

**101st FES/FICE Annual Conference**  
**EDUCATIONAL COURSES**  
*(Subject to Change)*

*Course Key:*

Courses highlighted in **blue** are designated FICE/ACEC-FL Courses

**Thursday, August 3, 2017 – 8:30am – 10:30am**

2 PDHs	Edwin Bayo	Laws & Rules and Professional Ethics for PEs
<p>Licenses are required to obtain one (1) hour of continuing education focusing on Florida's professional engineering laws (F.S. 471) and rules (F.A.C. 61G15). Licenses are required to obtain one (1) hour of continuing education focusing on ethics for professional engineers. These courses are expected to cover the basic engineering canons</p>		
2 PDHs	Chuck Roberts	Superior Writing Skills for Engineers
<p>Whether you're writing a technical report, proposal, letter, or memo, your skill in conveying information in a clear, concise, and compelling manner can make or break your ability to achieve your overall objectives, influence others to follow your lead, and produce a document that has true value as a decision making tool. In this unique and entertaining educational session, you'll learn practical techniques that you can immediately implement to improve the quality, effectiveness, and value of your written documents.</p>		

**Thursday, August 3, 2017 – 11:00am – 12:00pm**

	Michael Whelan	How FES Works
<p>This presentation is on how the Florida Engineering Society functions at the State level, and how the Chapter State and NSPE work together.</p>		
1 PDH	Farhad Boeshaghi	Rapidly Evolving Technology: Driverless Vehicles
<p>The "Rapidly Evolving Technology Known As Driverless/Connected/Autonomous Vehicles" presentation outlines the current development status of autonomous vehicles and looks at the long-term effect as presented by case studies in the automotive industry, technology sector, insurance companies, and related professions.</p>		

**Thursday, August 3, 2017 – 1:30pm – 3:30pm**

	Julius Hunter Robert Trompke Peter Sheridan	Chapter Leadership
<p>This session is intended for incoming chapter leadership and those interested in future leadership roles within FES, whether it be at the chapter or state level. This is an abbreviated leadership conference where the first hour we will review and discuss the roles/responsibilities of the various FES leadership positions, the overall structure of FES, and how the chapter and state officers interact for governance of FES. The second hour will include roundtable sessions for the various leadership roles to allow interaction, discussion and sharing of ideas with experienced past leaders from chapter and state levels.</p>		
2 PDHs	Steve Carrier Sam May Jim Reed	Advances in Pavement Preservation- High Density Mineral Bond: FL (& beyond) Case Studies
<p>Pavement Preservation has been around for decades in the form of micro, fog seal, chip seal, rejuvenation, etc. As the price of asphalt continues to increase while agency budgets are shrinking, the need for agencies to preserve their roads as long as possible (vs. laying new asphalt) increases. Understanding the basics of asphalt will help the audience realize the connection between preserving that asphalt by using appropriate preservation methods: we like to say, the right treatment, on the right road, at the right time is the key. Owners can extend the life of their roads and reduce the cost of ownership only when they realize all the tools in the pavement preservation toolbox that are available to them. High Density Mineral Bond may be new to Florida, but it has been used by agencies elsewhere for 15 years with extremely favorable results. High Density Mineral Bond combines uniquely emulsified asphalt with a near-neutral charge that is able to hold an exceptionally high concentration of specific fine aggregates and other components that resist deterioration. High Density Mineral Bond is now being utilized in Florida by public agencies around the state. You will hear from four public works agency representatives from Palm Beach County, and the</p>		

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cities of Orlando, St. Pete Beach, and Margate, and how they have utilized this newest form of pavement preservation treatment on their roadways over the past year. The second hour of the presentation will be a field trip 5 miles over the bridge in Palm Beach County where High Density Mineral Bond was applied earlier this year. Attendees will be able to see and touch this application in West Palm Beach.

**Thursday, August 3, 2017 – 4:00pm – 5:00pm**

	Andy Cummings Peter Moore	Government Relations 101
To provide an overview of Government Relations with a particular emphasis on the State of Florida. Topics include an overview of Government, the basics of governmental relations, techniques to build relationships with elected officials and sample government relation events.		
1 PDH	Chuck Roberts	W@#t! - The Dirtiest Four Letter Word in the Engineering Industry
In this eye-opening and motivating session you'll learn how using the word "wait" results in miscommunication, poor productivity, lost opportunities, and higher costs because important actions are deferred. And, you'll learn what you can do to improve the situation. You'll leave this session with a new perspective, and a new approach that will enhance your reputation as someone who gets things done, save you and your organization time and money, and increase your performance in a manner that will help you achieve your goals more rapidly, and a higher percentage of the time.		

**Friday, August 4, 2017 – 8:00am-10:00am**

	KEYNOTE: Les Standiford	AN EMPIRE BY THE SEA: Henry Flagler, the Building of His Florida "Domain," and the Railroad That Crossed an Ocean
In 1905, at the age of 72, Florida's legendary entrepreneur Henry Flagler began the building of the Key West Extension of his Florida East Coast railroad from Miami to the nation's southernmost city, a 153-mile long project over mostly open water, considered impossible at the time. But those who dismissed Flagler's undertaking as lunacy would be chagrined to see the man ride his own iron into Key West on a bright January day in 1912 as more than 10,000 turned out to cheer. "Flagler's Folly" had become "The Eighth Wonder of the World." Les Standiford, author of the New York Times Best-Selling <u>Last Train to Paradise: Henry Flagler and the Spectacular Rise &amp; Fall of the Railroad that Crossed an Ocean</u> offers a behind-the-scenes look at Flagler's amazing feat and speculates on why the world remains fascinated by it.		

**Friday, August 4, 2017 – 10:00am-11:00am**

1 PDH	Greg Krueger Terry Shaw	North Florida Smart Region Plan
The North Florida TPO and FDOT are completing the first regional smart cities plan in the U.S. that focuses on an entire metropolitan area. This plan addresses the future transportation needs of the area including transportation systems management and operations (TSM&O), automated and connected vehicles, big data solutions and energy efficiency. This presentation will provide a summary of the plan and key projects addressing mobility, sustainability and infrastructure. The project is active and will be completed before the FICE and FES Annual Meeting. A one page summary of the plan is attached and the presentation will be completed at the conclusion of the project.		
1 PDH	Mark Mongeau	It's Not What Is Up, But What's Down
Geotechnical engineers are frequently criticized for being somewhat obtuse and vague with our recommendations. We often hear complaints such as "Why are all your reports alike?" and, "I need more definite values for the estimated water level!" Much of this criticism is a result of our own inability or unwillingness to explain the nature of our work and the inherent limitations associated with studying the underground. In this presentation the speaker will open up some of the mysteries of the geotechnical engineering profession and, using a bit of humor, explain the limitations under which we practice.		

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## Friday, August 4, 2017 – 11:00am – 12:00pm

1 PDH	Nicholas Albergo	Tools to Ensure Effective Preparation and Testimony as an Engineering Professional
<p>Litigation in connection with engineering projects and services continues to be on the rise. The vast majority of testimony by engineers is offered through deposition. Preparation is key to successfully offering deposition and/or trial testimony. Although these services are less frequently needed when compared to others provided by engineers, when such services are desired (or required) as a function of litigation, it is extremely important that engineering professionals understand both the process as well as desirable traits associated with effective testimony. This presentation will offer a brief overview of the factual and procedural information about litigation, but primarily provide guidance from the engineers' point of view in the areas of:</p> <ul style="list-style-type: none"> <li>• What makes a credible witness?</li> <li>• How to perform a resume checkup to ensure accuracy and emphasize knowledge, experience and training</li> <li>• Preparing opinions and the substance of your testimony</li> <li>• File management (email, document retention, etc.)</li> <li>• Strategic deposition preparation and tips to success</li> <li>• Strategic trial preparation and tips success</li> <li>• Managing your time</li> <li>• Writing and defending your expert report</li> </ul> <p>Especially in the case of litigation, engineers must be master of their own domain, and keep their integrity intact by being able to explain anything that they have done or not done in a manner that is understood by non-technical people. Surprises generally happen only when preparation is lacking, or discovery was conducted poorly. The learning objectives include:</p> <ul style="list-style-type: none"> <li>• Preparing your resume for scrutiny</li> <li>• Managing documents</li> <li>• Preparing your opinions and defending your report or work product</li> <li>• Strategic tips to effective testimony associated with technical matters.</li> </ul>		
1 PDH	Kumar Allady Aneesh Goly Blake Guillory	Connected Infrastructure using Embedded Sensors a Disruptive Technology
<p>Embedded Data Collector (EDC) technology is an indigenous technology developed by Florida Department of Transportation with the University of Florida. This technology is being used by many State DOTs including, Florida, Virginia, Louisiana, North Carolina and Maryland Port Authority, Federal Lands Highways and FHWA. This technology tests and monitors the health of the nation's physical infrastructure such as highways, bridges, high rise buildings, nuclear power plants and other types of large-scale structures. The solutions are based on a patented miniature wireless sensor that is cast directly into wet concrete as it is poured into piles, pillars, shafts, beams, columns, foundations and other structural elements. These sensors provide Owners, Designers and Contractors with critical data on the strength and integrity of structures during construction to optimize quality control, safety and construction cost. Post construction, the sensors provide state and federal government agencies with ongoing infrastructure operational health information – for example, the stresses induced on a bridge by traffic and wind, as well as extraordinary events such as an earthquake, hurricane, train derailment, vehicle strikes and etc.</p>		

## Friday, August 4, 2017 – 1:30pm-3:30pm

2 PDHs	Pietro Banov Elisha Masséus Antonio Nanni Michelle Rambo-Roddenberry	The Halls River Bridge – perspective of owner/designer, contractor and researcher
<p>This is a three-speaker presentation offering different perspectives. The Halls River bridge replacement project started on January 9, 2017 with completion expected by the end of the year. Even though not an iconic structure in terms of aesthetic and geometry, it is a landmark construction because of the material systems and technology adopted for the first time by FDOT. As for many of the Florida bridges, both superstructure and substructure are classified as extremely aggressive due to Halls River's chloride concentrations and the close proximity of the superstructure to the water. The use of non-corrosive fiber reinforced polymer (FRP) bars, stirrups and strands as the concrete reinforcement and prestressing tendons is an efficient method to address the long-term durability. FRP reinforcement are used in cast-in-place concrete bulkhead caps, pile caps, wing-walls, backwalls, deck, traffic barriers, and approach slabs. FRP strands are used in piles and sheet piles.</p>		
2 PDHs	Rolando Corsa Ralph Verrastro	A Bridge By Others?
<p>Developed for Civil Engineers and Land Development Project Managers, this course provides the attendees with a best practices approach to managing the coordination process for the design and construction of a bridge on a land development project. It also provides an overview of the numerous bridge products available in today's bridge market and the governing design specifications. The design of a bridge on a land development project can be a "deal breaker" if the most economical solution is not determined. The attendees of this common sense course will gain knowledge to be better prepared to manage their way to the most cost effective bridge project.</p>		

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**Friday, August 4, 2017 – 4:00pm-5:00pm**

<i>FICE/ACEC-FL Track</i>	Emily Rickard Erin Turley Lydia R. Zabrycki	Retirement Plan Litigation and Regulation: What you don't know will cost you!
An overview of the current environment affecting qualified retirement plans including recent regulatory developments and cases. The session will focus on recent class action litigation over 401(k) Plans related to fees, investment alternatives and investment menus. The session will also provide an update on the DOL's Fiduciary Regulation which is set to go into effect June 2017 and what that means for 401(k) Plan Sponsors. Lastly the session will educate attendees on the ACEC Retirement Trust and how it assists ACEC Members with their 401(k) Plan needs.		
1 PDH	Jeff Marcus PhD Bruce Mowry PhD, PE	How Sea Level Rise is Challenging and Changing Miami Beach
The presentation will look at Sea Level Rise Challenges from two major perspectives: engineering design and environmental permitting		
	Jim Barnes	Uncommon Sense: Developing Managers Beyond Buzzwords
You may be a great engineer. That doesn't mean you'll be a great manager of engineers. And yet, that's the system upon which the business world was built. Basically, if you were good at what you did, you were promoted to something you weren't good at doing. And we wonder why we developed so many workplace challenges? In this session, we'll look at the skills managers really need, we'll laugh at the ways we've been developing managers by eliminating their common sense, and we'll discover real world ways to develop skills both inside and outside of a classroom environment.		

**Saturday, August 5, 2017 – 8:00am-9:00am**

<i>FICE/ACEC-FL Track</i>	June Jewell	6 Steps to Increase Profits in A&E Firms
Learn to get the most from people, processes and technology to gain a competitive edge and increase your firm's profitability. June will provide valuable best practices and advice that will show you how to improve your firm's performance and prepare the firm's future leaders to successfully take the reins. Based on her best-selling book "Find the Lost Dollars: 6 Steps to Increase Profits in Architecture, Engineering & Environmental Firms"		
1 PDH	Matthew Alexander Fernando Navarrete	Nutrient Removal /Use of Stormwater Treatment Areas for Reduction of Total Phosphorous Loads Entering the Everglades
The presentation explains the natural mechanism used to remove Phosphorous. It also describes the components of a Storm Water Treatment Area. More specific the Compartment C STA which has successfully improved the water quality of the everglades for several years.		
1 PDH	Mariben Andersen	Merritt Island Airport RSA Safety and Resiliency
Merritt Island Airport is a public general aviation airport located in Merritt Island with one 3,601-foot-long runway (Runway 11-29) and is surrounded by the Banana River Aquatic Preserve (River). The presentation will discuss the challenges in designing and constructing a resilient structure while minimizing impacts to the River which involved filling 185 feet into the River to build the RSA, and filling, restoring, and armoring the shoreline.		

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**Saturday, August 5, 2017– 9:00am-10:00am**

<i>FICE/ACEC-FL Track</i>	Robert Fluet	5 Minutes a week to Fierce Client Loyalty
Client Savvy will discuss the importance of the Client Experience. Being empathetic to your clients, putting yourself in their shoes, and creating a strong feedback loop with your clients will enable Engineers to creating raving clients, drive repeat business, and ultimately have a better work life balance.		
1 PDH	Christopher Geiger	Leading Technical Innovation in Industry (*Pixie Dust Not Included)
<p style="text-align: center;">Presentation on leading (and maybe evening managing) technical innovation in industry. Topics include:</p> <ul style="list-style-type: none"> <li>- Communicating Technical Whiz-Bang-ery to Executive Management</li> <li>- Systems of Systems Model Based Engineering</li> <li>- Agile System Development</li> <li>- 30 year Sustainment in a 2 year Technology Lifespan World</li> </ul>		
1 PDH	Andres Gomez	Water Balance Modeling for Water Optimization at an Inland Power Station
This presentation presents an interactive, multisource, multi-variable water balance. This water balance was developed for an electric power station, and has application for water resource applications.		

**Saturday, August 5, 2017– 10:30am-11:30am**

1 PDH <i>FICE/ACEC-FL Track</i>	Mark Jackson Erin Johnson	What's in your Contract? - Managing Risk Through Contract Language
This course demonstrates how contract language can affect the outcome of a claim. Learn key contract provisions every design professional should be able to identify and explore ways to avoid uninsurable risks in contracts. We will also review two important contract clauses that should be included with every client contract. The Limitation of Liability clause limits the firm's liability and Individual Protections for Design Professionals clause enables firms to negotiate contracts that protect their professional employees from being sued individually by their clients.		
1 PDH	Samantha Danchuk Frank Marshall	Regional Collaboration for Resilient Redevelopment
Broward County has invested in and implemented a holistic suite of resilience initiatives with the outcome of generating sufficient momentum to effect change in policy, build productive new partnerships and develop a clear strategy for embedding resilience in the community based on science and stakeholder interest. Over the past decade, these initiatives have included vulnerability assessments, comprehensive plan and land use plan updates, hydrologic and hydrodynamic models, economic analyses and adaptation strategy evaluations. This past year, through broad participation by stakeholders of different disciplines and with different missions, the County is successfully transitioning into the implementation phase of the program with resilient measures being considered in capital projects, expanded regulation of community flood risks and strategic conversations amongst interdependent new partners. In furtherance of adaptation efforts, Broward has collaborated regionally through the Southeast Florida Regional Climate Change Compact and with federal, academic and industry partners in resiliency planning including the US Army Corps of Engineers and the US Geological Survey. This presentation will provide a brief review of how the regionally-specific tools are being applied across agencies and how resilience is being integrated into already programmed capital projects.		
	Elizabeth Landowski	Flipping the Script on Infrastructure Investment
Food. Water. Shelter. Infrastructure. While the needs of each individual may change daily or even instantly, some needs remain constant. Food, water, and shelter are ever-present in our minds, but why isn't infrastructure? Why do we take for granted that our roads and bridges will be traversable, water will be drinkable, or our trash will be disposed? Without proper investment in infrastructure, we can't maintain the basic necessities of life. Why does it take a failure to remind us that the nation's infrastructure is at the heart of our needs? Join Elizabeth Landowski as she discusses historical failures and the role engineers play in flipping the script and changing the mindset on infrastructure investment from reactive to proactive.		

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**Saturday, August 5, 2017– 11:30am-12:30pm**

<i>FICE/ACEC-FL Track</i>	Larry Danner	Creating and Sustaining A Peak Performance Culture That Enables Corporate Growth
<p>Culture is one of the most critical elements when creating and growing a successful company or organization. In this discussion, meeting participants will learn what drives culture, how to build an intentional culture, as well as how to sustain a culture of peak performance. The discussion will reveal principles that any group can use to understand, shape, and sustain a peak performance culture:</p> <ul style="list-style-type: none"> <li>• Learn useful, actionable principles and tools that can transform cultures and produce extraordinary results. <ul style="list-style-type: none"> <li>• Understand what is limiting peak performance and what to do about it.</li> </ul> </li> <li>• Recognize, decode, and leverage the principles and behaviors that shape organizational culture. <ul style="list-style-type: none"> <li>• Discover and reallocate resources away from low and non-value added activity.</li> </ul> </li> <li>• Ensure that the critical people are focused on the most important issues rather than diluted across many non-critical matters. <ul style="list-style-type: none"> <li>• Understand what's at stake if deliberate actions are not taken to shape an organization or group's culture.</li> </ul> </li> </ul> <p style="text-align: center;">A culture in peak performance allows an organization to:</p> <ul style="list-style-type: none"> <li>• Increase Growth or Expansion <ul style="list-style-type: none"> <li>• Refine Strategy</li> </ul> </li> <li>• Enhance Customer Focus <ul style="list-style-type: none"> <li>• Increase Collaboration</li> <li>• Enrich Communication</li> <li>• Reduce Fragmentation</li> </ul> </li> <li>• Decide Future Courses of Action <ul style="list-style-type: none"> <li>• Resolve Outstanding Issues</li> </ul> </li> </ul> <p>Meeting participants will also be outfitted with highly effective visual frameworks that name and explain patterns of behaviors that show up in organizations and groups. Every leader has seen their effect, but many cannot effectively recognize, anticipate, and manage these behaviors and patterns. Unacknowledged or unaddressed, these behaviors can put intentional culture at risk and make it difficult to grow an organization. However, once mastered, these recognized behaviors can become a force for leaders to solve any cultural or leadership problem.</p>		
1 PDH	John Barber	Structural and Electronic Protection Systems from Lightning and Power Surges
<p>This presentation will show and display the options available for protecting all structures from the damaging effects of lightning. Presentation will show the advantages and disadvantages of different types of protection systems available. Conventional Lightning protection and Early Streamer Emission systems. 2nd part of presentation will look at the effectiveness and design of 3 level cascaded surge protection plans to protect the electrical distribution systems down to low voltage sensitive electronic equipment from catastrophic loss. 3rd part of presentation will show the importance and relationship of low resistance grounding systems pertaining to Electrical distribution, Lightning protection, and Surge protection. Power point used, with physical displays and materials.</p>		
1 PDH	Steven Bassett	Psychos & Myths
<p>This presentations is a refresher course on Psychometrics, breaking down the Psychometric Chart, explaining how it applies to HVAC Systems and explaining away some myths. It also provides an example how it can be used in a house to reduce high humidity causing mold growth.</p>		

**Saturday, August 5, 2017– 3:30pm-4:30pm**

1 PDH <i>FICE/ACEC-FL Track</i>	Tyler Tracz	Drones - Applications and Limitations of UAS Mapping
<p>Unmanned Aerial Systems (UAS) are generating much interest within the fields of engineering and infrastructure, largely due to their flexibility, affordability, and ability to produce high-resolution geospatial data. This presentation examines the potential applications and limitations of UAS mapping in engineering-related fields, with a particular emphasis on transportation engineering and energy infrastructure. Developed through a combination of academic research and actual consulting experience, this presentation draws on the insight of various industry professionals to provide a practical representation on the current state of the aerial mapping, transportation, and energy industries regarding UAS technology. A variety of potential applications are discussed, including pre-design roadway planning, construction management and support, railroad applications, port applications, and infrastructure inspections. Factors that are currently limiting the application of UAS technology are also discussed, including profitability, regulations, project area extent, geospatial accuracy, public opinion, and safety concerns. The presentation will also discuss actual projects, including a UAS Proof of Concept Study that received a National Recognition Award for exemplary engineering achievement in the American Council of Engineering Companies' (ACEC) 50<sup>th</sup> Annual Engineering Excellence Awards.</p>		

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1 PDH	Robert Hintersteiner	Streetcars -Past-Present-Future
<p>Streetcars are coming back and they had a rocky history. In the 19th century, it was the omnibus, and the idea of moving a large group of people daily. In the 20th century, technological improvements moved from the horse driven streetcars to electrically driven streetcars (aka trolleys). In the 21st century has seen new growth of the streetcars due to high traffic congestion in the urban and suburban communities.</p>		
1 PDH	Shayne Paynter	Old Tampa Bay Circulation Improvements
<p>In lieu of traditional stormwater management facilities in a very urban area of downtown Tampa, an innovative, regional approach to stormwater treatment involving removal of a causeway was undertaken. An area north of the Courtney Campbell Causeway has had poor water quality and seagrass growth despite improvement in the rest of the bay. It was surmised that severing of historic tidal circulation patterns may be the cause. Tampa Bay is impaired for nitrogen, however, despite significant reductions in nitrogen to the bay, seagrass has not grown north of the causeway. FDOT and Atkins conducted a study of the variety and depth of seagrass in the area, area water quality and sediment as well as a hydrodynamic model to determine that removal of a portion of causeway and replacement with a bridge would bring ecological uplift. The study was successful and after extensive permitting with multiple agencies, the project is near advertisement. This was the first project to tie ecological uplift to an equivalent reduction in nitrogen from ponds. The estimated savings for FDOT was \$100 million in right-of-way. In addition, significantly more environmental benefit will be realized from tidal circulation improvement than the traditional ponds that would have been required.</p>		

### Saturday, August 5, 2017– 4:30pm-5:30pm

<i>FICE/ACEC-FL Track</i>	Greg Powell	Seeking Certainties in an Uncertain Market
<p>We are nine years into this economic recovery and several months into the new administration. Where is the economy and the Engineering industry headed? What global and domestic forces are impacting the industry? What can we expect ahead? In this discussion, we will take a closer look at the key market drivers shaping the industry in 2017 and what you should watch for. We will discuss a variety of near- and longer-term market dynamics affecting your business as well as the broader A/E/C industry.</p>		
1 PDH	Addie Javed Fazil Najafi	Florida Infrastructure, Asset Management & Public Policy
<p>Infrastructure is the backbone of Florida's economy, and a necessary part of every Floridian's day. Last year Florida Section of the American Society of Civil Engineers (ASCE) released the 2016 Report Card for Florida's infrastructure, and the State infrastructure overall received a grade C. As Florida continues to grow, investing in infrastructure must be State's and local jurisdictions top priority to continue to be the preferred place people want to live, work and play. According to ASCE's 'Failure to Act' economic study, consequences of continued underinvestment in our nation's infrastructure can be devastating by costing every American household about \$9 out of their pockets every day to deal with less efficient and costly infrastructure services. In order to better manage State's infrastructure needs, prioritizing every dollar for best return on investment (ROI) and proactive maintenance programs are essential. As more municipalities embrace this reality, it is imperative to have sound Infrastructure policies in place to establish the foundation of sound asset management programs.</p>		
1 PDH	Sage Kamiya	Measuring Performance of the Sarasota Manatee RTMC
<p>The Sarasota Manatee Regional Traffic Management Center (RTMC) is a partnership between Sarasota County, Manatee County, City of Bradenton, City of Sarasota, City of Palmetto, and the City of Venice. This presentation will provide an overview of the RTMC responsibilities and tools used to measure and report on performance and compliance with FAST Act performance measurement.</p>		