

ACCELERATED BRIDGE CONSTRUCTION



RESILIENT INFRASTRUCTURE

2023 CUTC SUMMER MEETING JUNE 20-23, 2023 | MIAMI, FLORIDA AT FLORIDA INTERNATIONAL UNIVERSITY RESILIENT INFRASTRUCTURE

2023 CUTC SUMMER MEETING

JUNE 20-23, 2023 MIAMI, FLORIDA





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WELCOME TO MIAMI FLORIDA

Welcome! On behalf of Florida International University (FIU) and Accelerated Bridge Construction University Transportation Center (ABC-UTC), I welcome you to the 2023 CUTC Summer Meeting! I hope that you enjoy your time here in Miami, Florida. Here you will see first-hand some of the challenges facing coastal cities, including the expansion of communities into areas more vulnerable to natural hazards, the surge in severity and frequency of extraordinary events pronounced by the effects of the climate change, and the impact of a high concentration of tourists/visitors on limited infrastructure.

Transportation networks have a critical role to play within general infrastructure. Design of new roads and bridges, and maintenance, preservation, and upgrade of the existing transportation network to withstand against adverse effects and continue the access to vulnerable communities present itself as an important mission for professional communities and transportation centers. Southern Florida is "ground zero" in terms of vulnerability of the transportation network to extraordinary events like hurricanes. Climate change and related phenomena are also starting to take a toll on this already vulnerable region.

I hope that you enjoy yourself during the conference and learn how UTCs are impacting our nation as we work to improve the transportation industry/sector. If there is anything I can do to improve your experience during the meeting, don't hesitate to ask. Thank you for coming to Miami, Florida and have a great time!



ATOROD AZIZINAMINI, PHD, P.E.

Director, Accelerated Bridge Construction-University Transportation Center (ABC-UTC) Director, Infrastructure Research and Innovation, Office of Research & Economic Development, Florida International University

ABOUT THE HOST:

Accelerated Bridge Construction-University Transportation Center (ABC-UTC)

The mission of the ABC-UTC is to reduce the societal costs of bridge construction by reducing the duration of work zones, focusing special attention on preservation, service life, construction costs, education of the profession, safety and development of a next-generation workforce fully equipped with ABC knowledge.

>> abc-utc.fiu.edu

GENERAL INFORMATION

PRIMARY HOTEL AND TRANSPORTATION

Hilton Garden Inn Miami Dolphin Mall is the primary conference hotel:

1695 NW 111th Ave Suite A, Sweetwater, FL 33172 (305)500-9077

Transportation will be provided by Miami Motorcoach Corp. from Hilton Garden Inn Miami Dolphin Mall to the meeting venue, which is Florida International University, Modesto Maidique Campus located at 11200 SW 8th Street, Miami FL 33199. Transportation will be provided to all other destinations listed in the meeting program. Shuttles back and forth to the hotel and meeting venue will occur at the beginning and end of the days' program only.





REGISTRATION

Tuesday, June 20th

Noon – 4:30 p.m. at Hilton Garden Inn Miami Dolphin Mall 5:30 – 7:00 p.m. at Patricia & Phillip Frost Art Museum at FIU

Wednesday, June 21st

7:30 a.m. – 2:30 p.m. at Graham Center's Ballroom Lobby at FIU

CONFERENCE VENUE

Florida International University, Modesto Maidique Campus, Graham Center Ballrooms

Welcome to Florida International University, Miami's public research university. For over four decades, FIU has positioned itself as one of South Florida's anchor institutions by solving some of the greatest challenges of our time. We are dedicated to enriching the lives of the local and global community.

We at FIU have been at the forefront of activities to understand the effects of climate change and to devise means for mitigation. We experience these effects directly and have much at stake if threats to infrastructure are not addressed properly. FIU houses the National Hurricane Center (NHS) with a mission to save lives, mitigate property losses, and support the resiliency of our community against storms by forecasting, warning, understanding and education on these extraordinary events. FIU's Wall of Wind (WOW) facility with the capability of generating hurricane level wind, is dedicated to research on the effects of hurricanes and means of mitigation. The ABC-UTC and the Lehman Center of Transportation (LCTR) in the College of Engineering and Computing of FIU are also geared toward resilience of coastal communities and improving transportation through innovative approaches.

The 2023 CUTC Summer Meeting will take place in the Ernest R. Graham Center Ballrooms located in the heart of the Modesto Maidique Campus.

GENERAL INFORMATION



PARKING

The primary hotel venue has complimentary on-site parking. Complimentary parking is also available at the meeting venue for participants that register their vehicle with our staff at the registration counter. To do so, upon arrival, please have a copy of the license plate number, along with the color, make, and model of your vehicle. After registering, you will be authorized to park anywhere EXCEPT in spaces designated as Executive / Administrative and self paid metered parking.



NAME BADGES

Participants will be provided a name badge at the registration counter. Your name badge is required for access to all CUTC Summer Meeting events, meals, reception and tours.



WI-FI ACCESS

The hotel venue will provide complimentary Wi-Fi access to all participants staying there. Free internet access is available throughout the FIU campus when logging in as a guest and accepting the terms of use. The guest network at the FIU campus is labeled: FIU_WiFi.



LUNCH VENUE : 8TH STREET CAMPUS KITCHEN

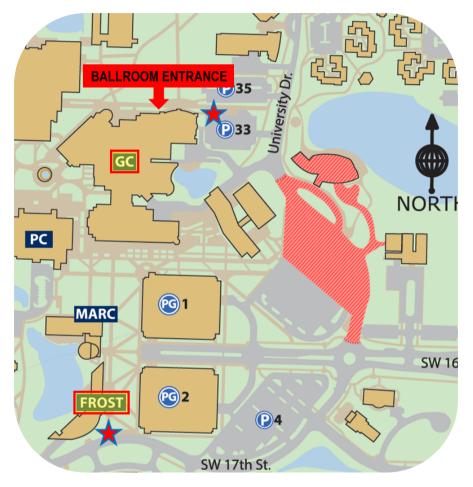
Participants will be provided an all-you-care-to-eat lunch pass to the The 8th Street Campus Kitchen which is a restaurant with an open-kitchen platform that showcases the craftsmanship of experienced chefs as they expertly prepare and serve fresh, healthy dishes. The 8th Street Campus Kitchen is a cultural hot spot located in the heart of the FIU Graham Center. A space where students, faculty, administration and visitors alike can meet, dine and mingle in a welcoming environment.



GENERAL INFORMATION

MEETING VENUE MAP

Florida International University, Modesto Maidique Campus 11200 S.W. 8th Street, Miami, Florida 33199



MEETING SPACE

June 20th - Reception & RETRC

FROST: Patricia & Phillip Frost Art Museum, CUTC Executive Meeting & Welcome Reception Hilton Garden Inn Miami Dolphin Mall: RETRC Meeting (Off Campus)

June 21st – U.S. DOT Sessions GC: Graham Center, All Sessions

June 22nd - CUTC & Host Sessions GC: Graham Center, All Sessions

PARKING & TRANSPORTATION RED STARS

Shuttle Pick-Up & Drop-Off Shuttles back and forth to the hotel and meeting venue will occur at the beginning and end of the days' program only. Please refer to shuttle schedule.

PG1 and PG2: Parking Garages for registered vehicles – Blue Staff Parking Spaces or White Blank Spaces

P33 and P35: Self Paid Metered Parking

PROGRAM AT A GLANCE

tuesday June 20

Noon–4:30 p.m. Registration *Hilton Garden Inn Dolphin Mall, Main Lobby*

5:30 - 7 p.m. Registration Continued FIU MMC Patricia & Phillip Frost Art Museum (FROST)

1:45 – 3:45 p.m.*** Technical Tour: NHERI Wall of Wind Experimental Facility *FIU Engineering Campus*

5–7 p.m.*** CUTC Executive Committee Meeting FIU MMC Patricia & Phillip Frost Art Museum (FROST), 3rd Floor, Room 306

7–8:30 p.m.*** Welcome Reception FIU MMC Patricia & Phillip Frost Art Museum (FROST)

9–10 p.m. RETRC Meeting *Hilton Garden Flamingo Ballroom* wednesday June 21

7:30 a.m.–2:30 p.m. Registration *FIU MMC GC Middle Ballroom*

7:30–8:30 a.m.*** Breakfast and Networking *FIU MMC GC West Ballroom*

8:30–9 a.m. US DOT Welcome FIU MMC GC Middle Ballroom

9–10:50 a.m. US DOT Director's Meeting -Session 1 FIU MMC GC Middle Ballroom

10:50–11:05 a.m. Networking Break *FIU MMC GC Ballroom Lobby*

11:05–11:45 a.m. US DOT Director's Meeting -Session 2 FIU MMC GC Middle Ballroom

11:45 a.m.–1 p.m. Networking Lunch 8th Street Campus Kitchen, Graham Center

1–2:30 p.m. CUTC Summer Business Meeting FIU MMC GC Middle Ballroom

2:30–2:40 p.m. Networking Break *FIU MMC GC Ballroom Lobby*

2:40–3:45 p.m. US DOT: Grant Glose-Outs 101 FIU MMC GC Middle Ballroom

5–9 p.m.*** Banquet & Bridge Tours Bayside Bayfront Park & Market Place, Downtown, Miami, FL

Footnote 1: Please use these times for planning purposes, exact times are subject to change once the agenda is finalized. ***All meetings require a short 15-minute chartered bus ride, parking instructions will be provided for those driving themselves. Shuttles back and forth to the hotel and meeting venue will occur at the beginning and end of the days' program only. The Wednesday night tour and dinner will require a 1-hr chartered bus ride to downtown Miami.

THURSDAY June 22

7:30–8:30 a.m.*** Breakfast and Networking *FIU MMC GC West Ballroom*

8:30–10:30 a.m. Host Session 1 FIU MMC GC Middle Ballroom

10:30–10:45 a.m. Networking Break *FIU MMC GC Ballroom Lobby*

10:45–11:30 a.m. US DOT: New Grant Start-Ups 101 *FIU MMC GC Middle Ballroom*

11:30 a.m.–1:00 p.m. Host Session 2 FIU MMC GC Middle Ballroom

1–2:30 p.m. Networking Lunch 8th Street Campus Kitchen, Graham Center

2:30–4:30 p.m. US DOT: New Grant Start-Ups 201 *FIU MMC GC Middle Ballroom*

SHUTTLE SCHEDULE

Tuesday, June 20, 2023							
Load	Depart	Pick-Up Location	Destination	In Transit	Arrival		
1:00 p.m.	1:15 p.m.	Hilton Garden Inn Main Entrance	NHERI Wall of Wind at FIU Tour	10 mins	1:30 p.m.		
3:45 p.m.	4:00 p.m.	NHERI Wall of Wind at FIU Tour	Hilton Garden Inn Main Entrance	10 mins	4:15 p.m.		
4:15 p.m.	4:30 p.m.	Hilton Garden Inn Main Entrance	CUTC Executive Committee Meeting	15 mins	4:45 p.m.		
6:15 p.m.	6:30 p.m.	Hilton Garden Inn Main Entrance	FIU Patricia & Phillip Frost Art Museum	15 mins	6:45 p.m.		
8:30 p.m.	8:45 p.m.	FIU Patricia & Phillip Frost Art Museum	Hilton Garden Inn Main Entrance	15 mins	9:00 p.m.		
Vednesday, 7:00 a.m.	June 21, 202 7:15 a.m.	23 Hilton Garden Inn Main Entrance	FIU Graham Center	15 mins	7:30 a.m		
Wednesday,	June 21, 202	23		1			
4:00 p.m.	4:15 p.m.	FIU Graham Center	Hilton Garden Inn Main Entrance	15 mins	4:30 p.m.		
4:00 p.m.	4:15 p.m.	FIU Graham Center	Bayside Bayfront Park & Market Place, Downtown Miami	45 mins	5:00 p.m.		
9:15 p.m.	9:30 p.m.	Bayside Bayfront Park & Market Place, Downtown Miami	Hilton Garden Inn Main Entrance	60 mins	10:30 p.m		
Thursday, Ju	une 22, 2023						
7:00 a.m.	7:15 a.m.	Hilton Garden Inn Main Entrance	FIU Graham Center	15 mins	7:30 a.m.		
4:45 p.m.	5:00 p.m.	FIU Graham Center	Hilton Garden Inn Main Entrance	15 mins	5:15 p.m.		



TUESDAY, JUNE 20, 2023

REGISTRATION

Noon – 4:30 p.m. at the Host Hotel 5:30 – 7:00 p.m. at the Patricia & Phillip Frost Art Museum at FIU

> 1 PM (Departs at 1:15PM) Miami Motorcoach bus departs from the Hilton Garden Inn Main Entrance to NHERI Wall of Wind at FIU (Arrives at 1:30PM)

NHERI WALL OF WIND EXPERIMENTAL FACILITY TOUR

1:45 – 3:45 p.m. at FIU Engineering Campus

10555 W Flagler St, Miami, FL 33174

In this guided tour, the participants will take part in a WOW Presentation and a tour of the WOW facilty.

The NHERI Wall of Wind (WOW) Experimental Facility (EF) at Florida International University (FIU) was funded by NSF to be a national facility that enables researchers to better understand wind effects on civil infrastructure systems and to prevent wind hazards from becoming community disasters. The NHERI WOW EF is powered by a combined 12-fan system capable of repeatable testing in up to 157 mph speeds through its flow wind management system.



The unique advantage of the NHERI WOW EF is multi-scale (full-scale to 1:400) and high Reynolds number simulation of the effects of wind and wind-driven rain.

3:45 PM (Departs at 4:00 PM)

Miami Motorcoach bus departs from the NHERI Wall of Wind at FIU to the Hilton Garden Inn Main Entrance (Arrives at 4:15PM)

4:15 PM (Departs at 4:30 PM)

Miami Motorcoach bus departs from the Hilton Garden Inn Main Entrance to the FIU Patricia & Phillip Frost Art Museum (Arrives at 4:45PM)

CUTC EXECUTIVE MEETING & DINNER

5:00 – 7:00 p.m. at FIU Patricia & Phillip Frost Art Museum, Third Floor, Room 306 10975 SW 17th Street, Miami, FL 33199

TUESDAY, JUNE 20, 2023 Contd.

6:15 PM (Departs at 6:30 PM) Miami Motorcoach bus departs from the Hilton Garden Inn Main Entrance to the FIU Patricia & Phillip Frost Art Museum (Arrives at 6:45PM)

WELCOME RECEPTION

7:00 - 8:30 p.m. at FIU MMC The Patricia & Phillip Frost Art Museum 10975 SW 17th Street, Miami, FL 33199

Join us for hors d'oeuvres and beverages at the Welcome Reception for a chance to network and socialize with fellow CUTC members and others. Take in the Patricia & Phillip Frost Art Museum's soaring gallery spaces, magnificent Atrium, and airy Terrace. Self guided tours available throughout the evening. Download the FIU FROST ART app for audio tours.



The Patricia & Phillip Frost Art Museum traces its roots back to 1977 when it was first established as The Art Museum at Florida International University. The museum's early years focused on showcasing contemporary Latin American and Caribbean art, reflecting the diverse and vibrant community in South Florida.

The Frost Art Museum's permanent collection includes over 6,000 objects with a strong representation of American printmaking from the 1960s and 1970s, photography, pre-Columbian objects dating from 200-500 AD, and a growing number of works by contemporary artists, especially from Latin American and Caribbean countries.

8:30 PM (Departs at 8:45 PM)

Miami Motorcoach bus departs from the FIU Patricia & Phillip Frost Art Museum to the Hilton Garden Inn Main Entrance (Arrives at 9:00PM)

RETRC MEETING

9:00 – 10:00 p.m. at Hilton Garden Inn Miami Dolphin Mall, Flamingo Ballroom 1695 NW 111th Ave Suite A, Sweetwater, FL 33172

In addition to RETRC members, this meeting is open to others who are interested in learning about this organization.

WEDNESDAY, JUNE 21, 2023

7 AM (Departs at 7:15AM) Miami Motorcoach bus departs from the Hilton Garden Inn Main Entrance to the FIU Graham Center (Arrives at 7:30AM)

REGISTRATION

7:30 – 2:30 p.m. Graham Center's Ballroom Lobby

BREAKFAST & NETWORKING

7:30 – 8:30 a.m. Graham Center's West Ballroom

US DOT WELCOME

8:30 – 9:00 a.m. Graham Center's Middle Ballroom Caesar Singh - Introduction & Remarks Director, University Grants Program, OST-R, US DOT Firas Ibrahim - Welcome Remarks Director, Office of Research Development & Technology, OST-R, US DOT

US DOT DIRECTOR'S MEETING

9:00 – 10:50 a.m. FIU MMC Graham Center's Middle Ballroom Ben Levine - SMART Program Senior Advisor, OST-R, US DOT Pat Hu - Data Science Director, Bureau of Transportation Statistics, US DOT Alasdair Cain - Transformation Action Plan (Interactive Session) Director, Research Development & Technology Coordination, US DOT

Coffee Break from 10:50 - 11:05 a.m. at Graham's Center's East Ballroom

US DOT DIRECTOR'S MEETING

11:05 – 11:45 a.m.
FIU MMC Graham Center's Middle Ballroom Lisa Kay Schweyer & Stan Caldwell -UTC Conference Planning Best Practices Carnegie Mellon University, National University Transportation Center for Improving Mobility Charles Ducker (virtual) - Bayh-Dole Act & iEdison Requirement Attorney-Advisor, Office of General Counsel, US DOT Leighton Christiansen (virtual) - Data Management Data Curator, Office of Information & Library Sciences, US DOT



WEDNESDAY, JUNE 21, 2023 Contd.

LUNCH & NETWORKING

11:45 – 1:00 p.m. at 8th Street Campus Kitchen, Graham Center

CUTC SUMMER BUSINESS MEETING

1:00 - 2:30 p.m.

Graham Center's Middle Ballroom

Coffee Break from 2:30PM - 2:40PM at Graham's Center's East Ballroom

CUTC TRANSPORTATION RESEARCH CENTERS OPERATIONS AND MANAGEMENT PROFESSIONALS EXCHANGE - SESSION 1 2:40 - 3:45 p.m.

Graham Center's Middle Ballroom

Grants Close-Outs 101 - The Transportation Research Centers Operations and Management Professionals Exchange members invite you to learn from the US DOT Grants Managers and fellow UTC administrative professionals about closing out existing grants. Talking points are expected to include no-cost extensions, finalizing research projects, the last semi-annual progress report, students of the year, other funding opportunities, and more.

4:00 PM (Departs at 4:15 PM)

Option 1. Miami Motorcoach bus departs from the FIU Graham Center to the Hilton Garden Inn Main Entrance (Arrives at 4:30 PM)

Option 2. Miami Motorcoach bus departs from the FIU Graham Center to Bayside Bayfront Park and Market Place, Downtown Miami, Florida (Arrives at 5 PM)

BRIDGES OF BAYSIDE TOUR (SUBJECT TO WEATHER CONDITIONS) AND BANQUET DINNER

5:00 - 7:00 p.m. Dinner at La Canita Restaurant, Bayside Marketplace 401 Biscayne Blvd, 2nd Floor Miami, FL 33132

7:30 - 9:00 p.m.Bridges of Bayside Tour401 Biscayne Blvd.Miami, FL 33132



9:15 PM (Departs at 9:30PM)

Miami Motorcoach bus departs from Bayside Bayfront Park and Market Place to Hilton Garden Inn Main Entrance (Arrives at 10:30 PM)

THURSDAY, JUNE 22, 2023

7 AM (Departs at 7:15PM) Miami Motorcoach bus departs from the Hilton Garden Inn Main Entrance to the FIU Graham Center (Arrives at 7:30AM)

BREAKFAST

7:30 – 8:30 a.m. Graham Center's West Ballroom

TECHNICAL SESSIONS

8:30 – 10:30 a.m. Graham Center's Middle Ballroom



Todd Crowl - **Environmental Resiliency** Director, Institute of Environment, Center for Aquatic Chemistry and Environment, Florida International University

Richard Olson - Hazards, Disasters, and Convergence Research Director of Extreme Events Research, Office of the Vice President for Research, Florida International University

Leonel Lagos - Workforce Development Programs with the Department of Defense Executive Director, Applied Research Center, Florida International University

Shahid Hamid - Insurance Companies' Perspective on Resilience Director of the Laboratory for Insurance, Financial & Economic Research, International Hurricane Research Center, Florida International University

Coffee Break from 10:30 - 10:45 a.m. at Graham's Center's Ballroom Lobby

US DOT SESSIONS

10:45 - 11:30 a.m. Graham Center's Middle Ballroom

New Grant Start-Ups 101 - The US DOT Grants Managers invite you to learn about starting up new grants. Talking points are expected to include managing grant close-outs while starting up new grants, reviewing grant deliverables, data management plans, webinars, other US DOT data requests, and more.

THURSDAY, JUNE 22, 2023 Contd.

TECHNICAL SESSIONS CONTINUED

11:30 a.m. – 1:00 p.m. Graham Center's Middle Ballroom

> Atorod Azizinamini - **Resilient Infrastructure** Director, Accelerated Bridge Construction - University Transportation Center, Florida International University

Carlos Duart - Overview of Emergency Management System in the State of Florida Founder & CEO, CDR Enterprises Inc.

LUNCH

1:00 - 2:30 p.m. at 8th Street Campus Kitchen, Graham Center

CUTC TRANSPORTATION RESEARCH CENTERS OPERATIONS AND MANAGEMENT PROFESSIONALS EXCHANGE - SESSION 2

2:00 - 4:30 p.m.

Graham Center's Middle Ballroom

New Grant Start-Ups 201 - The Transportation Research Centers Operations and Management Professionals Exchange members invite you to learn from the US DOT Grants Managers and fellow UTC administrative professionals about starting up new grants. Talking points are expected to include data management plans and reporting, and more. Attendees will also have the opportunity to participate in smaller roundtable/Q&A discussions to share lessons learned and best practices as well as ask questions of fellow grantees.

> 4:45 PM (Departs at 5 PM) Miami Motorcoach bus departs from the FIU Graham Center to Hilton Garden Main Entrance (Arrives at 5:15 PM)



SPEAKERS & MODERATORS





ATOROD AZIZINAMINI

Director, Accelerated Bridge Construction – University Transportation Center Director, Infrastructure Research and Innovation, ORED, Florida International University

STAN CALDWELL

Executive Director, Traffic21 Institute, and Mobility21, a U.S. Department of Transportation National University Transportation Center for Mobility





ALASDAIR CAIN Director of Research.

Director of Research, Development and Technology Coordination at U.S. Department of Transportation

LEIGHTON CHRISTIANSEN

Data Curator, U.S. Department of Transportation's National Transportation Library



TODD CROWL

Director, Institute of Environment at Florida International University Director, CREST Center for Aquatic Chemistry and Environment



CARLOS A. DUART

Founder and CEO, CDR Enterprises Inc., CDR Health Care Inc., CDR Maguire Inc. and CDR Financial Services, Inc.



CHARLES R. DUCKER JR

Senior Intellectual Property Attorney, Office of General Counsel, U.S. Department of Transportation



SHAHID HAMID

Director of the Laboratory for Insurance, Financial and Economic Research, International Hurricane Research Center, Florida International University



PATRICIA S. HU Director of the U.S. Department of Transportation's Bureau of Transportation Statistics



FIRAS SHEIKH IBRAHIM

Director, U.S. Department of Tranportation's Office of Research, Development, and Technology.



SPEAKERS & MODERATORS



LEONEL LAGOS

Director of Research, Applied Research Center (ARC) at Florida International University



BEN LEVINE

Senior Advisor, Office of the Assistant Secretary for Research & Technology



RICHARD OLSON Director of Extreme Events Research, Office of the Vice President for Research, Florida International University



LISA KAY SCHWEYER

Program Manager, Traffic21 Institute and Mobility21 University Transportation Center at Carnegie Mellon University



CAESAR SINGH

Director, University Transportation Centers Grants Program, U.S. Department of Transportation



DENISE DUNN

Project Manager for the U.S. Department of Transportation's University Transportation Centers Program



ROBIN KLINE Grants Specialist for the U.S. Department of Transportation's University Transportation Centers Program





Transportation's University Transportation Centers Program



PATRICK SZARY Outgoing President CUTC, Associate Director of the Center for Advanced Infrastructure & Transportation (CAIT) at Rutgers University



P.S. SRIRAJ

President-Elect CUTC, Director of the Urban Transportation Center at the University of Illinois at Chicago

CUTC SUMMER MEETING 2024





RESILIENT INFRASTRUCTURE

2023 CUTC SUMMER MEETING

JUNE 20-23, 2023 MIAMI, FLORIDA



