pm
CUTR Board Room**

Teleconference Call/CUTR Boardroom

United States: +1-800-832-0736

Room Number: *2161243#

- **Call to Order**
- **Roll Call**
- **Approval of Minutes from June 1, 2017**
- **Director's Report**
 - USF/COE and CUTR Updates
 - New Contracts/New Proposals -- See attachment
 - Fundraising for Classroom and Lecture Hall upgrades
 - Upcoming Events
 - Achievement Awards – Sponsorships and Growing the Event
 - Volinski Valedictory Lecture
- **CUTR Transportation Achievement Award Event**
 - Venue/Date
 - Sponsorships / Attendees
- **Chair's Comments**
 - Bylaws – See attachment
- **Board Member Discussion**
- **Board Member Updates**
- **Upcoming Board Meeting Dates**
 - October 4, 2017 with CUTR Transportation Achievement Awards event at 5:30 pm
 - January/ February 2018 meeting -- Doodle poll
- **Adjourn**



CUTR Advisory Board Meeting

**Minutes
June 1, 2017**

Center for Urban Transportation Research, Boardroom
3808 Alumni Drive, Tampa, FL 33620

Attendees:

Advisory Board Members and Designees:

Thornton Williams, Williams Law Group, P.A., Chair
Kim DeBosier, Vice Chair, JMT
Ed Coven, FDOT (called in)
Sonny Holtzman, The Holtzman Group (called in)
Ram Kancharla, Port Tampa Bay
Jon Martz, Enterprise Holdings, Inc.
Bob O'Malley, CSX Transportation (called in)
Scott Rogers, Florida DEO (called in)
Chris Stahl, Florida DEP (called in)
Joe Waggoner (called in)

CUTR:

Robert Bertini
Christine Epps
Rob Gregg
Dennis Hinebaugh
Chanyoung Lee
Pei-Sung Lin
Steve Polzin
Stephen Reich
Kristine Williams
Phil Winters

Students:

Daniel Kress
Ashok Sampath

CUTR Advisory Board Meeting

Thornton Williams called the meeting to order at 1:30pm.

Introduction:

Introductions were made around the table. It was determined that a quorum was met.

Approval of Meeting Minutes:

Following a request by Thornton Williams to approve the February 17, 2017 meeting minutes, Jon Martz made a motion to approve the minutes as submitted and Ram Kancharla seconded the motion. The minutes were unanimously approved.

The board members viewed the video “Shared Autonomy” from Morgan Stanley. The CUTR Director suggested that CUTR could make a similar video that could be shown to the Senate Transportation Committee.

Student Presentations:

Variable Speed Limit Project

Daniel Kress

Daniel Kress, an international exchange student from Germany, provided a presentation concerning his research on variable speed limit systems. He described the uses of adjustable speed limit signage for changes in weather, including the use of sensors in the pavement to determine temperature, water, and chemicals and the use of optical and thermal sensors to determine weather and road conditions.

He also described how lasers are used to detect speed of vehicles, the use of cell phone tracking to determine speed and volume of vehicles to manage congestion. He described an overhead electric sign that displays speed limit and any hazards ahead, road conditions, weather and volume. All of the data is put into an algorithm and the algorithm then determines the speed limit needed based on conditions.

Kress described the goals and benefits as harmonized and stabilized traffic flow, save time and money and less travel time.

The challenges described by him was the compliance to speed limit since drivers may not adhere to the speed limit if there is no law. In Germany, laws are enforced by cameras. There is also the challenge of having too much data for the algorithms, and the display of wrong messages or speed limit.

The board took the opportunity to ask Kress several questions concerning the algorithms, how many countries have this system, legal issues and enforcement.

Morgan Street Complete Streets Project

Kristine Williams and Ashok Sampath

USF student Ashok Sampath and USF Instructor, Kristine Williams presented information about the Morgan Street Complete Streets Project. Florida has a statewide complete streets implementation plan. The USF class helps students learn about complete streets using “real-world” applications. Each team prepared a complete street design using Morgan Street in Tampa as a project.

In 2005-2016 there were 293 crashes and 9 bike/pedestrian crashes in this area. The goals of projects were safety, accessibility, and increased economic vitality.

Student design concept included a separate signal for pedestrians and bikes, pedestrian lanes, a green protected bike lane, a bus stop shelter, permeable brick paver sidewalks that would absorb water, parklets in some of the parking lanes, energy harvesting in bus shelters, street lights with solar panels and lithium battery collecting energy under the streets.

The board asked questions concerning future development and demand, what time period was used. Ms. Williams indicated that the students did an outstanding job on the projects and two students have recently gained employment using this project as part of their CV. One more student is actively pursuing employment.

Director's Report:

USF/COE and CUTR Updates:

CUTR was honored to recognize Women's History Month in March. The USF student chapter of the Institute of Transportation Engineers (ITE) had a tour of the Port Tampa Bay in March. Congratulations to Kimberlee DeBosier for receiving the Dean's Distinguished Service Award at the USF Engineering Excellence Awards in April. Thornton Williams spoke at the College of Engineering Advisory Board in April.

Dr. Bertini provided a presentation to USF President Judy Genshaft concerning the opportunity to use the USF campus as a test bed for transportation innovation and thus have our work proliferate on the USF campus.

The Board reviewed options for the new CUTR logo design. The board indicated that they would like to have the letters bigger; all the words spelled out seem too small. The board would like to keep the USF colors. It should be designed to be PowerPoint friendly.

A poster was placed in the CUTR reception area with the CUTR Transportation Achievement award recipients with the new subtitle of the Florida Transportation Hall of Fame™.

Staff updates:

- Joel Volinski will be retiring in December, plans for a Future of Public Transportation valedictory lecture and reception are underway for Thursday, November 9, 2017.

Staff updates continued:

- Jan Davis is retiring in August 2017.
- Steve Reich is shifting to a part-time role.
- Sisinnio Concas is moving to Program Director.
- Abdul Pinjari will be taking a leave of absence.
- Michael Maness will be arriving in CEE.

USF is hiring up to 100 more professors in the next 3 years. CUTR is included in the strategic plan to get more faculty. The goal is to reduce student/faculty ratio.

New Contracts/New Proposals:

CUTR is involved with the following UTC's with CTech, Cornell University, UTEP and UC Davis:

- Electric Vehicle Sharing Planning and Operations (\$47,532)
- A Life Cycle Assessment Framework for Pavement Maintenance and Rehabilitation Technologies (\$67,963)
- Impacts of Transit-Oriented Compact-Growth on Air Pollutant Concentrations and Exposures in the Tampa Region (\$30,461)
- Reducing Airport Pollution and Consequent Health Impacts to Local Community (\$44,542)
- Regulating Hazardous-materials Transportation with Behavioral Modeling of Drivers (\$32,221)
- Spatial Sustainability Assessment of Green Stormwater Infrastructure for Surface Transportation Planning (\$50,892)

C-TEDD – University of Texas Year 1 Projects include:

- Improving Transportation Performance Measurement via “Big Data” Systems Phase 1 [Barbeau/Hayward/Bertini \$65,000][Match needed: \$32,500]
- Assisting New Transit Riders, including those with Disabilities, via an App Designed for All [Barbeau \$65,000][Match needed: \$32,500]
- Moving Communities Forward: Social Marketing and Social Change for Transportation [Bond/Lester \$50,000][Match needed: \$25,000]

The NCTR grant has \$850,000 remaining for the final year for a new slate of externally relevant research, education or technology projects. CUTR internal submissions will be received for consideration to allocate these funds. The grant expires on 9/30/2018. CUTR will request an extension.

The Director highlighted projects and proposals that are new as of 2/17/2017 listed on the handouts provided to board members.

Kristine Williams provided a clarification that the Florida Access Bench project is not being funded by Aerospace; it is being funded by FDOT.

Report on Financial Status of CUTR:

The board reviewed a slide with the research expenditures from fiscal year 2012 through 2016 and the 2017 forecast.

Chair Williams indicated he and Dr. Bertini have had extensive discussions about providing more information to the board. The Chair invited board members to provide any feedback on how to make the board meetings better and substantive.

Several board members offered ideas and information for project ideas, contacts, CUTR's role, conferences, funding and building partnerships.

CUTR Transportation Achievement Award Nomination Committee Report:

The CUTR Transportation Achievement Award Nomination Committee recommended Maurice Ferré, Florida Transportation Commissioner and former Mayor of Miami to be the next CUTR Transportation Achievement Award recipient during a teleconference on April 12, 2017. All members were in agreement. The selection has not been made public since the awardee would like it to be announced at the Florida Transportation Commission meeting. A "Save the Date" announcement will be distributed prior to official notification.

The board discussed having a joint board meeting with the Florida Transportation Commission. Members were in favor of the idea. There was a motion to set up a meeting time and location. The motion was seconded and it was unanimously approved through a vote.

CUTR Transportation Achievement Award Event:

The board discussed the upcoming CUTR Transportation Achievement Awards. The attendance goal is 350 people. The event will be held at the USF Student Marshall Center on Wednesday, October 4, 2017. The board reviewed the sponsorship levels. The award is transforming the CUTR Transportation Achievement award recipient with the addition of the subtitle of the "Florida Transportation Hall of Fame™." The Chair explained that government and private entities would then be more likely to attend. The Chair indicated that the new Florida Department of Transportation Secretary will be invited to the event once appointed.

The board discussed the possibility of members sending invitations via email to invite colleagues. Suggestions were also made to place a list of attendees on the website to encourage attendance, and/or a list of past attendees. Board members were encouraged to provide their input for the awards event.

CUTR Advisory Board Officer Nomination Committee Report:

A teleconference was held with the CUTR Advisory Board Officer Nomination Committee to determine the officers for the year. The board reviewed the report. Thornton Williams will

continue to serve as the Chair and Kim DeBosier agreed to serve one more year as Vice Chair. The board is in compliance with the CUTR Board by-laws.

Florida Transportation Commission:

The board discussed the Team Florida Joint meeting to be held in fall 2018. CUTR could host a reception at the end of the first day, with the Team Florida dinner to follow. This reception could be used as a fundraiser for CUTR. Team Florida wants to help maximize attendance for CUTR and does not require any co-branding. Invitation letters could be distributed to everyone, including committee members.

Chair's Comments:

The Chair indicated that the format of board meetings may change to allow for more discussion of substantive issues and member interaction. Moving the meeting time and including lunch are under consideration. The Chair invited suggestions from board members.

Board Member Discussion:

None.

Board Member Updates:

Steve Polzin indicated that CUTR has been approached by an organization to be on a team involving automated vehicles.

Ed Coven stated that FPTA/FDOT/CUTR will be hosting a professional development workshop next week with many participants and training sessions.

Joe Waggoner indicated that the FDOT Secretary added \$22 million (total) to FDOT District 7 for a project involving connected vehicles.

Dr. Bertini stated that CUTR may help the DHSMV workgroup with analysis on response time for service providers through the motorcycle institute. CUTR is under consideration.

Board members agreed to a group photo that would be taken on October 4, 2017 at 1:30pm at CUTR.

Upcoming Board Meeting Dates:

The Board meeting's summer annual teleconference will be held in August 2017.

October 4, 2017, 1:30 pm with CUTR Transportation Achievement Awards event at 5:30 pm.

Adjournment:

The meeting was adjourned at 3:22pm.

University of South Florida, Center for Urban Transportation Research New Projects opened 05/25/2017 - 08/17/2017

Project:	Standards Development and Technical Assistance Cooperative Agreement
Sponsor:	Federal Transit Agency
PI(s):	Staes/Hinebaugh
Value:	\$1,000,000
Description	In 2016, FTA contracted with the Center for Urban Transportation Research to perform research and conduct stakeholder engagement to support FTA's Standards Development Program. This amended scope of work reflects an ongoing commitment to the process, specifically focused on stakeholder engagement and research, gap analysis, and recommendations related to transit safety standards in 27 focus area topics covering rail and non-rail transit modes. It may also include research directed in support of transit standards that are not specific to safety, as assigned.
Project:	Construction Cost Trends 2017-2018
Sponsor:	Florida Department of Transportation
PI(s):	Polzin
Value:	\$14,523
Description	This project will continue CUTR involvement in monitoring construction cost trend data for FDOT. This monthly data assembly produces a quarterly report provided to the FDOT executive committee that documents several indicators known to influence construction cost levels.
Project:	FDOT District One Commuter Assistance Program Assessment
Sponsor:	Florida Department of Transportation
PI(s):	Gregg/Winters
Value:	\$72,130
Description	Provide both technical assistance to, and a strategic analysis of, the Commuter Assistance Program.
Project:	FDOT District One Commuter Assistance Program Interim Management, Task 16
Sponsor:	Florida Department of Transportation
PI(s):	Winters/Hendricks
Value:	\$180,410
Description	CUTR to provide management services to maintain the existing FDOT District One Commuter Assistance Program (CAP) to assure uninterrupted services to CAP Partners and commuters while the program is undergoing an evaluation of performance and a review of institutional and programmatic options moving forward.

Project: Florida Commuter Assistance Program Evaluation
Sponsor: Florida Department of Transportation
PI(s): Winters
Value: \$191,343
Description The primary objective for this project is to assess the Florida commuter assistance programs contribution to the Florida Department of Transportation's goals.

Project: Florida's Bicycle Pedestrian focused initiative Communication and High Visibility Enforc
Sponsor: Florida Department of Transportation
PI(s): Line/Kourtellis
Value: \$6,750,000
Description In support of the Alert Today, Alive Tomorrow campaign; to negotiate and contract with law enforcement agencies to provide high visibility enforcement, with advertising companies to develop and conduct media buys, and purchase educational and outreach items in support of communication initiatives.

Project: Pedestrian & Bicycle Safety; Hillsborough, Pinellas, Pasco, Hernando & Citrus
Sponsor: Florida Department of Transportation
PI(s): Bond
Value: \$159,000
Description A program to encourage pedestrian and bicyclist safety, through an outreach program.

Project: Substance Abuse Program Management
Sponsor: Florida Department of Transportation
PI(s): Staes/Byrnes
Value: \$277,876
Description In accordance with 49 CFR, Part 655, the Florida Department of Transportation (Department), as a recipient and administering agency of Federal funds distributed under 49 USC, Section 5311, has certification, reporting and oversight responsibilities for compliance on behalf of transit agencies in Florida that receive these funds. USF project team will perform these functions on behalf of the FDOT.

Project: Traffic Adjustment Factors for Florida High Tourist Activity Sites
Sponsor: Florida Department of Transportation
PI(s): Ozkul/Lin
Value: \$119,947
Description The major goal of this task work order (TWO) is to determine the seasonal, monthly, weekday and weekend traffic adjustment factors for each analysis site (roadways leading to major tourist attraction areas) for a 12 month period by accurately collecting, storing and analyzing traffic count data at/in close vicinity of the analysis sites. The results obtained from this TWO will be used as an update or revision of the current adjustment factors used for high tourist activity sites and will help FDOT to compare the differences between the adjustment factors from these heavy touristic activity sites and other sites FDOT analyzes in house.

Project: Understanding Interactions between Drivers & Pedestrian Features
Sponsor: Florida Department of Transportation
PI(s): Lin/Kourtellis/Wang
Value: \$325,460
Description Interactions between drivers and pedestrian at intersections

Project: Metropolitan Planning Organization Advisory Council Institute 2017-2018
Sponsor: Florida MPO Advisory Council
PI(s): Kramer
Value: \$85,000
Description Training institutes for MPO Board members.

Project: Metropolitan Planning Organization Advisory Transportation Planning Services
Sponsor: Florida MPO Advisory Council
PI(s): Kramer
Value: \$55,000
Description CUTR will perform a variety of transportation planning, research and technical support services for the Florida MPO Advisory Council (MPOAC) and it's 27 member MPOs.

Project: New North Transportation Alliance 2017 County Funding
Sponsor: Hillsborough County
PI(s): Hendricks/Bond
Value: \$12,500
Description Transportation management initiative with the New North Transportation Alliance

Project: Assessing Applications of Light Autonomous Vehicle on USF Tampa Campus
Sponsor: Hillsborough County MPO
PI(s): Pessaro/Hinebaugh
Value: \$75,000
Description Assessing Applications of Light Autonomous Vehicle on USF Tampa Campus

Project: Performance Based Planning for Traffic Systems Management & Operations
Sponsor: LEIDOS
PI(s): Bertini
Value: \$24,055
Description Performance Based Planning for Traffic Systems Management & Operations

Project: STOLII for Transportation System Simulation Manual
Sponsor: LEIDOS
PI(s): Bertini
Value: \$51,666
Description Transportation System Simulation Manual creation.

Project: Clean Vehicles, Fuels & Practices for Airport Private Ground Transportation
Sponsor: National Academy of Sciences
PI(s): Kolpakov
Value: \$40,000
Description The objective of this research is to compile airport's, and private ground transportation operator's, experiences and practices with the use of clean vehicles and alternative fuels in fleets serving the airport.

Project: Mobility on Demand Sandbox Products
Sponsor: Pinellas Suncoast Transit Authority
PI(s): Pessaro
Value: \$28,166
Description To evaluate and develop performance measures specific to the proposed PSTA Sandbox grant pilot for the Mobility on Demand (MOD) Sandbox Products. CUTR will utilize the identified performance measures to evaluate the pilot project. Data will be provided from the transportation vendor partners during the period of the project.

Project: Safe Routes to School; Sumter, Lake and Marion Counties

Sponsor: University of Florida

PI(s): Bond

Value: \$17,747

Description Safe Routes to School (SRTS) promotes and encourages the creation of safe environments for students bicycling and walking to and from school. The overall goal of SRTS is to establish sustainable school based walking and bicycling focused programs. A six pronged approach is typically utilized: education, encouragement, engineering, enforcement, evaluation and equity.

Total Value: \$9,479,823

University of South Florida, Center for Urban Transportation Research Pending Proposals; submitted 05/25/2017 - 08/17/2017

Project: Transportation Disadvantaged State-Wide Service Analysis

Sponsor: Agency for Persons with Disabilities

PI(s): Gregg/Joslin

Value: \$100,000

Description: To provide expert analysis of existing transportation disadvantaged services, and potential service improvements.

Project: FTA Safety Research Demonstration Program - Projects and Program Evaluation

Sponsor: Federal Transit Administration

PI(s): Staes/Concas

Value: \$750,000

Description: The primary objectives of this project are to evaluate FTA SRD demonstration projects, assess the contribution of these projects towards advancing FTA SRD programmatic goals of improved collision avoidance and increased workers safety, and estimate the broader national level impact of SRD projects. The project level evaluation will be conducted in coordination with the self-developed performance measures established by SRD award recipients. Coordination will extend to define a data collection plan to assess each project impact on target performance measures and to assess impacts at the programmatic level. In addition to the projects listed above, FTA may direct the project team to perform independent analyses on projects that have been performed or that are underway within the Safety, Resiliency, and All Hazards Emergency Response and Recovery Research Demonstrations (SRER) Program and/or projects that potentially have significant impact in the safety of the transit industry.

Project: Florida Healthy Community and Complete Streets Program Support

Sponsor: Florida Department of Health

PI(s): Williams

Value: \$53,983

Description: To help develop FDOH's new Florida Healthy Community Policy Program and related initiatives. The goals of the program are to increase the number of Florida municipal level complete streets policies recognized on the Smart Growth America Policy Atlas and thereby promote the health and equity benefits of effective complete streets policies. These goals will be accomplished through increased engagement of Florida municipal level government officials and staff, county health department staff and other key agencies and stakeholders. CUTR will assist the Department in this effort through identification of technical assistance resources and opportunities, website development, and other related program activities.

Project: Enhancing the Cybersecurity of Vehicles in Public Transportation

Sponsor: Florida Department of Transportation

PI(s): Barbeau

Value:

Description: Budget To Be Determined

Project: Integration of a Robust Automated Pedestrian Detection System for Signalized Intersections

Sponsor: Florida Department of Transportation

PI(s): Lin/Wang/Kourtellis

Value: \$249,467

Description: The overall objective of this project is to research and develop an accurate and reliable automated pedestrian detection system at signalized intersections and mid-blocks crosswalks with HAWKS, RRFBs and full pedestrian signals through integration of pedestrian detection technologies or improved available pedestrian detection systems on the market.

Project: Understanding Ridership Trends in Transit

Sponsor: Florida Department of Transportation

PI(s): Polzin

Value:

Description: Budget To Be Determined

Project: Understanding Safety Effects of Street Lighting in Pedestrian Fatality Reduction and Development of Crash Modification Factors

Sponsor: Florida Department of Transportation

PI(s): Lin/Wang

Value: \$118,584

Description: This study aims to 1) understand the relationship between nighttime pedestrian crashes (frequency and severity) and street lighting patterns (horizontal/vertical illuminance, uniformity, and/or veiling luminance); 2) identify contributing factors to pedestrian crashes (frequency and severity) at night, especially for fatal crashes; 3) develop CMFs for street lighting patterns on nighttime pedestrian crashes; and 4) provide findings and recommendations to improve street lighting systems to prevent Florida pedestrian crashes and fatalities at night.

Project: Operator Policies, Procedures, and Training Course
Sponsor: Florida Southern College
PI(s): Staes
Value: \$7,641
Description: CUTR will provide a one-day Operator Policies, Procedures, and Training Course for Florida Southern College for up to 40 participants.

Project: Transit System Safety Audit Presentation
Sponsor: Gulf Regional Planning Commission
PI(s): Berry
Value: \$2,289
Description: CUTR Bus System Safety and Security Reviewer Kent Smith will provide a safety audit presentation and subsequent discussion during the SAC Conference in partnership with the Mississippi Gulf Coast Metropolitan Planning Organization membership.

Project: Linking Traffic Management and Travel Demand Management
Sponsor: LEIDOS
PI(s): Winters
Value: \$72,494
Description: Provide information and support to help bridge the gap between transportation demand management and traffic management communities by first motivating stakeholders to understand the value of integrating TDM and traffic management, and then providing specific actions to help make it happen in a region.

Project: Special Mobility Needs Sensitivity and Communication Program Phase II - Comprehensive Customer Care Program
Sponsor: LYNX Central Florida Regional Trans
PI(s): Joslin/Gregg
Value: \$129,000
Description: Public transit providers and human service transportation providers must be mindful of the special needs customer markets as they develop tools and informational resources to communicate how to use transportation services. Those who interface with seniors and persons with disabilities need to develop etiquette skills to effectively and appropriately communicate in a sensitive, non-offensive manner. LYNX recently conducted a Phase I situation assessment and sensitivity train the trainer program.

Project: Florida Motorcycle Observation Survey
Sponsor: National Highway Traffic Safety Administration
PI(s): Lee
Value: \$114,158

Description: Develop survey plan and submit to NHTSA contracting office within 4 weeks of award. Within 3 months of the award, collect data in 10-12 Florida counties, with a minimum sample size of 8,000. Within 18 weeks of the award, analyze the data and create a draft final report that mirrors the 2013 Florida observational survey report.

Project: MPO Regional Coordination Structure Research and Best Practices for the Tampa Bay Region
Sponsor: Stantec
PI(s): Kramer
Value: \$70,320

Description: To conduct research, as part of a team with Stantec and Quest, to perform research for the Tampa Bay Area Regional Transportation Authority (TBARTA) to define what successful regional coordination means for Tampa Bay, identify the barriers to its execution through available empirical evidence, and to develop several implementable scenarios based on an examination of nationwide best practices for regional transportation planning.

Total Value: \$1,667,936