



FACERS

Florida Association of
County Engineers
& Road Superintendents



2018 FACERS FALL MEETING

November 28 - 30, 2018
Tampa Marriott Waterside
Hillsborough County

2018 FALL MEETING SCHEDULE

WEDNESDAY, NOVEMBER 28

9:00 AM - 9:45 AM	Powell Creek Preserve: How to Get More from Your Land Andrew D. Tilton, P.E., Director of Water Resources, Johnson Engineering, Inc.
9:45 AM - 10:30 AM	Re-Alignment of US 17 in Zolfo Springs with Concrete Pavements Nikesh Patel, P.E., District 1 Heartlands Operations Engineer, FDOT Christopher R. Hiehle, Sr., EI, District 1 Heartlands Operations Contracts Manager, FDOT
10:30 AM – 10:45 AM	Break sponsored by Ergon Asphalts & Emulsions, Inc.
10:45 AM – 11:30 AM	Service Life of Flexible Pipe vs. Rigid Pipe Cate Thompson, EI, Florida Regional Engineer, Advanced Drainage Systems, Inc.
11:30 PM – 1:15 PM	LUNCH
1:15 PM – 1:30 PM	Gas Tax Indexing Update Susan Harbin Alford, Esq., Deputy Director of Public Policy, FAC
1:30 PM - 2:15 PM	High Polymer Micro Surface - Is More Better? Todd Buckles, Technical Marketing Manager, Ergon Asphalts & Emulsions, Inc. Troy McCain, Pavement Management Coordinator, City of Lakeland
2:15 PM – 3:00 PM	Smart Communities: Leveraging Technology to Increase LOS, Reduce Cost & Improve Operations Terry Shaw, P.E., Associate Vice President, HNTB
3:00 PM – 3:15 PM	Break sponsored by Ergon Asphalts & Emulsions, Inc.
3:15 PM – 4:00 PM	Conventional Repair Techniques for Concrete Bridges Jorge L. Perez, P.E., Senior Project Manager, Kimley-Horn & Associates
4:00 PM – 4:45 PM	Regional Transportation Initiatives Addie Javed, P.E., Director of Public Works, Pinellas County Ken Jacobs, Director of Transportation, Pinellas County

THURSDAY, NOVEMBER 29

- 9:00 AM - 9:45 AM **Shoulder Repair in Hernando County**
Fred LaPiana, Assistant Director of Public Works, Hernando County
- 9:45 AM - 10:30 AM **Expanding Artificial Reefs within Hernando County**
Both Offshore and Nearshore Habitats
Keith Kolasa, Aquatic Services and Waterways Manager, Hernando County
- 10:30 AM – 10:45 AM **Break**
sponsored by Asphalt Contractors Association of Florida
- 10:45 AM – 11:45 AM **FHWA Update, NACE Update, Legislative Update, EDC Innovation for Locals**
Nick Finch, Associate Divisions Administrator, FHWA
Scott Herring, P.E., Director of Public Works/County Engineer, Hernando County
John Goodknight, Executive Liaison, FACERS
Ramon D. Gavarrete, P.E., Public Works Director, Alachua County
- 11:45 AM – 1:30 PM **LUNCH**
- 1:30 PM – 2:00 PM **Awards Ceremony**
- 2:00 PM - 2:45 PM **FDOT District 7 Issues**
David Gwynn, P.E., District 7 Secretary, FDOT
- 2:45 PM – 3:00 PM **Break**
sponsored by Asphalt Contractors Association of Florida
- 3:00 PM – 3:45 PM **The 7 Habits of Highly Dysfunctional Leaders**
Habit 5: Passive Aggressive Behavior
Elia Twigg, P.E., Local Agency Manager, Target Engineering Group
- 3:45 PM – 4:30 PM **FACERS Roundtable**
- 6:00 PM – 9:00 PM **FACERS Social**
Bizou, 601 N. Florida Ave., Tampa, FL 33602

FRIDAY, NOVEMBER 30

- 9:00 AM - 12:00 PM **FACERS Board of Directors Meeting**

THANK YOU TO OUR
2018 FALL MEETING SPONSORS

GOLD

ASPHALT



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**Ergon Asphalt
& Emulsions, Inc.**
a company that works™

SILVER



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SILVER *(continued)*



BRONZE



Connelly & Wicker Inc.



Powell Creek Preserve

How to Get More from Your Land

Wednesday, November 28

9:00 - 9:45 a.m.

Powell Creek Preserve is a project that Lee County constructed to reduce nutrient loading to the Caloosahatchee, which has a TMDL for total nitrogen. The property was acquired through the County's Conservation 2020 program. In addition to the nutrient reduction of the three stage filter marsh, the perimeter berms are used as a passive recreation feature for walkers, joggers, and wildlife observers.



Presenter

Andrew D. Tilton, P.E.

Director of Water Resources
Johnson Engineering, Inc.

Andy is the Director of the Water Resources market group. He has been with Johnson Engineering since 1978 and is a shareholder of the company.

Andy provides quality control on the projects under design and permitting such as Ford Street Filter Marsh and Northern Everglades Potential Environmental Storage (NE_PES) projects. Andy is District Engineer for independent special districts and also assists with the engineering for several Community Development Districts in Lee and Collier Counties. Andy has served as the senior engineer for surface water on many of the firm's roadway projects for Hendry County, Lee County Department of Transportation, City of Cape Coral, City of Fort Myers, Collier County and the Florida Department of Transportation. He provides direction for monitoring, permitting, design and construction related issues.

PRESENTATION #2

Re-Alignment of US 17 in Zolfo Spings with Concrete Pavements

Wednesday, November 28

9:45 a.m. - 10:30 a.m.

The presentation is about the US 17 project in Zolfo Springs specifically the realignment of a one mile segment of US 17 by constructing a concrete roadway with curb and gutter. Additionally, the presentation will delve into the process and the overall outcome of the project.



Presenter

Nikesh "Nik" Patel, P.E.

Heartland Operations Engineer

Florida Department of Transportation (FDOT)

Nik joined the Department in 2003 as an OPS employee for District One and Seven Materials Office while completing his Master's degree in Engineering Management from University of South Florida in 2007.

Nik later worked at Sarasota Operations while completing the Professional Engineer Trainee Program and most recently worked at District One Construction Office serving as the Interstate Resident Engineer. During the that time, Nik worked on award winning projects such as I-75 Southwest Florida International Airport, I-75 Design-Build Finance Caloosahatchee Bridges and I-75 at University Parkway Diverging Diamond Interchange projects. Nik earned the designation of Certified Public Manager in August 2016. Since March 2018, Nik now serves as the Heartland Operations Engineer overseeing the construction and maintenance of six counties in the Heartland areas of Florida within District One.

In his spare time, Nik enjoys spending time with his wife, Kinsey, and their three dogs, Max, Saber and Heidi. Nik enjoys traveling, going to the beach, working on home projects and spending time with family and friends.



Presenter

Christopher R. Hiehle, Sr., EI

Heartland Operations Contracts Manager
Florida Department of Transportation (FDOT)

Chris Joined the Department in 2015 as the Contracts Manager in Heartland Operations. Chris received his Bachelor's degree from Tennessee Technological University in 2013, followed by a short stint with the Tennessee Department of Transportation.

In his spare time, Chris enjoys outdoor recreational activities and spending time with his wife, Christine.

PRESENTATION #3

Service Life of Flexible Pipe vs. Rigid Pipe

Wednesday, November 28

10:45 a.m. - 11:30 a.m.



Presenter

Cate Thompson, EI

Florida Regional Engineer
Advanced Drainage Systems, Inc.

PRESENTATION #4

Gas Tax Indexing Update

Wednesday, November 28

1:15 p.m. - 1:30 p.m.

During the session, get to know FAC Deputy Director of Public Policy, Susan Harbin Alford, as she provides an update about the gas tax indexing as well as insights into transportation issues expected to be considering during the 2019 Legislative Session.



Presenter

Susan Harbin Alford, Esq.

Deputy Director

Florida Association of Counties (FAC)

A member of the Florida Bar, Mrs. Harbin Alford joined the Florida Association of Counties in 2012, and currently serves as the Deputy Director of Public Policy, focusing primarily on local government issues related to agriculture, environment, growth management, and transportation.

She has also served as the Association's lead on issues related to health care and human services.

Prior to joining the Association, Mrs. Harbin Alford served as Legislative Counsel for the Broward County Office of Intergovernmental Affairs and Professional Standards. She is a 2009 graduate from the Florida State University College of Law, and has a degree in Environmental Economics and Management from the University of Georgia.

PRESENTATION #5

High Polymer Micro Surface - Is More Better?

Wednesday, November 28

1:30 p.m. - 2:15 p.m.

Polymers are a key ingredient in today's paving operations. They yield a highly durable asphalt that is recognized by FHWA, NCAT, FDOT, and most other specifying authorities. This presentation will help to answer your counties question - "Is more polymer better?" Know the rest of the story.



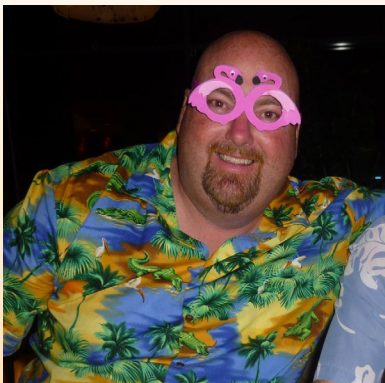
Presenter

Troy McCain

Pavement Management Coordinator
City of Lakeland

Troy McCain has worked for the City of Lakeland for 30 years. In that time, he has spent time in the survey department, GIS department, and has been the Pavement Management Coordinator in the Public Works Department for the past 11 years.

As Pavement Management Coordinator, Troy is responsible for all the resurfacing needs for over 800 lane miles of roads. Also, he is involved in the specifications for many of the pavement preservation methods that are utilized in the city. Troy has 4 children, 2 grandchildren and in his spare time he enjoys playing golf.



Presenter

Todd Buckles

Technical Marketing Manager
Ergon Asphalts & Emulsions, Inc.

Todd has worked for Ergon Asphalt & Emulsions for 3 years as the Technical Marketing Manager for Florida. He is a Certified General Contractor in FL, and has a BS degree in Goofing Off. There are those that consider Todd a very serious person. Todd plans to actually meet these people one day.

PRESENTATION #6

Smart Communities: Leveraging Technology to Increase LOS, Reduce Cost, & Improve Operations

Wednesday, November 28

2:15 p.m. - 3:00 p.m.

Smart communities and the Internet of Things (IoT) use data and technology to create efficiencies, improve sustainability, create economic development and enhance the quality of life in our communities. This presentation will provide an overview of the smart city approach, how it is being applied in North Florida and specific applications that are applicable to smart communities of all sizes. Examples of maturing and emerging technologies that will be discussed include smart lighting, infrastructure management systems and smart traffic management solutions.



Presenter

Terry Shaw, P.E.

Associate Vice President

HNTB

Terry has 27 years of experience in the public and private sector. He currently serves as the group director for HNTB's Jacksonville Office. Terry has extensive experience with transportation planning and Intelligent Transportation Systems (ITS) including managing and serving as the engineering of record for over 60 design projects.

As a technology professional, he served as the program manager for FDOT's ITS Office for the development of a \$700 million program for the deployment of ITS on 2,105 miles of limited-access facilities in Florida and is currently working with the North Florida TPO, FDOT District 2 and JTA in the development of ITS and smart city projects including connected and automated vehicles.

Terry published or presented over 50 times in international, national or regional publications and conferences in his career including: ITS World Congress, ITS International, Civil Engineering Magazine, Transportation Research Board, ASCE Annual Meeting, AASHTO, ITE and Florida Engineering Society. Five projects he led received national or regional awards in planning, ITS or final design.

Conventional Repair Techniques for Concrete Bridges

Wednesday, November 28

3:15 p.m. - 4:00 p.m.

The majority types of bridges in the State of Florida are concrete bridges which can be greatly attributed to the production cost of cement concrete being very low when compared to steel, polymers, and other construction materials. To maintain the serviceability and prolonging the life of a concrete bridge, preventive maintenance of all concrete bridge components will be vital during the service life of the bridge. This presentation will address the process to follow to prolong the life of a bridge.



Presenter

Jorge L. Perez, P.E.

Senior Project Manager - Structures
Kimley-Horn & Associates

Jorge has over 34 years of professional experience in engineering for transportation projects including highway and bridge studies and design, bridge rehabilitation and repairs, conventional and complex bridge inspection, conventional and complex bridge load rating, structural design, building design, foundation design and miscellaneous related highway structures design.

Jorge's project experience includes working with a variety of clients on both the public and private sector that included short, medium and long span bridges. Some of the bridge projects Jorge has been involved in utilizing precast pre-stressed concrete, cast-in-place reinforced concrete, steel plate girders (straight and curved), concrete box culvert (cast-in-place or pre-cast) 3-sided and 4-sided, and timber.

Jorge has also participated in the Bridge Inspection program serving as a team leader, deputy project manager, project manager, confirming registered professional engineer, load rating engineer, and emergency responder on multiple projects for State Departments of Transportation and other municipal agencies.

Regional Transportation Initiatives

Wednesday, November 28

4:00 p.m. - 4:45 p.m.

This presentation will discuss the current state of Pinellas County's traffic management initiatives from a local and regional perspective. Topics will cover our Intelligent Transportation System (ITS) efforts, Smart Cities Initiatives and current funding issues.



Presenter

Ken Jacobs, P.E.

Director of Transportation
Pinellas County

Ken has over 35 years' experience in all facets of Public Works and Transportation. Currently Ken oversees all county transportation related functions including engineering, design, transportation planning, traffic safety, advanced traffic management systems, traffic operations, traffic and roadway maintenance.

Ken has over 25 years' experience installing and operating large scale state-of-the-art computerized signal systems.

Ken is an active member of several professional organizations including Intelligent Transportation Society of America (ITSA), American Public Works Academy (APWA) and International Transportation Engineers (ITE). Ken currently serves on the ITS Florida Board and served as Chapter President in 2009 and 2015.



Presenter

Addie Javed, P.E.

Director of Public Works
Pinellas County

Addie Javed started with Pinellas County on September 4, 2018, after he was appointed as the director of Public Works. Addie is a licensed professional engineer, and is a Gator and Spartan at heart.

He brings more than 22 years of diverse experience in management, engineering, administration and supervisory experience, working for a fortune 500 multi-national corporation like AECOM, and public agencies like Sarasota County and Haines City. He was most recently the Public Works Director for Haines City, overseeing the city's transportation, stormwater, sanitation, fleet, building, engineering and geographic information systems divisions. Mr. Javed is a past president of American Society of Civil Engineers, Florida Section, and has been nationally recognized by ENR and Civil Engineering News. His expertise has led to his appointment to several committees in organizations such as the Florida League of Cities and Florida Stormwater Association.



Shoulder Repair in Hernando County

Thursday, November 29

9:00 a.m. - 9:45 a.m.

This presentation will introduce a new attachment for use with a skid steer designed to restore shoulders of roadways which have been damaged due to erosion. Hernando County has taken advantage of the skid steer attachment to minimize accidents caused by drivers catching the edge of a road and losing control of the vehicle. The presentation will show how the machine works and the productivity expected from the machine in performing shoulder restoration.



Presenter

Fred LaPiana

Assistant Director of Public Works
Hernando County

Fred LaPiana is the Assistant Director of Public Works for Hernando County, and is responsible for the maintenance of county roads, right of ways and traffic signals. He has been with the county for 5 years, and has been in the Public Works industry since 1978.

He started his career in the Naval Civil Engineer Corps assigned to Public Works management positions for fifteen years. He then continued his career as the Public Works Director for Vineyard Haven, Massachusetts located on Martha's Vineyard and served 20 years in that capacity. He has a Masters in Civil Engineering from the University of Colorado.

Fred and his wife Jill will be celebrating their 40th anniversary this year with their two children and two grandchildren who also live and work in great state of Florida.

Expanding Artificial Reefs within Hernando County:

Both Offshore and Nearshore Habitats

Thursday, November 29

9:45 a.m. - 10:30 a.m.

Keith Kolasa will provide an overview of the artificial reefs created over the past year within Hernando County. The topics covered will include the benefits and objectives of the reef program, site evaluations, permitting, logistics, biological monitoring, and opportunities for volunteers. Lessons learned and plans for future reef deployments will also be discussed.



Presenter

Keith Kolasa

Aquatic Services and Waterways Manager
Hernando County

Keith Kolasa recently joined Hernando County as the Aquatics Services and Waterways Manager overseeing construction of artificial reefs, lake management projects, development of a marine enhancement plan, and general maintenance of the County's waterways and its offshore and inshore navigation aids markers.

Keith is a biologist with 28 years of experience in freshwater and marine resource management, including experience in water quality monitoring, water quality enhancement and lake restoration, natural system restoration, GIS mapping, and establishment of Minimum Flows and Levels. As a native to Hernando County and having managed the seagrass mapping project of Florida's Adventure Coast and surrounding counties, he is knowledgeable of the marine systems of this region. Keith has served as a volunteer scientist for Scubans International since 2009, and currently serves as the Science Education Outreach Coordinator, is a licensed 50 ton boat captain, and a scientific diver.

PRESENTATION #11

FHWA Update, NACE Update, Legislative Update

Thursday, November 29

10:45 a.m. - 11:45 a.m.

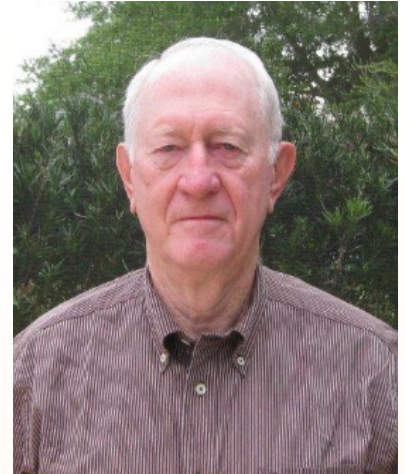
Various members of the FACERS community will share updates on transportation issues at the local, state, and national level.



Nick Finch
*Associate Divisions
Administrator
FHWA*



Scott Herring, P.E.
*Director of Public Works
County Engineer
Hernando County*



John Goodknight
*Executive Liaison
FACERS*

EDC Innovation for Locals

During this presentation, Ramon will provide an overview of the EDC and explain the importance for local transportation officials to participate and respond to their inquiries when needed.



Presenter

Ramon Gavarrete, P.E.

Public Works Director / County Engineer
Alachua County

Since May 31, 2016, Ramon has served as the Public Works Director and County Engineer for Alachua County, Florida. As such, he oversees the Engineering, Surveying, Traffic Operations, Fleet Management, Critical Facilities, and the Road & Bridge divisions.

In his current position, Ramon is responsible for major functional areas of Public Works including planning and administration of capital projects relating to transportation infrastructure, road and bridge maintenance, transportation improvement programs, development review, emergency management, planning and coordinating technical engineering services for transportation and storm water management, and overseeing development and implementation of programs, practices and procedures for the division. On January, 2018, Public Works welcomed a new division known as Critical Facilities which includes building maintenance and capital projects for all 24/7 operations; including Public Works.

Previously, from May of 1996 until his employment with Alachua County, he served the residents of Highlands County, Florida as County Engineer & Solid Waste Director. Prior to his employment with Highlands County, he was employed with CALTRANS and the Florida Department of Transportation.

He holds a Bachelor of Science degree in Civil Engineering from Florida International University and is a licensed Professional Engineer in the State of Florida.

PRESENTATION #12

FDOT District 7 Issues

Thursday, November 29

2:00 p.m. - 2:45 p.m.

District 7 Secretary, David Gwynn, P.E., will share with attendees the upcoming projects in the region and how they are addressing any issues that arise.



Presenter

David Gwynn, P.E.

District 7 Secretary

Florida Department of Transportation (FDOT)

Mr. Gwynn was appointed as FDOT District Seven Secretary in July of 2017. Prior to this appointment, David served as Director of Transportation Operations for FDOT District One in Bartow.

Mr. Gwynn spent 30 years in the private sector, providing consulting services to the transportation industry before joining FDOT in January 2016. He co-founded TEI Engineers & Planners in 1991 and led the growth of the firm to over 125 staff members throughout Florida and Georgia. He later served in senior executive roles for several large engineering consulting firms, leading business units of up to 700 staff members throughout the Southeastern United States.

As the District 7 Secretary, David provides administrative oversight for the planning, development and operations for all transportation modes within Citrus, Hillsborough, Hernando, Pasco and Pinellas counties.

Mr. Gwynn is a 1983 graduate of the United States Military Academy at West Point, where he earned a Bachelor of Engineering degree.

During his military service, David served as a Field Artillery Officer in the U.S. Army as well as the Florida National Guard. In addition, he also holds a Master of Transportation Engineering degree from the University of Florida. Mr. Gwynn resides in Tampa with his wife and has five children and two grandchildren.

PRESENTATION #13

The 7 Habits of Highly Dysfunctional Leaders

Habit 5: Passive Aggressive Behavior

Thursday, November 29

3:00 p.m. - 3:45 p.m.

The National American Public Works Association (APWA) Leadership and Management Committee is working on providing resources for the 7 Habits of Highly Dysfunctional Leaders, and the 5th habit is Passive Aggressive Behavior. Passive Aggressive Behavior is characterized by indirectly resisting the demands of others and avoiding direct confrontation. In other words, confronting a situation in an indirect way. In this presentation, we will learn the reasons for passive aggressive behavior, as well as go over the signs to recognize it in others and ways to approach it. We will also look at ourselves in the mirror and learn ways to avoid this type of behavior.



Presenter

Elia Twigg, P.E.

Local Agency Manager / Senior Project Engineer
Target Engineering Group

Elia is the Local Agency Manager and Senior Project Engineer for Target Engineering Group (TEG) - a Construction Engineering and Inspection firm in Florida. Prior to working at TEG, she worked for the City of Palm Bay Public Works Department for 10 years, with her last 3-1/2 years as the Public Works Director.

She is an active member of the American Public Works Association (APWA), and is part of the Knowledge Team where she works with the Leadership and Management Committee on various projects. One of the latest projects is producing materials for the 7 Habits of Highly Dysfunctional Leaders, and the 5th habit is Passive Aggressive Behavior.

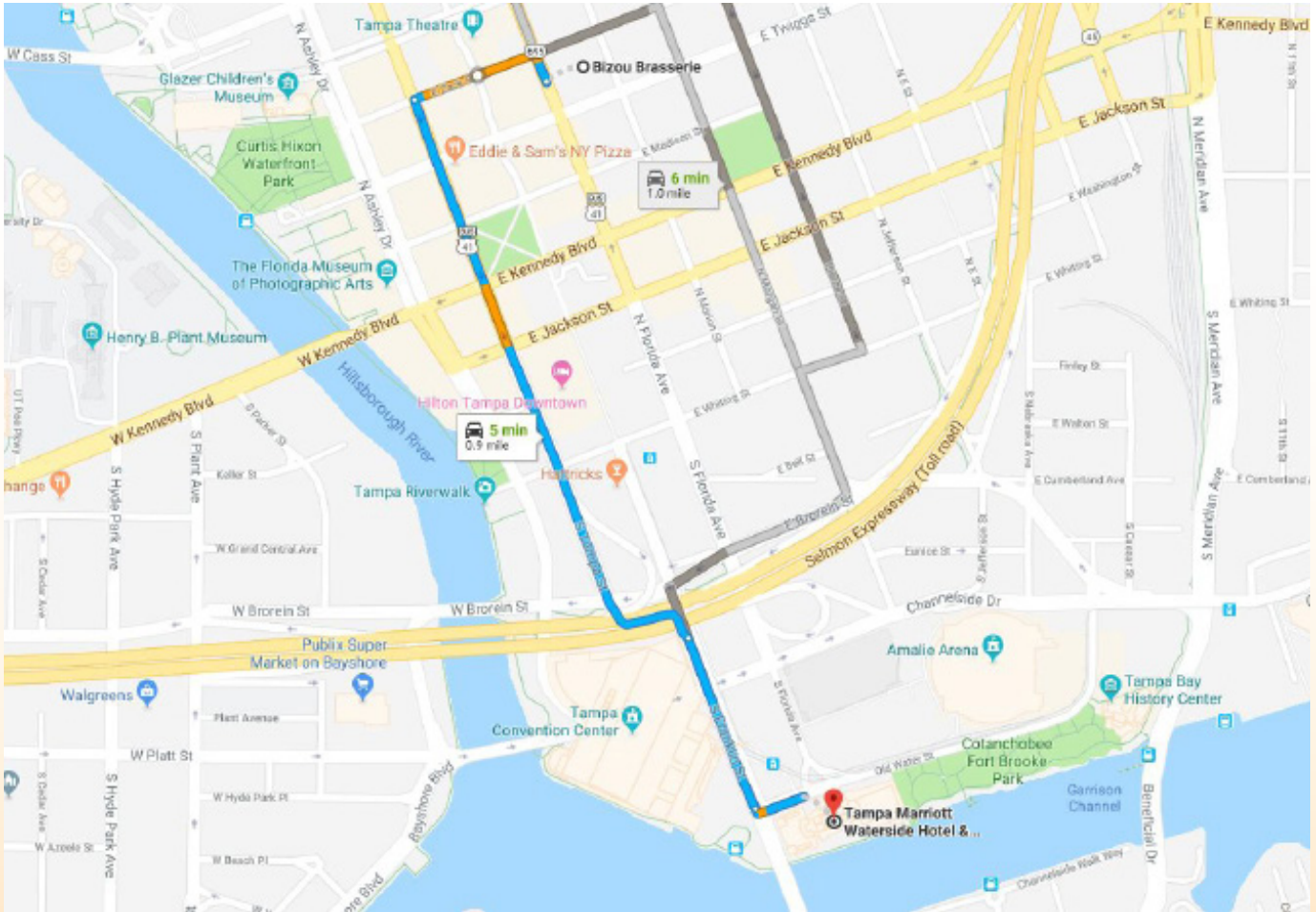
Ms. Twigg learned early in her career that dealing with challenges in a passive aggressive manner delayed her desired outcome, so she learned some tactics for dealing with these challenges directly.

FACERS ROUNDTABLE

Thursday, November 29
3:45 p.m. - 4:30 p.m.



FACERS SOCIAL THURSDAY, NOVEMBER 29 6:00 PM - 9:00 PM



Bizou Brasserie
601 N Florida Ave.
Tampa, FL 33602



The mission of FACERS is to foster and maintain a high professional spirit among the members, provide instructive and entertaining programs of interest to the members, and to provide an organization through which the public works programs may be coordinated among Florida's Counties, Municipalities and other governmental agencies.

