

2017 PROFESSIONAL DEVELOPMENT

THURSDAY, SEPTEMBER 28, 2017	
Room 201A	Track 1: Civil & Environmental
7:30 – 9:30a	Breakfast and Plenary Session
9:30 – 10:00a	Break
10:00 – 10:50a	TDEC Engineering Update / Water Reuse Policy, George Garden, PE, TN Dept of Environment & Conservation
10:50 – 11:15a	TDEC Regulatory Update, David Money, TN Dept of Environment & Conservation
11:15 – 11:40a	One Water = Water Reuse and Integrated Water Management, Darren Gore, PE, City of Murfreesboro
11:45 – 1:00p	TEF Luncheon
1:00 – 1:30	Break
1:30 – 1:55p	Potential for Compensatory Mitigation through Integrated Urban Stream Restoration and Stormwater Management, Dr. John S. Schwartz, PE, Dr. Karina Bynum, PE, TN Dept of Environment & Conservation
1:55 – 2:20p	Breaking New Ground: Implementation of the Largest Peracetic Acid Disinfection System in the US, Cayce Grissom, PE, Scott Morgan, PE, City of Memphis
2:20 – 3:10p	Chattanooga WPA - Innovative Solutions for Rehabilitation Plan Development, Bradley Heilwagen, PE, AMEC Foster Wheeler
3:10 - 3:40p	Break
3:40 – 4:05p	The Reality of Green Infrastructure, Kelli Richardson, PE, LDA Engineering
4:05 – 5:00p	Alcoa Duck Pond Walking and Biking Path: The Evolution of a Project, Steve Drummer, PE, LDA Engineering

Room 201B	Track 2: Geotechnical
7:30 – 9:30a	Breakfast and Plenary Session
9:30 – 10:00a	Break
10:00 – 10:25a	Investigation and Repair of Large Sinkhole, Ray Tant, PE, Shield Engineering
10:25 – 10:50a	Numerical Modelling for Novel Geotechnical Applications, John Barrett, PE, Geosyntec Consultants
10:50 – 11:15a	Geotechnical Challenges and Pile Testing at Kinder Morgan Elba Island LNG Project, Dr. Guoming Lin, Terracon Consultants, Inc.
11:15 – 11:40a	Chemical Modification of Soils, Dale Andrews, Carmeuse Lime & Stone
11:45 – 1:30p	TEF Luncheon
1:00 – 1:30p	Break
1:30 – 2:20p	Mosul Dam, Vanessa Bateman, PE, PG, U S Army Corps of Engineers
2:20 – 2:45p	Field Performance of Piles of an Integral Abutment Bridge, Khalid Alshibli, University of TN
2:45 – 3:10p	Use of Resistivity Imaging and Seismic Methods for HDD Projects, Warren Dean, Draper Aden Associates
3:10 – 3:40p	Break
3:40 – 4:10p	Automated Instrumentation, Matt Bullard, PE, TTL, Inc.
4:10 – 5:00p	Foundation Optimization for the New Atlanta Braves Mixed-use Complex, Matthew Hammett, PE, Hayward Baker, Inc.

Room 202A	Track 3: Transportation
7:30 – 9:30a	Breakfast and Plenary Session
9:30 – 10:00a	Break
10:00 – 10:50a	CVAV: Today, Tomorrow, Tennessee, Brad Freeze, PE, TN Dept of Transportation and Steven Field, PE, Stantec Consulting Services
10:50 – 11:15a	A Better Honky Tonk Sidewalk, Jeff Hammond, PE, Metro Nashville Public Works
11:15 – 11:40a	Innovative Applications in Bicycle Facility Design – Southern Style, Brandon Taylor, PE, RPM Transportation Consultants, a Division of KCI Technologies, Inc.
11:45 – 1:00p	TEF Lunch (0.5 PDH)
1:00 – 1:30p	Break
1:30 – 1:55p	IMPROVE Act Update, Steve Allen, TN Dept of Transportation
1:55 – 2:20p	Atlanta is Burning... and Other Tall Tales from GDOT's RTOP Program, Sean H. Coleman, PE, PTOE, IMSA Level II and Jonathan M. Moore, P.E., IMSA Level II, Kimley-Horn and Associates.
2:20 – 3:10p	Missing Link; Section E of the Foothills Parkway, Thomas Meador, PE, Lane Construction
3:10 – 3:40p	Break

2017 PROFESSIONAL DEVELOPMENT

THURSDAY, SEPTEMBER 28, 2017 (CONTD)

Room 202A	Track 3: Transportation (Contd.)
3:40 – 4:05p	TDOT Construction Update, Will Reid, PE and Lori Lange, PE, TN Dept of Transportation
4:05 – 5:00p	I-124 in Chattanooga. Jim Floyd, PE, Volkert, Inc.
Room 202B	Track 4: Engineering Management - A
7:30 – 9:30a	Breakfast and Plenary Session
9:30 – 10:00a	Break
10:00 – 10:50a	Engineering Practice in the Midst of Changing Federal Rules & Regulations, David Draper, Lewis Thomason
10:50 – 11:40a	Designing Corporate Social Impact to Reverse Burnout, Retain Talent, and Grow, Peter Atherton, ActionsProve, LLC
11:45 – 1:00p	TEF Luncheon
1:00 – 1:30p	Break
1:30 – 2:20p	“Whew – Glad That Project is Over! (Or Is It?): Avoiding Costly Project Closeout Mistakes,” Vic McConnell, Smith Cashion Orr
2:20 – 3:10p	Top Ten Metrics for AE Firms, Megan Miller, Delta
3:10 - 3:40p	Break
3:40 – 4:30p	Building Great Company Culture, James Fields, Concept Technology Inc.
4:30 – 5:00p	QBS Case Studies, Mickey Sullivan, PE, Gresham, Smith and Partners & Kasey Anderson, ACECTN/TSPE

Room 202C	Track 4: Engineering Management - B
7:30 – 9:30a	Breakfast and Plenary Session
9:30 – 10:00a	Break
10:00 – 10:50a	Finding and Protecting “Keepers” when Fishing for Talent, Dan Ryan, Ryan Search & Consulting
10:50 – 11:40a	Tennessee Has Talent (EEA Tips), Angie and Harold Cannon, PE, Cannon & Cannon, Inc.
11:45 – 1:00p	TEF Luncheon
1:00 – 1:30p	Break
1:30 – 2:20p	Ownership Transition in an Engineering Firm, Tim Jamison, Prairie Capital

Room 205A	Track 5: Electrical, Mechanical & Industrial
7:30 – 9:30a	Breakfast and Plenary Session
9:30 – 10:00a	Break
10:00 – 10:50a	TVA’s Energy Right Solutions Program – Jeremy Cotton, TVA
10:50 – 11:40a	Changes in the 2018 Revision of NFPA 70E and Why They Matter; Tommy Northcott, PE, CMRP, Northcott Consulting
11:45 – 1:00p	TEF Luncheon
1:00 – 1:30p	Break
1:30 – 2:20p	Vicksburg 115kV Improvement Project; Anthony Groft, PE, Power Consulting Associates
2:20 – 3:10p	Paying it Forward: Engineering in a Humanitarian Context, Dr. A. Fort Gwinn, Jr., PE, Dr. Kerry Patterson & Dr. Kirstin Dodson Lipscomb University
3:10 - 3:40p	Break
3:40 – 4:10p	Reliability Centered Maintenance: The Cornerstone of Electrical Safety, Tommy Northcott, PE, CMRP, Northcott Consulting
4:10 – 5:00p	Center Hill - Aging Infrastructure and the Electrical/Mechanical Engineer in the U.S. Army Corps of Engineers, Rob Baulsir, PE, U S Army Corps of Engineers

Room 205B	Track 6: Structural
7:30 – 9:30a	Breakfast and Plenary Session
9:30 – 10:00a	Break
10:00 – 10:50a	Strength Design of Masonry: An Introduction and Benefits over ASD, Dr. Richard Bennett, University of TN, Knoxville
10:50 – 11:15a	Laser Metrology of Steel Girder Splice Connections, Dr. Nicholas Wierschem, University of TN, Knoxville
11:15 – 11:40a	Stiffness Reduction Within the Direct Analysis Method-Composite Design, Dr. Mark Denavit, University of TN, Knoxville
11:45 – 1:00	TEF Luncheon
1:00 – 1:30	Break

2017 PROFESSIONAL DEVELOPMENT

1:30 – 1:55p	Bridge Investigations at State Fairgrounds – Nashville, Dr. Catherine Armwood, TN State University
THURSDAY, SEPTEMBER 28, 2017 (CONTD)	
Room 205B	Track 6: Structural (Contd)
1:55 – 2:20p	3D Printed Nanocomposites for Material State Monitoring Applications, Mr. Cole Brubaker, Vanderbilt University
2:20 – 3:10p	3D Printing with Cementitious Materials, Dr. Florence Sanchez, Vanderbilt University
3:10 – 3:40p	Break
3:40 – 4:05p	Prestressed Concrete: The Good, The Bad, and The Ugly, Mike Sheridan, PE, Allen & Hoshall
4:05 – 4:15p	TNSAVE Update, Rick Heckel, PE, Ardent Geotechnical Consultants
4:15 – 5:00p	Changes to the AISC Code of Standard Practice, Mr. Tim Bradshaw, American Institute of Steel Construction
FRIDAY, SEPTEMBER 29, 2017	
Room 201A	Track 1: Civil & Environmental
7:30 – 8:50a	Awards Breakfast
9:00 – 9:50a	Can Bugholes Be Evaluated Objectively on Off-the-form Concrete Surfaces, Ward R. Maish, PE American Society of Concrete Contractors
9:50 – 10:20a	Break
10:20 – 11:10a	Design of Universal Membrane Filtration System, Ron Maness, PE, h2o Innovations
11:10 – 12:00p	City of Oak Ridge Equalization Basin Design Challenges, Steve Bostic, PE LDA Engineering
Room 201B	Track 2: Geotechnical (Friday Sessions)
7:30 – 8:50a	Awards Breakfast
9:00 – 9:25a	Remedial Grouting at Chickamauga Lock, Nick Bachand, E.I.T, Rembco Geotechnical Contractors
9:25 – 9:50a	Fast Fix 8: I-24 Eastern side of The Nashville Loop, Aaron Crowley, PE, K.S. Ware and Associates, LLC
9:50 – 10:20a	Break
10:20 – 10:45a	Memphix 4: I-240 Bridge Replacement CMGC, Dr. Ashraf Elsayed, PE, Geotechnology, Inc & Jake Williams, PE, Alfred Benesch & Company
10:45 – 11:10a	Capitol Connector Tunnel, Chip Howorth, Stone & Howorth, PLC
11:10 – 12:00p	Full Depth Reclamation with Portland Cement, Jessie Anna Boone, Southeast Cement Promotion Association
Room 202A	Track 3: Transportation
7:30 – 8:50a	Awards Breakfast
9:00 – 9:25a	MNAA - BNA Vision Update, Robert Ramsey, PE, Metro Nashville Airport Authority
9:25 – 9:50a	MTA Transit Update, Steve Bland, Nashville Metropolitan Transit Authority/Regional Transportation Authority of Middle Tennessee
9:50 – 10:20a	Break
10:20 – 11:10a	SR 299 over I-24 GDOT ABC, Brian Charlesworth, PE, Wright Brothers Construction and Steve Jarrett, PE, WSP
11:10 – 12:00p	I-240 at Poplar Avenue CMGC, Sammie McCoy, PE, Alfred Benesch & Company
Room 202B	Track 4: Engineering Management - A
7:30 – 8:50a	Awards Breakfast
9:00 – 9:50a	Design and Construction Documents, Dale Crow, Crow Friedman Group A Risk Strategies Company & David Garst, Lewis Thomason
9:50 – 10:20a	Break
10:20 – 11:10a	AIA 2017 Documents: Changes in Owner/Architect Agreements, Andrew Mendelson, FAIA, Berkley Design Professionals Underwriters
11:10 – 12:00p	AIA 2017 Documents: Changes in Owner/Architect Agreements, Andrew Mendelson, FAIA, Cont'd,
12:00 – 1:30p	Friday Lunch
1:30 – 2:20p	Client Development and the Technical Profession – Who, Me? Donna Corlew, FSMPS, CPSM, C*Connect
2:20 – 3:10p	The Rules, The Law, and Avoiding Trouble, Shane McNeil, Tellus Law

2017 PROFESSIONAL DEVELOPMENT

FRIDAY, SEPTEMBER 29, 2017 (CONTD:)

Room 202C	Track 4: Engineering Management - B
7:30 – 8:50a	Awards Breakfast
9:00 – 9:50a	Building a Professional Brand On-Line, Deborah Varallo, Varallo Public Relations
10:20 – 11:10a	Cybersecurity for Engineers, Scott Augenbaum, Federal Bureau of Investigation
11:10 – 12:00p	Catch Me I'm Falling – Fall Protection for Engineers, Josh Hughes, PE, Hughes Energy

Room 205A	Track 5: Students
7:30 – 8:50a	Awards Breakfast
9:00 – 9:25a	Bridge Investigations at State Fairgrounds – Nashville, Dr. Catherine Armwood, TN State University
9:25 – 9:50a	Innovative Applications in Bicycle Facility Design – Southern Style, Brandon Taylor, PE, RPM Transportation Consultants, a Division of KCI Technologies, Inc.
10:20 – 11:10a	Foundation Optimization for the New Atlanta Braves Mixed-use Complex, Matthew Hammett, PE, Hayward Baker, Inc.
11:10 – 11:35a	Investigation and Repair of Large Sinkhole, Ray Tant, PE, Shield Engineering
11:35 – 12:00p	Environmental Challenges During On-Going Construction at St. Jude Children's Research Hospital, Memphis, Wesley Goodnight, EnSafe Inc.
12:00 – 1:30p	Friday Lunch
1:30 – 3:30p	Student Competition

FRIDAY, SEPT 29 – AFTERNOON SPECIAL SESSIONS	
Room 202A	
1:20-4:00 p	TDOT Partnering Quality Improvement Working Groups
Room 202C	
1:50-4:00 p	AE Town Hall Meeting

* Exhibit Area open 7-12:00 Noon in Grand Ballroom A during professional development