

FIND A WAY, MAKE A WAY

Exemplify Team Leadership

TRANSPORTATION TRACK

ACPA 2019 Pipe School and Pipe Show
January 7 - 10, 2019 Arlington, TX
University of Texas at Arlington



**American
Concrete Pipe
Association**

ACPA 2019 Pipe School

Monday, January 7th, 2019 – Thursday, January 10th

TRANSPORTATION TRACK

Asset Management, Patrick Diviney, P.E. (City of Dallas Public Works Department)

Mr. Patrick Diviney is the Assistant Director – SRD for the City of Dallas Public Works Department. Asset management is the strategic and systematic process of operating, maintaining, and improving physical assets with a focus on engineering and economic analysis based upon quality information. Asset management helps to identify a structured sequence of maintenance, preservation, repair, rehabilitation, and replacement actions that will achieve and sustain a desired state of good repair over the lifecycle of the assets at minimum practical cost. Mr. Diviney will share the City of Dallas Public Works Department's Asset and Data Management Plan, which provides attendees with a tool for making infrastructure investments and sound resource utilization decisions. This class introduces asset and data management guiding principles and key components of asset and data management.

Bridge Inspection, Joe Echelle, P.E./ Shawn Davis (Oklahoma Turnpike Authority)

Mr. Joe Echelle is the Assistant Executive Director for Maintenance, Engineering, and Construction of the Oklahoma Turnpike Authority. Mr. Shawn Davis is the Director of Construction at the Oklahoma Turnpike Authority. The major goal of this class is to teach the skills of practicing bridge inspectors in fundamental visual inspection techniques; review the background knowledge necessary to understand how bridges function; communicate issues of national significance relative to the nations' bridge infrastructures; re-establish proper condition and appraisal rating practices; and review the professional obligations of bridge inspectors.

Bridge/Culvert Replacement Strategies, Craig Stevens, P.E. (Delaware DOT)

Mr. Craig Stevens heads the Bridge Design Section for Delaware DOT, where he has worked since 2003. This course will define what constitutes a "bridge" as far as DelDOT is concerned and show the impact that the failing corrugated metal pipes (CMPs) have on our bridge inventory. The course will then illustrate and define the different types of failure we have seen with regards to our CMP inventory. After

discussing the issue, this course will demonstrate how DelDOT tackled the issues with the hundreds of failing CMPs. The course will show how we changed policies in our Bridge Design Manual and our Bridge Inspection Manual such that the issue will not occur again in the future. Lastly, it will outline the different contracting methods and construction methods we employed to replace the failing CMPs.

Maintenance Condition Assessment, George Connor, P.E. (Alabama DOT)

Mr. George Connor began his career with the Alabama DOT in 1992 as a Bridge Rating and Load Testing engineer. He was promoted to Deputy Director of Operations on December 1, 2016. A quality management system depends upon good data, therefore the information collected must be consistent and dependable. Developing a method for collecting roadway/drainage maintenance information in order to assess the overall condition of roadways/drainage assets provides the data to create a maintenance condition assessment. A maintenance condition assessment allows public agencies to identify required funding levels, a strategy for prioritizing maintenance conditions and areas of excessively high or low maintenance.

National Infrastructure Report Card, Travis Attanasio, P.E. (City of Haslet)

Mr. Travis Attanasio is the ASCE Texas Section Past Vice-President for Professional Affairs and, as such, oversees the Infrastructure Report Card committee. ASCE advocates infrastructure and environmental stewardship and has developed an Infrastructure Report Card since 1998. The most current national Report Card, published in March 2017, indicated an overall grade of "D+" across 16 categories. ASCE Texas Section grades the state's infrastructure an overall grade of "C-".

National Standards Update, Josh Beakley, P.E. (American Concrete Pipe Association)

Mr. Josh Beakley currently serves as the Vice President of Engineering for the American Concrete Pipe Association, where he has worked for over twenty years. Ours is an everchanging world, and the standards utilized for the manufacture, installation, and design of buried pipe are changing with it. Some changes are comprised of revisions to existing pipe standards, while other changes in the industry involve totally new standards. This class will review recent changes to national standards that have the most effect on the buried pipe industry.

Post Installation Inspection, Alena Mikhaylova, Ph.D. (Rinker Materials)

Alena Mikhaylova is a Region Engineer for Rinker Materials covering South Texas and Louisiana. It's in the owner's best interest to know that all pipes in their system have been properly installed and were not damaged such that the pipe system is not compromised. Post Installation Inspection (PII) provides the owner the information needed to determine whether proper installation occurred prior to project close-out or final acceptance.

Project Delivery Methods, Sarah Matin, P.E. (Rinker Materials)

Sarah Matin is a State Engineer for Rinker Materials where she provides technical assistance across the state of Florida. The design of a project can vary greatly based on schedule and contract requirements. It is important to understand how contractor assumed risk also plays a part in design and required deliverables. Underground infrastructure is a critical element in large scale projects, especially with the accelerated schedules associated with design build contracts. It is important to understand how construction sequence, right of way availability, design changes, utility relocation, permitting, contract requirements and the all-encompassing unforeseen can affect underground infrastructure and component dependent systems.

Proper Pipe Installation and Design, Walt Catlett, P.E. (American Concrete Pipe Association) and Derek Light, P.Eng. (Rinker Materials)

Mr. Walt Catlett is a Region Engineer for ACPA covering a multi-state region. Mr. Derek Light is a Region Engineer for Rinker Materials covering North Texas and Oklahoma. As budgets for drainage structure replacements are decreased, the importance of proper culvert installation increases. Any organization capable of properly installing and maintaining storm drainage pipe provides a valuable service to the citizens they support. During this class, attendees will review the proper design, installation, and maintenance practices of storm drainage pipe. Students will review current industry standards for both flexible and rigid pipe options.

Quality Assurance/Quality Control, Paul Krauss, P.E. (WJE)

Mr. Paul Krauss is a Principal at WJE where his consulting activities include all aspects of concrete construction, rehabilitation and certification. A comprehensive and established Quality Assurance/Quality Control Audit Program is essential to a successful final outcome. A good

QA/QC program begins in the early phases from pre-planning to delivery of the final product. While plant managers are viewed as the key to a good quality product, all personnel involved in the all phases of the production of precast concrete products are expected to provide quality work. This class highlights recommended procedures that State Highway Agency (SHA) or their representative can follow when shadowing the American Concrete Pipe Association (ACPA) QCast Program plant audits. It is understood that each SHA may have special local requirements based on their unique situation and resources. This guide is intended to form a baseline review that can be applied nationally. The ACPA certifies pipe and precast facilities through a quality program that requires the plants to conform to the industry standard ACPA QCast Plant Certification Manual. Plants are subject to annual third-party audits as part of this certification program.

Roadway Drainage, Chris Dailey, P.E. (Arkansas Department of Transportation)

Chris Dailey is a Senior Research Engineer in the Research Division of the Arkansas Department of Transportation. Local road agency maintenance workers who understand the ways that proper asset and data management practices assist in maintaining and upgrading drainage features on their road system help avoid an unsafe condition. Common roadway drainage problems that cause unsafe travel conditions can be eliminated with effective inspection methods and corrective action. These methods will strengthen a road agency's asset management program. Safety on streets and highways, bicycle trails, and sidewalks is essential to motorists, bicyclists, and pedestrians. Drainage systems that remove storm water run-off from streets and highways are an integral feature of a safe system. Erosion along the roadway can also contribute to the severity of a crash or inundate crashworthy systems such as breakaway sign supports. Even headwalls, pipe ends and grates on drop inlets and pipe openings need to be safety treated when they are within the area an errant motor vehicle or bicycle can reach.



TRANSPORTATION TRACK SCHEDULE

Monday January 7, 2019		Tuesday January 8, 2019		Wednesday January 9, 2019	
Room 106		Room 106		Room 106	
8:00AM - 9:30 AM	Optional Plant Tour	7:00 AM - 4:00 PM	Registration	6:30 AM - 9:00 AM	Plant Tour
9:00 AM - 5:30 PM	Registration	8:00 AM - 9:55 AM	Proper Pipe Installation + Design - Walt Catlet, P.E./Derek , P.Eng	9:35 AM - 11:00 AM	Maintenance Condition Assessment - George Conner, P.E. (ALDOT)
1:30 AM - 2:45 PM	Opening Ceremonies	10:00 AM - 12: 00 PM	Post Installation Inspection - Alena Mikhaylova, Ph.D	11:00 AM - 11:55 AM	Quality Assurance/Quality Control - Paul Krauss, P.E. (WJE)
3:10 PM - 4:30 PM	National Infrastructure Report Card - Travis Attanasio, P.E. (City of Haslet)	12:00 PM - 1:00 PM	Pipe Show Lunch	11:55 AM - 12:55 PM	Pipe Show Lunch
4:30 PM - 5:30 PM	Introduction to Asset Management - Patrick Diviney, P.E. (City of Dallas Public Works Department)	1:00 PM - 1:55 PM	Roadway Drainage - Chris Dailey, P.E. (Arkansas Department of Transportation)	1:00 PM - 1:55 PM	National Standards Update - Josh Beakley, P.E.
5:30 PM - 7:00 PM	Pipe Show Reception	2:00 PM - 2:55 PM	Bridge Inspection - Joe Echelle, P.E., & Shawn Davis, Oklahoma Turnpike Authority	2:00 PM - 3:20 PM	Bridge/Culvert Replacement Strategies - Craig Stevens, P.E. (Delaware DOT)
		2:55 PM - 3:55 PM	Project Delivery Methods - Sarah Matin, P.E.	3:30 PM - 6:00 PM	Pipe Show Reception
		3:55 PM - 4:50 PM	Technical Poster Sessions		
		5:00 PM - 7:00 PM	Pipe Show Reception		

The Education Committee has seen an increased level of participation by DOT and public works agencies over the last couple years, which has inspired them to add the “Transportation Track” to this year’s agenda. The Transportation Track combines the experience of DOT and public work’s professionals with our industry’s transportation professionals with three days of training beneficial to DOT, public works, and AE transportation professionals.

For more information and to register, please visit: http://members.concretepipe.org/web/Online/Events/Event_Display.aspx?EventKey=PIPE2019