



Center for Urban Transportation Research
Advisory Board Meeting
Agenda

July 30, 2014
1:30-3:00pm

Via LiveMeeting: Toll free: +1(866) 287-5645, pin#: 3500

Call to Order/Introductions

Approval of Minutes

- May 14, 2014 Meeting

Chair's Comments

- Voting on Vice Chair
- Robert Skinner retirement

Director's Report

- To be transmitted in written form prior to meeting
- FY 2014 CUTR Budget
- CUTR Transportation Achievement Awards Event

Board Member Updates

Old Business

New Business

Adjournment

2014:

July 30, 2014 (teleconference)

October 22, 2014 – meeting and awards event

CUTR Advisory Board Meeting

July 30, 2014

CUTR Directors Report (May-July 2014)

To keep the teleconference CUTR Advisory Board meeting short, I am submitting a written summary of the CUTR Directors report for your reading. If you have any specific questions, we can address those during the meeting on the 30th. The CUTR budget and the Transportation Achievement Awards Event will be discussed during the meeting.

New Projects

New projects for the second quarter totaled \$6,780,506 with one new client, Portland State University, which is part of our UTC program (\$100,000). We currently have 189 active on-going projects.

Final Reports

- Kristine M. Williams and Karen E. Seggerman, *Multimodal Transportation Best Practices and Model Element*, prepared for the Florida Department of Transportation, National Center for Transit Research, June 2014.
- CUTR and its subcontractors have completed research and report writing for *Commuting in America 2013*. The 16 reports and an Executive Summary, produced over the past 18 months, are being released via the American Association of State Highway and Transportation Officials (AASHTO) website: <http://traveltrends.transportation.org>
- Janet Davis and Lisa Staes prepared *Transit Safety Data Presentation and Analysis, 2008-2011*, for FTA, June 2014.
- Justin Begley, Victoria Perk, Lisa Staes prepared *Bus Safety Congress: A Report to Congress* for FTA, June 2014.
- Victoria Perk, Justin Begley, Jennifer Flynn, Lisa Staes, *State of Transit Bus Safety in the US*, prepared for FTA, June 2014.

Publications

- Janet Davis and Lisa Staes prepared *Transit Safety Data Presentation and Analysis, 2008-2011*, June 2014.
- Justin Begley, Victoria Perk, Lisa Staes prepared *Bus Safety Congress: A Report to Congress* for FTA, June 2014.

Kudos

- Dr. Steve Polzin was selected as a member of the TRB Committee for Study of Innovative Urban Mobility Services.

- Joel Volinski was elected to the position of Vice President of the Council of University Transportation Centers at CUTC's Annual Summer Meeting
- Lisa Staes was appointed to the Transportation Research Board (TRB) Public Transportation Safety and Security Task Force.
- Lucas Cruse, a research associate on the ITS Team has been appointed to the TRB Pedestrians Committee (ANF10) as a Young Member with a three year term starting April 2014. He is also now the official USF representative to the Hillsborough County MPO Bicycle and Pedestrian Advisory Committee (BPAC). Finally, he completed his certification as a Cycling Savvy Instructor, which is a program that teaches bicycle handling and traffic cycling skills.
- After undergoing intense training, many CUTRites recently became CUTR WalkWise Ambassadors!

University Transportation Centers Programs

- CUTR is initiating work with our new UTC partner "NITC" – a livability themed transportation research center out of Portland State University, that also includes the University of Utah and a few others in Oregon. Our first project under that center will address livability and freight in smart growth environments (case studies), and is being led by Kristine Williams. The NITC partnership also includes an education component, which we hope to use for seed grants to enable student-initiated service learning and community engagement projects in the City of Tampa and Hillsborough County aimed at overcoming barriers to walking, cycling and transit use in the area. In addition, we are gearing up to provide a series of training workshops on multimodal transportation planning best practices under funding from the FDOT Office of Policy Planning. The first one will be held in Tampa Bay at the end of October.
- The NCTR program is in the early stages of building an exhibit at MOSI and are hoping for some donations from different firms that can help pay for some of the elements of the exhibit. The intent is to familiarize students with public transit buses and the benefits of public transit. So far HART and the company that provides bus shelters for HART have responded positively, and the FPTA supports the project as well.

Events/Webinars/Conferences

- The first City of Temple Terrace Bike with the Mayor event was held on Friday, May 16th, which coincided with National Bike to Work Day, Mayor Frank Chillura and James Moulton, Director of Transportation Operations, FDOT led the group of around 70 cyclists for a ride on Temple Terrace's low speed bicycle friendly streets showcasing sharrows (shared-lane markings) and bike lanes. In partnership with the City of Temple Terrace, the event was organized and hosted by the CUTR TDM Team through Tampa BayCycle, a CUTR project funded by the Florida Department of Transportation District 7.
- Dr. Pei-Sung Lin, ITS Traffic Operations and Safety Program Director proudly represented USF at this year's 10th Asia Pacific Transportation Development Conference and 27th International Chinese Transportation Professional Association (ICTPA) where he served as President and Conference Chair for the Annual Conference in Beijing, China.
- June 5 - Tampa Bay Clean Cities Coalition held its spring meeting on *The Future of Natural Gas and Propane* at the Gator Ford dealership in Seffner, Florida. With over 70 stakeholders in

attendance, the meeting served as a networking event for public and private sector businesses, in addition to a business-to-business learning opportunity. (3210100601 - Tampa Bay Clean Cities Coalition).

- The FPTA/FDOT/CUTR Professional Development workshop and Transit Safety Summit was successfully held at the USF Embassy Suites on June 2 – 4, 2014

CUTR's participation:

Transit Safety Summit Pre-Event Workshop

Moderators: Victor Wiley, FDOT and Lisa Staes, CUTR

Safety Management Systems

Presenters: Lisa Staes and Roberta Yegidis

A Supervisor's Role in the FTA Drug and Alcohol Testing Program

Presenter: Diana Byrnes

Internal Agency Communications – Best Practices

Presenter: Roberta Yegidis

Implementation Aids for Drug and Alcohol Program Management

Presenter: Diana Byrnes

Becoming a Successful E-Learner: I've Signed Up – Now What?

Presenter: Stephanie Lewis

Maintenance Roundtable – New Technologies and Best Practices

Moderators: Robert Westbrook, FDOT and Edward Bart, CUTR

MPOs and Transit Planning

Moderator: Jeff Kramer

Public Transportation Business Development: Increasing Ridership and Revenue

Moderator: Rob Gregg

Believing Is Seeing

Presenter: Michael Audino

Data and Technologies that Enhance Customer Service

Moderator: Justin Begley

Presenters: Sean Barbeau and Mark Mistretta, CUTR; Walt Lenz, PSTA; Victor Garcia, SFRTA; and Shannon Haney, HART

From Baby Boomers to Millennials: Transit Marketing Across a Multi-Generational Customer Base

Presenters: Rob Gregg, Holly Carapella, and Mak Mistretta

Scheduling and Operations Planning

Presenters: Chris DeAnnuntis and William Morris, CUTR; and Jeannie Taylor, Palm Tran

- July 31 – Tampa Bay Clean Cities Coalition will present a webinar to Department of Energy representatives. This next step toward designation as a national Clean Cities coalition allows the TBCCC presentation team to talk directly with DOE HQ and the regional manager about the coalition, and explain how it will be successful in contributing to the goals of the Clean Cities program. The presentation team will consist of Dr. Kala Vairavamoorthy, Dean of Patel College of Global Sustainability; Ms. Margaret Rush, Hillsborough County Environmental Protection Commission; Mr. Keith Gruetzmacher, TECO Energy; and Mr. Stephen L. Reich, TBCCC Coordinator.

Patents

The following researchers worked on the patents: Sean Barbeau, Philip L. Winters, Rafael Perez, Miguel Labrador, and Nevine Georggi.

- U.S. Patent # 8,751,162 – System for Pattern Recognition in Real-time Location-based Services Applications - A prediction method that estimates the real-time position of a mobile device based on previously observed data is provided. The present invention can be used in real-time navigation, including providing real-time alerts of an upcoming destination and notifications of emergency events in close geographic proximity. The prediction method utilizes neural networks and/or functions generated using genetic algorithms in estimating the mobile device's real-time position. The prediction method provides reliable Location-Based Services (LBS) in events where traditional positioning technologies become unreliable. It is also seamless, as the user remains unaware of any interruption in accessing the positioning technology. Issued June 10, 2014, U.S. Patent and Trademark Office.
- U.S. Patent # 8,725,831 - Architecture and Two-Layered Protocol for Real-Time Location-Aware Applications - Defines an architecture and a two-layer communication protocol that provides timely location updates via an unreliable protocol, and also provides a subscription mechanism that allows a location-aware application on a mobile device to act not only on its own real-time location, but also on the real-time location of other mobile devices in the system. Issued May 13, 2014, U.S. Patent and Trademark Office.
- U.S. Patent # 8,718,671 – Adaptive Location Data Buffering for Location-Aware Applications – Supports the use of an unreliable protocol (e.g., UDP) to transmit location data from a mobile device to a server in real-time, while occasionally checking if a connection with the server exists using a reliable protocol (e.g., TCP). If a reliable connection fails, location data is buffered on the device until the next successful reliable connection. This allows energy and data-efficient communication of real-time tracking information, while still providing some measure of reliability. Issued May 6, 2014, U.S. Patent and Trademark Office.
- License of WiVia patent (U.S. Patent # 8,045,954 – Wireless Emergency-Reporting System) to EmergenSee – June 2014

Information Sharing

- Dr. Pei-Sung Lin was interviewed by Holly Sinn, WTSP Channel 10 News on “Road Warrior: The Traffic Test.”
- Joel Volinski presented *Bus Operator Assaults – State of the Industry and Florida’s Model Practice* on behalf of Lisa Staes at the Canadian Transportation Association’s Annual Summer meeting in Gatineau in Quebec, Canada
- Dr. Sean Barbeau was interviewed by BayNews 9 on the new patent: EmergenSee, use a smartphone to send live pictures or video to law enforcement in an emergency situation. This was sponsored by US Department of Transportation.
- Dr. Pei-Sung Lin was interviewed by WFTS-TV in regards to the changes drivers should notice as the \$200 million construction project continues on I-275 through Tampa.
- April 8 – Stephen Reich interviewed on WFLA 970 radio to discuss driverless cars. (21171522 - Tampa Bay: An Automated Vehicle Catalyst)
- June 27 – Stephen Reich presented *Connected Vehicle Application for Public Transportation* at FSITE/ITS Florida 2014 Summer Meeting in Clearwater. (21171522 - Tampa Bay: An Automated Vehicle Catalyst)
- Dr. Polzin provided a lecture on *Transit Ridership Data Management at the National Transit Institute*, July 8, 2014, Newark, New Jersey.
- Dr. Polzin delivered a presentation on “*Regional Planning and Modeling Implications of Driverless Cars*”, Automated Vehicle Symposium 2014, San Francisco. July 16, 2014.
- Results from a CUTR study for FDOT district 1, *Collection and Distribution of Transportation Funds in FDOT Districts* and *Collection and Distribution of Transportation Funds in FDOT District 1 Counties* are scheduled to be presented to Metropolitan planning organizations in Collier, Lee, Sarasota/Manatee, Charlotte, Polk in September and October.
- Brian Pessaro delivered a presentation on *The LYMMO BRT 15 Years Later* at the American Society of Civil Engineers T & DI Congress 2014, June 2014.

Training Courses Offered

5,434 per hours of training

Operations Statistics

CUTR Personnel Characteristics 2014

	14q1	14q2	14q3	14q4
# Employees	162	155		
Male	89	88		
Female	73	67		
African-American	14	9		
Asian	29	26		
Hispanic	11	14		
White	108	106		
# Regular Faculty	40	39		
# Visiting Faculty	0	0		
# Faculty Associates	14	14		
# Administrative (A&P)	11	10		
# Staff (USPS)	17	15		
# Grad Assistants	23	8		
# Student OPS	34	47		
# Non-Student OPS	37	36		
Faculty Departed	0	1		
Faculty Hired	0	0		
Administrative Departed	0	1		
Administrative Hired	0	0		
Staff Departed	0	2		
Staff Hired	0	0		
Grad Assistants Departed	1	15		
Grad Assistants Hired	4	0		
Student OPS Departed	0	8		
Student OPS Hired	9	21		
Non-Student OPS Departed	4	1		
Non-Student OPS Hired	0	0		



CUTR Advisory Board Meeting

Meeting Minutes

May 14, 2014

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

Attendees:

Advisory Board Members and Designees:

Kimberlee DeBosier, Chair, Bayside Engineering
Ed Coven, FDOT
Ann Fandozzi, vRide
S. Katherine Frasier, FTC (call in)
Senator James Hargrett, Jr.
Bob O'Malley, CSX (call in)
Matt Preston, Department of Economic Opportunity (DEO)
Chris Stahl, FDOT (call in)
Chris Wiglesworth, (DEO)
Thornton Williams, Williams Law Group, P.A.

Center for Urban Transportation Research, USF:

Dennis Hinebaugh
Martin Catala
Rob Gregg
Pei-Sung Lin
Steve Polzin
Stephen Reich
Karen Seggerman
Ken Short
Lisa Staes
Joel Volinski
Phil Winters

Chairman Kimberlee DeBosier called the meeting to order at 1:35 p.m. and welcomed attendees and guests.



Approval of Meeting Minutes

The minutes of the February 5, 2014 meeting minutes were approved with changes: on page 6 under Ed Coven’s report, change “matched” lanes to “managed” lanes. Chris Wigglesworth made a motion to accept the minutes with the changes and Thornton Williams seconded the motion. It was passed.

Chair’s Comments:

Kim DeBosier thanked Dennis Hinebaugh for stepping into the Interim Director’s position and also thanked all the staff too for making it a smooth transition.

Interim Director’s Report:

Dennis Hinebaugh thanked everyone in management and the administrative team for all their hard work in this transition period.

Hinebaugh reported on the College of Engineering Dean search – four candidates were interviewed for the position but the Provost announced that none of the candidates were selected for the position. The Search Committee will continue to meet and the position will remain open until filled. The Provost would like CUTR to move forward to form a search committee for the CUTR Director position. CUTR will start the process by re-writing the detailed position announcement, ads, and formation of a search committee.

Hinebaugh reported that the USF Faculty and Staff campaign was co-chaired by Ken Short. CUTR had a 97% participation rate. To celebrate the campaign, there was a rock star contest and Ken Short won the best dressed rock star; he took the Dean’s place.

CUTR Activity Summary:

Phil Winters reported that the TDM group had 1 new patent approved with a total of 11 patents.

The June 2-4 FPTA/FDOT/CUTR Transit Professional Development Workshop and Transit Safety Summit will be held at the Embassy Suites and Lisa Staes reported that so far 150 people have registered.

Steve Reich reported that The Motor Week 4 minute segment on CUTR’s motorcycle safety program and AGIL GIS lab began running last week on the PBS velocity channel.

Hinebaugh reported that in the last full quarter of January – March 2014, CUTR submitted 11 proposals with a value of \$1.4m and contracted for 30 new projects with a value of \$4.7m. The CUTR annual budget continues to grow and is in the \$13m range.

Joel Volinski and Steve Polzin gave the status of the University Transportation Center (UTC) programs for the National Center for Transit Research (NCTR) with Portland State University (Livable Communities), Rutgers University (State of Good Repair) and the University of Tennessee (Safety). Volinski also gave an overview of the new NCTR livability program which includes consortium members from: University of



South Florida (USF), North Dakota University (NDSU), University of Illinois (UIC), and Texas Transportation Institute (Texas A & M). Of note is that USF is now the only university to have been selected in all four competitions for Tier 1 designation since 2002. Ongoing and new activities of NCTR were mentioned with the Clearinghouses for GIS (Catala); Alternative Fuels (Reich); Transit Safety (Staes); TDM (Winters). NCTR program managers met with Darryl Dockstader and Ed Coven of FDOT to discuss new method of identifying matching projects. The NCTR Graduate Research Assistant program has started successfully with 2 new students and another 2 will be hired for next semester; it has been a great experience for both of them.

Steve Reich reported on the Automated Vehicle Institute, which has been actively engaged with the Tampa Hillsborough Expressway Authority (THEA). Reich and Hinebaugh will meet in regards to the relationship between automated vehicles and bus rapid transit.

Pei-Sung Lin reported on the new CUTR Freight Program which will focus on logistics and economic opportunities. Seckin Ozkul was recently hired as faculty for the freight program.

Steve Polzin and Ken Short reviewed the status of CUTR's budget. The student growth has outpaced both the staff and faculty. There was substantial growth in administrative activities (80%), while maintaining a level administrative staff, which is a good case for sustainable funding since we are doing more with less. The research grant activity shows strong growth. Polzin reported that a new business model is needed because without change, CUTR could exhaust reserves by the end of FY 15. Ann Fandozzi offered to help with the business model.

Board Member Updates:

Chris Wiglesworth reported on news from the Florida Department of Economic Opportunity.

Thornton Williams reported on multiple bills that came before Governor Scott.

Bob O'Malley reported that the Winter Haven intermodal terminal opened on April 2nd and it is going well.

Ed Coven reported that the legislature ended and the Secretary was pleased the entire package passed this year with a \$9.4b budget. SunRail opened on May 1st with free rides for the commuters; it has been a very successful opening. Commuters will be charged starting May 19th. Phase II (17 miles) was approved; work to start in July with an expected opening by 2016.

No other updates from board members.



New Business

CUTR Transportation Achievement Award Event

Chair DeBosier stated that many candidates were considered for the CUTR Transportation Achievement Award. The committee presented a recommendation of Jim Sebesta, member of the Florida Transportation Commission and former State Senator. Thornton Williams made a motion to accept the recommendation of Jim Sebesta as the awardee for this year's CUTR Transportation Achievement and Ann Fandozzi seconded it. The Advisory Board unanimously approved the selection. Dennis Hinebaugh will contact him.

Vice Chair

The Vice Chair position has been vacant since John Forney stepped down. Please let Kim DeBosier know if you are interested in filling the position.

Presentations

Karen Seggerman, CUTR research associate and graduate students: Casey Jarrell, Danny Shopf, and Nikhil Menon presented, *Engaging Transportation Students in Florida's Future Corridors Initiative*.

Steve Polzin, CUTR Program Manager, presented *Millennial Travel Behavior*.

Sean Barbeau, CUTR research associate, presented *Google Glass*

Next Steps and Meeting Schedule

Next Advisory Board, which is a teleconference, has been moved from August 6th to July 30th due to scheduling conflicts.

Adjournment - The meeting was adjourned at 4:30 p.m.