

## Tuesday, March 20, 2012 (Day 1)

8:00am - 9:30am	<b>REGISTRATION</b>				
9:30am - 12:00am	<b>GENERAL SESSION</b>				
12:00pm - 1:30pm	<b>LUNCH</b>				
Room	<b>SEMINOLE</b>	<b>LAKE</b>	<b>ORANGE</b>	<b>VOLUSIA</b>	<b>DADE</b>
1:30pm – 2:10pm	<u><b>ASPHALT</b></u>  Richard Hewitt Dave Drehmer Terry Humphrey	<u><b>MOT</b></u>  Stefanie Maxwell Rudy Powell Trey Tillander Fred Heery Ezzel Benghuzzi	<u><b>NEW BRIDGE MATERIAL DESIGN OPTIONS</b></u> Bridge in a Backpack & Hybrid Composite Beams  Christine Mizioch	<u><b>CONCRETE PAVING</b></u>  Sharon Griffiths Andre Sutherland Rob Hansgen Dennis Clausen	<u><b>SNAKES, BIRDS, &amp; WATER</b></u> : Environmental Permit Compliance tips and tools.  Bruce G. Hasbrouk Larry Ritchie John Palenchar Fernando Ascanio
2:20pm – 3:00pm			<u><b>GEOFOAM</b></u> A Lightweight Fill Alternative  Nico Sutmoller		
3:00pm - 3:30pm	<b>BREAK</b>				
3:30pm - 5:00pm	<u><b>ASPHALT*</b></u>  Richard Hewitt Dave Drehmer Terry Humphrey	<u><b>STRUCTURES</b></u>  Steven Plotkin Dan Hurtado Mario Paredes Paul Lampley	<u><b>WEKIVA PARKWAY &amp; I-4 PROJECT UPDATES</b></u>  Suzanne Phillips Loreen Bobo	<u><b>CONCRETE PAVING*</b></u>  Sharon Griffiths Andre Sutherland	<u><b>LESS</b></u>  Rudy Powell Trey Tillander Chester Henson Fred Heery
		<u><b>GEOSYNTHETICALLY REINFORCED SOIL (GRS)</b></u>  Robert Barrett			
6:00pm - 7:30pm	<b>RECEPTION</b>				

\*Repeat Sessions

## Wednesday, March 21, 2012 (Day 2)

Room	SEMINOLE	LAKE	ORANGE	VOLUSIA	DADE
8:00am - 8:45am	<a href="#"><u>AGENCY COST EFFICIENCIES</u></a> David Sadler		<a href="#"><u>CONTRACTOR QUALITY CONTROL (CQC)</u></a> Ken Morgan Brian Mckishnie Kevin Price Bill Reed Gayle Grady Doug Geiger Jim Phillips	<a href="#"><u>RESEARCH UPDATE</u></a> Richard Hewitt Greg Sholar James Greene Jose Hernando Mike Bergin	<a href="#"><u>SMART PLANS</u></a> David O'Hagan
9:00am - 9:45am	<a href="#"><u>CIVIL INTEGRATED MANAGEMENT (CIM)</u></a> David Ballard Shannon Sweitzer Rich Juliano	<a href="#"><u>WEKIVA PARKWAY &amp; I-4 PROJECT UPDATES*</u></a> Suzanne Phillips Loreen Bobo			<a href="#"><u>DBE/SMALL BUSINESS CERTIFICATION PROCESS</u></a> Terry Watson
9:45am	<b>CLOSE OF FTBA CONFERENCE</b>				
10:30am – 11:00am	<b>FICE: DESIGN-BUILD REGISTRATION</b>				
11:00am – 12:00pm	Welcome/Design-Build Overview				
12:00pm – 1:15pm	<b>LUNCH</b>				
1:30pm – 5:30pm	Design-Build Presentation				
5:30pm	<b>CLOSE OF FICE CONFERENCE</b>				

\* Repeat Sessions

## SESSION DETAILS & SPEAKER BIO'S

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### **GEOFOAM – A lightweight Fill Alternative**

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In this educational experience, the participants will learn about the utilization of geofoam as a light weight fill alternative. EPS Geofoam is a large block, rigid foam plastic material that has typical densities between 12-46 kg/m<sup>3</sup> (0.7-2.85 ft<sup>3</sup>) making it up to 100 times lighter than soil. It is one of the only truly engineered fill materials that has predictable, consistent physical properties. Geofoam exhibits the highest strength to weight ratio of any fill material. Geofoam is a simple, cost effective solution for five major geotechnical conditions that engineers encounter on a regular basis:

1. The elimination or reduction of lateral loads upon structures with geofoam.
2. The utilization of geofoam in the driving block of a landslide.
3. The utilization of geofoam to reduce dead and live loads over buried utilities.
4. Creating a zero loading factor for soft soil remediation.
5. Utilizing geofoam as a structural void fill for various concrete applications.

The incorporation of geofoam for infrastructure projects has now been successfully utilized for a number of decades in a number of countries all over the world. Some of these countries are Norway, The Netherlands, the United States, Japan, Germany and Malaysia. The utilization of geofoam for commercial, residential and infrastructure projects around the United States has seen a dramatic growth trend in recent years.

In this educational experience the participants will also learn the manufacturing process of EPS, the history of geofoam, recent trends, some design considerations, specifications and installation considerations.

### **GEOFOAM SPEAKER – NICO SUTMOLLER**

Nico Sutmoller, Insulfoam Geofoam Specialist works in conjunction with the technical Center and all of the Insulfoam facilities throughout North America as the geofoam specialist. Prior to joining Insulfoam in 2007 as the geofoam specialist, Mr. Sutmoller had vast experience with geofoam ensuring that manufactured geofoam materials such as those required at the Louis Armstrong Int'l Airport, New Orleans, Louisiana and the Woodrow Wilson Bridge in Alexandria, Virginia projects met the material requirements under the strictest manufacturing guidelines. Throughout the country, Nico is a frequent guest speaker at various ASCE Chapters, Geotechnical conferences, USACE districts, Architectural and Engineering firms, numerous DOTs, and their consulting engineers working on specific design/build projects and a multitude of General Contractors.

Most recently, Nico has assisted a number of state departments of transportation in setting their geofoam specifications guidelines such as those presently in place for the Nebraska Department of Transportation. Nico also works closely with and guides the Insulfoam National Geofoam CAD designers in preparing and approval of the geofoam shop drawings for the individual project engineers, visits jobsites and educates contractors that have little prior knowledge to the installation of geofoam in ensuring that the installation goes smoothly.

Most geofoam projects do not necessarily involve transportation applications and Nico works on a multitude of other commercial/residential geofoam projects involved the reduction of lateral and dead loads upon structures, and/or underlying soils have low bearing capacity which would cause unacceptable soil settlement. Nico can be contacted on his cell phone at 616-446-5776 or via email at [nico@insulfoam.com](mailto:nico@insulfoam.com)

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## **MOT (MAINTENANCE OF TRAFFIC) SESSION**

### **STEFANIE MAXWELL, P.E. (FDOT Construction Specialty Engineer)**

Stefanie is a graduate of The Georgia Institute of Technology (GA Tech) with a Bachelor of Civil Engineering. Stefanie began her career 18 years ago with the Florida Department of Transportation (FDOT) as a Professional Engineer Trainee. She has worked as a Project Engineer in Construction and a Permits Engineer in Maintenance, for a total of ten years in Jacksonville, Florida. Stefanie is currently a Specialty Engineer who works in the FDOT, Office of Construction. Areas of responsibility include: American with Disabilities Act Accessibility issues (Detectable warnings on walking surfaces), Crash Cushions/Attenuators, Guardrail, Intelligent Transportation Systems (ITS), Lighting, Maintenance of Traffic, Pavement Markings, Rumble Strips, Signalization, Signing, and Utilities.

### **RUDY POWELL, P.E. (State Construction Engineer)**

Rudy was recently named to the position of State Construction Engineer in the State Construction Office. Rudy has more than 16 years of experience in the transportation industry, including 6 years with FDOT where he recently held the positions as State Specifications Engineer in the Specifications and Estimates Office and Area Engineer in the Structures Design Office. Rudy earned his bachelor's degree in civil engineering from The Citadel, The Military College of South Carolina. He is a licensed Professional Engineer (P.E.) in Florida and South Carolina.

### **TREY TILLANDER, P.E. (Deputy State Traffic Operations Engineer)**

Trey works in the FDOT State Traffic Engineering and Operations Office in Tallahassee. He manages the Traffic Systems Section which includes the Traffic Engineering Research Lab (TERL). His transportation career spans over 18 years in the public and private sectors, including time in Districts 4 and 5 and Florida's Turnpike Enterprise. Trey's current focus areas are the FDOT Approved Product List (APL) and Traffic Operations standards and specifications. Trey has participated in the planning, design, deployment, operations, and/or maintenance of over 25 Intelligent Transportation Systems (ITS) and/ traffic signal projects in Florida. Trey received his Bachelor's of Civil Engineering from Georgia Tech and is a registered Professional Engineer in Florida and Georgia.

### **EZZELDIN BENGHUZZI, P.E. (Maintenance of Traffic Engineer)**

Ezzeldin has worked for the FDOT for the past 18 years. He has held a number of positions, including: Construction Inspector, P.E Trainee, Roadway Designer/Engineer, Quality Assurance Engineer, and Maintenance of Traffic Engineer. His areas of responsibility include the development and implementation of Statewide standards, criteria, procedures, and guidelines relating to Maintenance of Traffic. Ezzeldin graduated from Florida State University with a Bachelors Degree in Civil Engineering and is licensed as a Professional Engineer in Florida, Alabama, and Georgia.

### **FRED HEERY, P.E. (Deputy State Traffic Operations Engineer)**

Fred is a graduate of Drexel University with a Bachelor of Civil Engineering and received a Master of Civil Engineering degree from Villanova University. Fred began his career with the New Jersey Department of Transportation and served in the Construction & Maintenance Division for 13 years followed by serving in the Capital Program Management Division. Fred then joined a local agency in Florida and oversaw countywide traffic signal operations. After that, Fred went into consulting and was System Manager for the Pasco County ATMS and for the Pinellas Countywide ATMS systems. Fred joined FDOT in 2005 and oversees the Operations Section of the FDOT Traffic Engineering and Operations Office in Tallahassee.

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## **ASPHALT SESSION**

### **SPEAKER: RICH HEWITT, P.E.**

Rich Hewitt has worked for the FDOT for over 15 years. He began his working career in the building construction industry (framing, masonry, roofing, etc.) and spent several years as a framing contractor. He has a Bachelor of Science in Civil Engineering from the University of Florida and is a Professional Engineer registered in Florida. He started with the FDOT as a P.E. Trainee and served in District 5 as the District Bituminous Engineer, District Construction Materials Engineer, and also as a Geotechnical Engineer. Rich currently works for the State Construction Office as the State Construction Pavement Engineer.

### **SPEAKER: DAVE DREHMER**

Graduate of Road Builders University, School of Hard Knocks Having started his road building career at around the age of 15, Dave spent first 30 years with the old Macasphalt Division of APAC here in Florida. During that period he was responsible for materials procurement and Quality Control and Production efforts including base materials, asphalt mix design formulations, through asphalt production and placement on numerous private, FDOT, FAA and specialty application projects such as Daytona International Speedway and others. Dave currently, and for the past seven years, serves as Vice President of Sales and Marketing for Mariani Asphalt- an Associated Asphalt Company, Tampa, FL, who are manufacturers and suppliers of emulsions for tack and prime use and a full array of hot mix asphalt binders.

### **PRESENTATION: TACK – WHEN LESS IS MORE???**

Dave Drehmer will discuss best practices for storage and usage of tack. Dave will review optimal application rates, achieving adequate tack coverage, and other steps to ensure a good tack bond while avoiding pavement quality issues that can result from improper tack operations.

### **SPEAKER: TERRY HUMPHREY**

After a 35-year career with Caterpillar, Terry Humphrey retired from full-time service in August 2008, having spent the last ten years as Training Manager for Caterpillar Paving Products. He continues to support Caterpillar Paving Products and the world-wide Cat Dealer network as a training consultant. During his career with Caterpillar, Mr. Humphrey held a variety of marketing and training positions and was involved with the asphalt paving industry for 25 years. He is the author of many articles dealing with quality control issues for asphalt paving and compaction and is a frequent speaker at asphalt pavement associations.

### **PRESENTATION: FOUR ELEMENTS OF QUALITY PAVING**

Terry Humphrey will discuss best practices for achieving quality paving. Terry will discuss what can be done during paving operations to achieve a smooth pavement surface at the correct cross slope that is free of bleeding, end-of-load segregation, and other pavement deficiencies.

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## STRUCTURES SESSION

### STEVEN PLOTKIN, P.E.

- Currently FDOT State Construction Structures Engineer in the State Construction Office: served in this position for 10 years
- Graduate of University of Florida – BSCE Degree
- 40 years as a bridge engineer
- Experience in bridge design, bridge construction, bridge maintenance and bridge value engineering
- Career highlights include:
  - Formerly the FDOT State Structures Maintenance Engineer
  - Served as the Construction Project Manager for the record breaking Acosta Bridge Replacement Project in Jacksonville
    - a 90 million dollar cast-in-place concrete segmental bridge with 630' main span
  - Formerly the FDOT Gainesville Resident Engineer

### DAN HURTADO, P.E.

Dan is a Florida native, a Professional Engineer in the State of Florida and has a Master's Degree in Structural Engineering from Florida State University. Dan spent the early portion of his career as a consultant, performing civil/site design before moving into building structural design where he worked on projects ranging from barns to professional sports venues. Dan has been with FDOT for 7 years and has worked in the Information Systems Office, Environmental Management, Office of the General Counsel, and now with the Office of Construction.

### MARIO PAREDES, P.E.

Mario Paredes is the State Corrosion Engineer and has been working for the Department for 17 years in the Corrosion Research Lab at the State Materials Office. He deals with all areas of Materials durability, but specifically concentrates on Bridge Structures. He graduated with a Bachelors Degree in Materials Science and Engineering from the University of Florida.

### PAUL LAMPLEY, P.E.

Paul is a Registered Professional Engineer with over 25 years in the civil engineering field including 22 years with Florida Department of Transportation (FDOT). Paul is a 1989 Graduate of North Carolina State University in Civil Engineering and he completed his Masters Degree at Florida International University in Environmental Engineering in 1995. Paul served as the FDOT District Project Development Engineer for 9 years overseeing all PD&E projects in District 4 prior to joining the I-595 Project team. Paul currently serves as the FDOT I-595 Construction Project Manager. The I-595 project is a \$1.2 Billion reconstruction and widening project of the I-595 corridor in Broward County and is the first Design, Build, Finance, Operative, and Maintain Public Private Partnership in the State of Florida. Paul is responsible for all aspects of I-595 oversight including roadway and bridge design, ITS, construction, as well as all operations and maintenance of the facility.

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# RESEARCH UPDATE SESSION

## 1. ASPHALT RESEARCH UPDATE:

### **GREG SHOLAR, P.E.**

Greg Sholar, P.E., is the State Bituminous Engineer at the FDOT Materials Research Park in Gainesville, FL. He has worked in the Bituminous Section at the State Materials Office for fifteen years. He is a University of Florida graduate and registered PE in Florida.

Mr. Sholar will discuss a variety of bituminous materials research topics from laboratory and field perspectives.

### **JAMES GREENE, P.E.**

James Greene started his engineering career at the National Center for Asphalt Technology at Auburn University. James worked for 10 years with Applied Research Associates, Inc. – mostly as an on-site consultant with the Air Force Research Laboratory at Tyndall AFB in Panama City and with the State Material Office in Gainesville. In 2008, he joined the State Materials Office as a pavement research engineer where he manages the Accelerated Pavement Testing (APT) program.

Mr. Greene will discuss the current and planned Accelerated Pavement Testing (APT) research projects, as well, as other pavement related research the State Materials Office is conducting.

## 2. CONCRETE RESEARCH UPDATE:

### **MIKE BERGIN, P.E.**

Mike Bergin is the State Structural Materials Engineer at the FDOT Materials Research Park in Gainesville FL. He has worked in the Structural Materials Section of the SMO for 20 years and has been involved with many aspects of research involving structural materials and concrete pavements. He is a University of Florida graduate and a registered PE in Florida.

Mr. Bergin will discuss ongoing and completed concrete research including such topics as the recent evaluation of the Key Royal Bridge, use of RAP in concrete pavement, and the maximum heat of mass concrete including determining a standard size element which will not require temperature controls.

## 3. GEOTECHNICAL RESEARCH UPDATE:

### **JOSE HERNANDO**

Jose Hernando is the Soils Field Operations Engineer at the State Materials Office. He has been with the Florida Department of Transportation for 8 years, all at the State Materials Office, working in the area of geotechnical materials and testing. Jose received his Master's Degree in 2008 from the University of Florida while working with the Department on DOT-sponsored research projects.

Mr. Hernando will provide an overview of the active geotechnical research projects currently underway in Structures, Materials and Construction.

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## **WEKIVA PARKWAY & I-4 PROJECT UPDATES**

This session will provide an update of the Wekiva Parkway project in Orange, Lake and Seminole Counties and the I-4 Ultimate Project – Reconstruction of I-4 through Orlando including Special Use Lanes.

### **SPEAKER: LOREEN BOBO, P.E., M.ASCE**

Loreen Choate Bobo graduated from the University of Florida (UF) with a Bachelor of Science in Civil Engineering in 1999. Mrs. Bobo graduated and soon started working for the Florida Department of Transportation (FDOT) District 5 office in Deland, FL as a Professional Engineer Trainee. This training program allowed Loreen to learn about all aspects of the FDOT and choose where to specialize. Loreen chose to specialize in construction, and started as a Project Administrator immediately. The smaller projects soon grew to larger projects, which eventually led to becoming a Project Manager. In 2007, Loreen graduated with her Masters of Science in Industrial Engineering, with a focus on Engineering Management.

Loreen was the project manager for the \$120 million reconstruction of the I4/408 Interchange located in downtown Orlando. Since then Loreen was promoted to be an Assistant Maintenance Engineer in the Orlando Maintenance Office for District 5. Recently, Loreen also became involved with the I-4 Ultimate project which District 5 is hoping to make a reality in the near future, should the project move forward, she will serve as the Procurement Project Manager.

Loreen has been an active member of the American Society of Civil Engineers (ASCE) since college. Currently she is serving as the President-Elect for the Florida Section. She has also been involved with Civil Gators, a University of Florida Civil Engineering Alumni Organization, since its conception. She is currently serving as the President-Elect.

Loreen has been involved with the FDOT, FTBA and industry sponsored Central Florida Construction Career Days Event, which hosts over 1,500 highschool students each year, it's an interactive day showing the students all that the Transportation Construction Industry has to offer towards their future. Loreen has served as a co-chair for this event since 2010.

Loreen and her husband, Brandon, welcomed their first child, a son, Conor in June 2011.

### **SPEAKER: SUZANNE PHILLIPS, P.E.**

Suzanne is a graduate of the University of Central Florida where I received a Bachelor's Degree in Civil Engineering. Registered Florida Professional Engineer. She has been with the Florida Department of Transportation for almost 15 years. Her first 9 years at FDOT were spent in construction, first as a Project Engineer and then as a Project Manager. The past 6 years I have worked in Design Consultant Project Management as a Supervisor and am also the Design Project Manager for the Wekiva Parkway.

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## **SMART PLANS**

### **SPEAKER: DAVID O'HAGAN, P.E.**

David O'Hagan, PE serves as the FDOT's State Roadway Design Engineer. Following graduation from Auburn University, he entered into private practice as a bridge engineer working primarily with companies under the technical direction of Jean Muller. After 25 years in consulting engineering, he took a position with the FDOT. In his current position, David is responsible for the development and approval of all design policy, criteria and standards for roadway, drainage, pavement and utility facilities on the State Highway System.

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## **CONTRACTOR QUALITY CONTROL (CQC)**

A panel discussion of current CQC issues. (6 – 8 presenters from FDOT & Industry)

### **SPEAKER: KEN MORGAN**

Ken began his career with District 5 as a construction inspector in 1970. He is the Turnpike's Materials Engineer since 2003. He has 40 years experience with Civil Engineering in Florida, and is a Registered Engineer and Threshold Building Inspector. He has 27 years experience working for the FDOT and has an AASHTO award for 30 plus years of service to the Transportation Industry. He estimates he has performed or supervised materials testing programs for more than \$8 Billion worth of transportation infrastructure and buildings in Florida. He is a recipient of Bill Gartner award as an exemplary role model, the Ben Watts Award as Leader of the Year, and the FDOT Excellence in Diversity Award. He is a charter member of the Technical Review Team for CTQP Quality Control Manager qualifications and a member of the FDOT/Industry Rigid Pavement Committee. He worked on the special task team of Materials Engineers that develop the original framework for FDOT's Contractor Quality Control (CQC) program and has been a key supporter of the CQC program from the initial application in the early 2000's to the present format we have in use today.

### **SPEAKER: BRIAN McKISHNIE, P.E. (FDOT DISTRICT 7 CONSTRUCTION ENGINEER)**

Brian is a graduate of the University of Florida (UF) with a Bachelor of Science in Civil Engineering. He began his career 24 years ago working in the Florida Department of Transportation's (FDOT) State Materials Office soil lab while at UF before accepting a Professional Engineer Trainee position with the FDOT in Ft. Lauderdale in 1989. He has over 21 years of experience in Construction has worked as a Construction Project Engineer, Assistant Resident Engineer, Resident Engineer, Interstate Program Manager and Assistant District Construction Engineer. For the past 8 years, he has held the position of District Seven Construction Engineer in Tampa, Florida.

### **SPEAKER: KEVIN L. PRICE, QUALITY CONTROL MANAGER**

Prior to working at DAB Kevin worked for eight years at a Geotechnical and Materials testing firm providing consultant services to the FDOT. While a consultant Kevin equipped and established a new geotechnical laboratory that was inspected and approved for FDOT acceptance testing. Kevin has been qualified in and has field experience with all aspect of roadway construction including prestress, major bridge, Structural concrete and drilled shaft. By the end of his time at Central Testing Laboratory Kevin had been promoted to office Manager with responsibilities that included staff management, Geotechnical and Engineering Evaluations, and oversight and staffing of three districtwide CEI and materials testing contracts, as well as, an emergency geotechnical response contract for sinkhole remediation. Since the his start at DAB in 2003 Kevin has pursued a greater understanding of Hot mix asphalt pavement while continuing to oversee the earthwork and concrete construction operations of a major road building contractor. Kevin is in responsible charge of all Quality Control personnel and activities at DAB. Kevin is currently the chairman of the Asphalt Contractor Association of Florida (ACAF) specifications committee, sits on the FDOT Pavement Smoothness Committee, and is involved in the re-writes of several specifications including Contractor Quality Control (section 105). Kevin is also a contributor to industry periodicals and has provided professional advice and services through his website that was created to help the industry understand the CQC system.

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## GEOSYNTHETICALLY REINFORCED SOIL (GRS)

This PowerPoint presentation includes a summary of 40 years of geotechnical research in Geosynthetically Confined Soil (or Geosynthetically Reinforced Soil) retaining walls, bridge abutments, and open bottom box culverts. This research was performed by Colorado DOT, the US Forest Service, the Federal Highway Administration and several agencies and universities. Expenditures on this research effort exceeded 25 million dollars.

This research concluded that smaller, lighter inclusions on close spacing in granular soil produces stronger composite behavior than do heavier, stiffer elements on wider spacing. Full scale demonstrations show that variations in spacing of the inclusions approaches exponential factors in some cases. Closer spacing (12 inches or less) creates a Unique Composite wherein performance is not a sum of the components. MSE designs, conversely, are quasi-tieback in concept and where element contribution is considered.

These research findings led to development of a new suite of retaining walls and bridge abutments. The Federal Highway Administration and the Florida Department of Transportation are now supporting implementation of what the FHWA calls GRS-IBS bridge alternates. Numerous field constructions will be shown.

### **SPEAKER: ROBERT BARRETT, Board of Directors, Soil Nail Launcher, Inc. Landslide Solutions, LLC. and GeoStabilization, INC.**

Bob Barrett is a graduate of Marshall University. Bob worked for WVDOT and CDOT for over thirty years as a landslide specialist and as geotechnical manager for design and construction of Interstate 70 across the Colorado Rockies. Bob was Manager of Geotechnical Research for the Colorado DOT and for the Colorado Transportation Institute, was co-inventor of the Colorado Rockfall Simulation Program (CRSP), and received the 1991 Colorado Governor's award for creativity and innovation in government service. He conceived, funded and directed a variety of research projects including collapsing soils, swelling soils, lightweight fills, compaction grouting and extensive work with used tires. His emphasis was on reinforced soils and included collaborative projects with government agencies, national and international universities and subject matter experts. He chaired the Transportation Research Board Committee on Geosynthetics for 7 years with a major focus on writing the first MSE specifications. He also chaired the NCHRP Panel on Sealing Geotechnical Boreholes and was Chair of NCHRP Panel 12-59, dealing with design of GRS bridge abutments. Bob is currently a member of the NCHRP Project Panel to develop seismic guidelines for GRS bridge abutments. He continues to be a leading researcher in the Geotechnical area and holds patents for rockfall mitigation devices and Geosynthetically Confined Soil (GCS) retaining wall innovations. He and Al Ruckman have patents on Earthquake Wings for bridges and Scour Micropiles for Open Bottom Boxes and other applications. He was the former Manager of Bridge Design and Construction for Yenter Companies and he and Al were owners/founders of three design/build geotech construction companies. Bob and Al were the recipients of the 1998 IFAI international design award for the design and construction of a 55-ft high GCS® retaining wall in Grand County, Colorado.

They enjoy solving difficult problems. Together, they have presented technology transfer programs on GCS®, landslide mitigation, and rockfall control on 5 continents and have constructed GCS® walls and abutments across the globe.

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## **SNAKES, BIRDS, & WATER: Environmental Permit Compliance Tips & Tools**

The session is a panel of 3-4 speakers that will address the FDOT Erosion and Sedimentation Control Manual, water quality sampling, and protected species. The panel will present some of the new requirements, the Department's expectations, and some tools to assist in permit compliance.

### **SPEAKER: BRUCE HASBROUCK**

Bruce Hasbrouck is a Certified Environmental Professional with more than 30 years of experience in environmental permitting, construction management, permit compliance inspections, NEPA/PD&E assessments and documentation, mitigation and stormwater pond designs, wetland restoration projects, design/build projects, artificial reef design and permitting, wetland mitigation monitoring and maintenance management, seagrass surveys, and photo interpretation of wetlands. His environmental consulting experience includes roadways, bridges, airports, landfills, parks, solid waste transfer stations, gas pipelines, electric utilities, residential and commercial developments, fishing piers, and water projects in the US and Caribbean. He earned a BS in Marine Biology from the University of South Carolina and a MS in Management from National-Louis University.

### **SPEAKER: LARRY RITCHIE**

Larry Ritchie has been with the Florida Department of Transportation for 6 years and has worked in the State Construction Office as an Environmental Specialist for the past 4 years. His main areas of concentration include environmental issues associated with construction projects and pipe inspection and rehabilitation. Before working in the Construction Office, Larry worked in the Central Environmental Management Office as the Statewide Permitting and NPDES Coordinator. Prior to coming to Florida DOT, he worked for the Tennessee Department of Transportation handling environmental concerns related to construction and maintenance and spent six years with the Florida Department of Environmental Protection working in permitting, compliance and enforcement, and policy regarding wetlands, sovereign submerged lands and solid and hazardous waste.

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## **DBE/SMALL BUSINESS CERTIFICATION PROCESS**

### **SPEAKER: TERRY WATSON**

Terry V. Watson (Terry) serves as the DBE Program Specialist in the Equal Opportunity Office of the Florida Department of Transportation. In this role Mr. Watson is primarily responsible for working with the Disadvantaged Business Enterprise (DBE) Program in helping the Department and the construction industry achieve the states federal DBE goal. He also promotes the Departments DBE Program by marketing and communicating the Program to prime contractors and consultants throughout the state.

Mr. Watson moved to Florida in 2000, and previously served as the Bond Specialist for the Departments Construction Management Development and Bond Guarantee Programs (CMDP-BGP) administered by the Florida A&M University Small Business Development Center. He joined the Department of Transportation in 2002 in his current position.

Terry serves on the Florida Institute of Consulting Engineers (FICE) DBE subcommittee of the FICE Transportation Committee and also served on the Florida Transportation Builders Associations (FTBA) DBE subcommittee.

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## AGENCY COST EFFICIENCIES

### **SPEAKER: DAVID SADLER, P.E.**

David began his career with the Florida Department of Transportation in 1988 as a Professional Engineer Trainee working in the Jacksonville Construction Office. While in Jacksonville, David was promoted to Project Engineer where he spent the major of his career working on major bridge projects. In 1996 David was promoted to Resident Engineer. As Resident Engineer, he lead a staff of engineers and technicians in the contract administration of a variety of roadway and bridge projects. In 2002, David accepted the position of State Construction Engineer where he lead a staff of Engineering Specialists in assuring that the Department's district construction personnel administered the construction contracts in compliance with the contracts and with policies and procedures. In 2008, David was promoted to Director, Office of Construction where he now manages a staff of Engineers and Specialists in the development of policies and procedures necessary for proper contract administration.

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## NEW BRIDGE MATERIAL DESIGN OPTIONS

### **SPEAKER: CHRISTINE MIZIOCH (VICE PRESIDENT, ALTERNATIVE PROJECT DELIVERY, THE METRIC GROUP)**

Formerly with MassDOT for 20 years, Christine has recently joined the Florida based firm, the Metric Group as the Vice President for Alternative Project Delivery. With 20 years in the transportation industry, Christine has had the opportunity to work in a wide range of divisions within MassDOT and gain considerable knowledge about its operations, including planning, engineering, construction and maintenance. Christine has also had the opportunity to work with other state agencies such as the Executive Office for Administration and Finance and the Executive Office of Housing and Economic Development, as well as the environmental agencies and has an understanding of the corresponding roles each agency has with the others.

Prior to leaving MassDOT, Christine was responsible for the development and implementation of the Design Build Contracting Program. The program successfully completed several critical projects of which many received national awards. The success of the program aided MassDOT in achieving their goals of reducing project delivery times, save time and manage time by implementing innovations and to create streamlined processes for contract delivery. The program was also responsible for the construction of the first two heavy lift bridge projects in Massachusetts. Most notably Christine was the project director for the nationally recognized Fast 14 bridge project in Medford which demonstrated the ability to complete 14 bridges in 10 weekends on an Interstate that carries 200,000 vehicles a day. It was showcased by the Federal Highway Administration as an example of exceptional use of innovation and streamlined processes.

In addition, Christine was working to implement the use of Construction Manager/General Contractor as a procurement tool at MassDOT and has recently proposed the use of Lean Construction Technologies to further streamline design and construction, saving valuable time and cost on large transportation infrastructure projects. She also serves on a Transportation Research Board committee developing a guidebook for the use of Construction Manager/General Contractor procurement for horizontal construction.

Christine holds a Bachelor of Science in Civil Engineering from the University of Massachusetts. Her new role as Vice President for Accelerated Project Delivery with the Metric Group will continue to build on her past experience and open up opportunities for states to use Public Private Partnerships as a funding tool.

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## **CIVIL INTEGRATED MANAGEMENT (CIM)**

This session will consist of a presentation on the use of Civil Integrated Management technologies on a Western Wake Freeway project in Raleigh, NC.

### **SPEAKER: SHANNON SWEITZER, P.E. (Director of Construction, North Carolina Turnpike Authority)**

Shannon Sweitzer is a North Carolina native having grown up in the Raleigh area. He attended North Carolina State University and received a Bachelor's degree in Civil Engineering. Shannon began work with the NCDOT directly out of college as an Assistant Resident Engineer. During his 14 years with NCDOT he also held the positions of Resident Engineer, Roadway Construction Engineer for Division 5 and 8, State Pavement Construction Engineer, and State Roadway Construction Engineer. Shannon has been at the Turnpike Authority for 5 years as Director of Construction.

Shannon is a licensed engineer in North Carolina. He is active in TRB, being a member of both the Construction Management and Concrete Pavement Committees.

### **SPEAKER: RICHARD JULIANO**

Rich Juliano, a Certified Association Executive, is senior vice president for strategic initiatives at the American Road & Transportation Builders Association (ARTBA). As managing director of ARTBA's Contractors Division, the association's largest membership division, Rich is one of the nation's most visible advocates for transportation construction firms. He is ARTBA's chief liaison to its affiliated chapters, the U.S. Department of Transportation (especially the Federal Highway Administration), and other Executive Branch agencies. He staffs several ARTBA committees and serves as treasurer of its federal political action committee.

Prior to joining ARTBA in 2002, Rich served as White House Liaison at the U.S. Department of Transportation. For his service during and after the events of September 11, 2001, Secretary Norman Y. Mineta awarded him the Transportation 9/11 Ribbon.

Rich holds bachelors and law degrees from the University of Chicago. He is a graduate of the U.S. Chamber of Commerce's Institute for Organization Management. Rich is a native of Cleveland, Ohio, and currently resides in Vienna, Virginia, with his wife and three daughters.

### **SPEAKER: DAVID A. BALLARD (Project Manager)**

David is a graduate of The Georgia Institute of Technology in Atlanta and has 17 years of experience in heavy-highway construction with Granite Construction Company. As a student in Georgia Tech's Cooperative Program in the mid 1990's, he worked for Granite on several projects in the metro Atlanta area. David relocated to North Carolina in 1999 and has served in engineering and management roles on four different highway construction projects in the Raleigh-Durham area. Currently, David is a Project Manager for Raleigh-Durham Roadbuilders (a Joint Venture of Archer Western Contractors and Granite Construction Company) on the \$450MM Western Wake Freeway Project.

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## CONCRETE PAVING

### **SPEAKER: ANDRE SUTHERLAND, P.E.**

Mr. Andre Sutherland joined the FDOT in 2006 and currently serves as a Construction Project Manager in the Jacksonville Construction Office in District 2. His involvement on projects range from concrete pavement rehabilitation projects to the award-winning 2011 AASHTO I-10/I-95 Interchange project. He currently holds an undergraduate degree in Civil Engineering from George Mason University, an MBA from the University of Florida and is a registered PE in Florida.

### **Concrete Pavement Rehabilitation**

Andre Sutherland will discuss some of the best practices and the unique challenges associated with concrete pavement rehabilitation.

### **SPEAKER: SHARON GRIFFITHS, P.E. (FDOT Resident Engineer Palatka Construction)**

Sharon began her career with the Department 20 years ago as a Professional Engineer Trainee. She has worked as a Project Engineer/Manager in the Environmental Management Office, a Construction Project Manager and a Resident Engineer in the Lake City, Jacksonville and Palatka Construction Offices.

Sharon has been involved with many projects in District 2 including: State Road 9A Concrete Pavement, State Road 9B Concrete Pavement, I-95 Weigh-In-Motion Station, I-95 Agricultural Inspection Station, and many other concrete bridge structures. Sharon is a graduate of the University of Florida with a Bachelors of Science in Civil Engineering. Sharon is a Retired US Marine.

### **SPEAKER: ROB HANSGEN, P.E.**

Rob Hansgen is employed with ETM out of Jacksonville Florida and is the Senior Project Engineer on the SR9B new alignment project. He started his career with the FDOT in which he spent 12 years working for the FDOT District 2 – Jacksonville Construction Office. Rob is a graduate of the University of Florida and his construction experience focuses primarily on bridge and major highway construction aspects.

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## L.E.S.S.

### **SPEAKER: CHESTOR HENSON, P.E.**

Chester has 45 years of transportation experience in the areas of planning, design, construction, and management of highway, bridge, and general civil engineering projects and 14 years of management of civil engineering firms or county agencies. His experience also includes project manager and senior designer for numerous highway, bridge, and general civil projects for Federal, State, Municipal, and County agencies, as well as private clients.

Chester presently coordinates and develops updates and improvements to the Design Standards, Plans Preparation Manual and Specifications in the areas of signing & pavement marking, signalization and highway lighting. He also teaches the Interactive Intersection Design Class and represents the Department on various industry committees.

### **SPEAKER: FRED HEERY, P.E. (Deputy State Traffic Operations Engineer)**

Fred is a graduate of Drexel University with a Bachelor of Civil Engineering and received a Master of Civil Engineering degree from Villanova University. Fred began his career with the New Jersey Department of Transportation and served in the Construction & Maintenance Division for 13 years followed by serving in the Capital Program Management Division. Fred then joined a local agency in Florida and oversaw countywide traffic signal operations. After that, Fred went into consulting and was System Manager for the Pasco County ATMS and for the Pinellas Countywide ATMS systems. Fred joined FDOT in 2005 and oversees the Operations Section of the FDOT Traffic Engineering and Operations Office in Tallahassee.

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