



PDH BOOT CAMP

Presented by

The Engineers' Society of Western Pennsylvania
and the American Society of Civil Engineers | Pittsburgh Section

Thursday, August 22, 2019 | 7:30 A.M. – 4:30 P.M.

Pittsburgh Engineers' Building | 337 4th Avenue | Pittsburgh, PA 15222



PDH BOOT CAMP

The Engineers' Society of Western Pennsylvania (ESWP) and the Pittsburgh Section of the American Society of Civil Engineers (ASCE) is pleased to present our biennial "PDH Boot Camp." This day-long event affords attendees the opportunity to earn professional development hours (PDH's), offered under three concurrent breakout sessions. Attendees may attend sessions from any track. Each and every session is approved for a PDH credit by ESWP's Continuing Education Committee. ESWP is recognized as an approved Continuing Education Provider by New York State and the State of Florida Board of

SURVEY EVALUATIONS

As this is our second PDH Boot Camp, we would sincerely appreciate your honest feedback on the the event to make this a great Pittsburgh tradition! Following the PDH Boot Camp, a survey will be emailed to you - please take a few minutes to provide your feedback.

icensure.

PDH CERTIFICATION

All sessions are approved for a professional development hour by ESWP's Continuing Education Committee. Upon request, attendees will receive a Certificate of Attendance following the event, by e-mail. To obtain your Certificate of Attendance, attendees are required to submit a "PDH Request Form" indicating which sessions you attend. A PDH Request Form is included in your registration materials, and/or can be downloaded from the ESWP website following the PDH Boot Camp. For credit with New York State, attendees must sign in and out of each session they attend (Please note that ESWP cannot provide certification for those who do not comply with this New York State requirement.)

SPEAKER BIOS & PRESENTATIONS

Biographical information of our presenters can be found on the Boot Camp webpage, found here: <https://eswp.com/about/bootcamp/boot-camp-bios/> Where permissible, presentations will be posted to our website following the event.

SCHEDULE-AT-A-GLANCE

EARLY BIRD "BONUS" PRESENTATIONS (.5 PDH)			
	MAIN DINING ROOM, FLOOR 2	ROOM 302, FLOOR 3	ROOM 301, FLOOR 3
7:30 A.M.	Engineering Ethics and Professional Practice, Jim Hamilton, P.E., Esq., GAI Consultants, Inc., Homestead, PA	Evaluating the Air Quality Benefits Of the Healthy Ride Bikeshare System in the Pittsburgh Region... Mark Magalotti, Ph.D., P.E., University of Pittsburgh, Pittsburgh, PA	Ecological Considerations for Site Development Projects, Daniel A. Maltese, Civil & Environmental Consultants, Inc., Pittsburgh, PA
	TRANSPORTATION TRACK: MAIN DINING ROOM, FLOOR 2	WATER & WASTEWATER TRACK: ROOM 302, FLOOR 3	INDUSTRIAL TRACK: ROOM 301, FLOOR 3
8:00 A.M.	A New Bridge over the Oregon Inlet, Outer Banks, Nick Burdette, P.E., HDR, Pittsburgh, PA	Inspection to Insight: Robotic Condition Assessment, Matt Horton, RedZone Robotics, Pittsburgh, PA	Pump System Reliability, Charles Gerbe, Total Equipment Company, Pittsburgh, PA
9:00 A.M.	Phased Replacment of Two-Span Closed Spandrel Concrete Arch Bridge, Keith Michael, P.E., SAI Consulting Engineers, Inc.	Linings, Wet Well & Manholes - Immersion Service Technology Tim Bauman, Sherwin Williams, Warrendale, PA	High Performance Maintenance Coatings for Industrial and Decorative Floors, Steven Reinstadtler, Covestro, Pittsburgh, PA
10:00 A.M.	Bridge Management and Maintenance, Andrew Bell, P.E. and Chris Ciesa, P.E. PennDOT, Pittsburgh, PA	Green Infrastructure Opportunities and Challenges, Sam Shamsi, ASCE-Pittsburgh, Pittsburgh, PA	Lessons Learned in Engineering, Design, Manufacturing and Construction from 50 Years of Failure Experience, Bill O'Donnell, O'Donnell Consulting Engineers, Bethel Park, PA
11:00 A.M.	South 10th Street Bridge Rehabilitation, Stan Nalitz, P.E., AECOM, Pittsburgh, PA	Breaking Down PFAS as an Emerging Contaminant, Brent Alspach, P.E., BCEE, Arcadis, Carlsbad, CA	Environmental Concerns and Project Engineering: Myth, Mystery and Motivation E. Joseph Duckett, Ph.D., P.E., SNC-Lavalin (retired), Pittsburgh, PA
12:00 Noon	Volunteering and Problem Solving Around the World, Dennis Mialki, Engineers Without Borders/All Hands and Hearts, Tarentum, PA		
	TRANSPORTATION TRACK: MAIN DINING ROOM, FLOOR 2	TECHNOLOGY TRACK: ROOM 302, FLOOR 3	LEGAL & ETHICS TRACK: ROOM 301, FLOOR 3
1:30 P.M.	Transportation Analysis Tools Which to Choose? Jessica Belowich, P.E., PTOE, Michael Baker International, Moon Township, PA	Emerging Technologies in Engineering and Construction, Rob Sinclair, Civil & Environmental Consultants, Inc., Pittsburgh, PA	Sex Discrimination in the Engineering Workplace, Catherine S. Loeffler, Houston Harbaugh, Pittsburgh, PA
2:30 P.M.	In-Depth Finite Element Analysis of the Seventh Street Self-Anchored Suspension Bridge, Aaron Colorito, P.E., C.B.S.I., Michael Baker International, Moon Township, PA	How to "Break" Your Data and Iron Out Those Stair-Steps! Kenneth Crawford, P.E., Civil Engineering Consultant, New Kensington, PA	It's a Matter of Ethics, Nicole Mangino, Oswald Companies, Cleveland, OH
3:30 P.M.	Connected Vehicles 101, Jim Katsafanas, P.E., PTOE, Michael Baker International, Moon Township, PA	Cybersecurity for Critical Infrastructure like Waste Water plants or Airports, Suresh Ramanathan, KORYAK, Pittsburgh, PA	Pennsylvania Separations Act; Submittal Review and Approval; and, Intelligent Project Communication. David Scotti, Esq., Joe Hrabik, P.E., Esq., Scotti Law Group, Pittsburgh, PA
4:30 P.M.	PDH Boot Camp Concludes - Optional Social Hour Cash Bar		

EARLY BIRD SESSION 1

MAIN DINING ROOM - FLOOR 2

7:30 - EB1: ENGINEERING ETHICS AND PROFESSIONAL PRACTICE

Jim Hamilton, P.E., Esq., GAI Consultants, Inc., Homestead, PA

Join us for a half hour, fast paced engineering ethics problem solution-oriented program based on the Pa Engineering Code of Ethics. The focus will be on discussing analyzing several brief ethical scenarios in the context of the applicability of the Pa Code of Ethics contained in the Pa Professional Engineering Regulations. Interactive audience participation will be welcomed.

TRANSPORTATION TRACK

MAIN DINING ROOM - FLOOR 2

8:00 - TR1: A NEW BRIDGE OVER THE OREGON INLET, OUTER BANKS

Nick Burdette, P.E., HDR, Pittsburgh, PA

Traveling the scenic North Carolina Outer Banks on NC Highway 12 requires crossing Oregon Inlet, one of the most dangerous inlets on the Atlantic coast, where treacherous currents, constantly shifting bathymetry, and violent storms are normal occurrences. Since its completion in 1962, the Herbert C. Bonner Bridge served as that critical link between Hatteras and Bodie Islands. Unfortunately, the Bonner Bridge has suffered from severe scour and deterioration in the harsh marine environment, and has required nearly continual maintenance, repair, and retrofit. In 2011, NCDOT awarded a design-build contract to replace the bridge, requiring a 100-year service life, design for up to 84' of scour, and minimal environmental impacts. The associated design and construction challenges created opportunities for innovation and creativity. The resulting 2.8 mile long bridge features extensive use of precast concrete construction for quality, durability, economy, and constructability, a first-of-its-kind driven pile foundation verification method, and innovative, environmentally-sensitive construction approaches.

9:00 - TR2: PHASED REPLACEMENT OF TWO-SPAN CLOSED SPANDREL CONCRETE ARCH BRIDGE

Keith Michael, P.E., SAI Consulting Engineers, Inc.

The design and construction of the replacement of a two-span concrete arch bridge over the Stonycreek River in Johnstown, PA required phased arch removal and construction. A diamond wire saw was used to cut the arch. Extensive coordination with the US Army Corps of Engineers was required since the bridge spans a Local Flood Protection Project built by the USACE after the 1936 flood. Presentation includes discussion of causeway design. Integral abutments using micropiles were utilized. Coordination with adjacent property owners including the Johnstown Area high school and numerous utilizes was also required.

10:00 - TR3: BRIDGE MANAGEMENT AND MAINTENANCE

Andrew Bell, P.E. and Chris Ciesa, P.E., PennDOT, Pittsburgh, PA

Beyond Design and Construction: Managing our Bridges – a brief overview how bridge analysis, routine maintenance, and asset management factor into the transportation network

11:00 - TR4: SOUTH 10TH STREET BRIDGE REHAB

Stan Nalitz, P.E., AECOM, Pittsburgh, PA

The Philip Murray (South Tenth Street) Bridge is a suspension bridge with a main span length of 725 feet. Built in 1933, the structure has a total length of 1,275 feet and links the City of Pittsburgh with its Southside communities.

The presentation will discuss methods and testing used to inspect, analyze and develop a strategy for the rehabilitation. AECOM conducted a thorough in-depth inspection, including an internal cable inspection, to accurately identify the exact location, extent, overall dimensions, and type of each necessary repair. Based on the results of the field inspection, materials testing program, and structural analyses, a comprehensive plan was developed that presents the evaluations and repair recommendations.

One of the key elements of this structural rehabilitation is the inspection, analysis, and rehabilitation of the suspension cables. The presentation also discusses the decision making process for cable preservation. The presentation will highlight design considerations and construction of the dehumidification system of both the anchorage and main cables. The construction

was undertaken in two phases. Phase 1 was completed in 2015. Phase 2 is being completed in 2019.

EARLY BIRD SESSION 2

ROOM 302 - FLOOR 3

7:30 - EB2: EVALUATING THE AIR QUALITY BENEFITS OF THE HEALTHY RIDE BIKESHARE SYSTEM IN THE PITTSBURGH REGION

Mark Magalotti, Ph.D., P.E., University of Pittsburgh, Pittsburgh, PA

Healthy Ride Bike Share Research Project Presentation Engineers Society of Western Pennsylvania: Evaluating the Air Quality Benefits Of the Healthy Ride Bikeshare System in the Pittsburgh Region and the Oakland section of Pittsburgh, Pennsylvania And Developing a Methodology for Predicting Benefits

WATER TRACK

ROOM 302 - FLOOR 3

8:00 - W1: INSPECTION TO INSIGHT: ROBOTIC CONDITION ASSESSMENT

Michael Thompson, RedZone Robotics, Pittsburgh, PA

Current conventional CCTV equipment is not always the best tool for understanding the condition of larger diameter pipes, leaving utilities in the dark when making decisions on some of their most critical pieces of infrastructure. Combining this CCTV with gas, sonar, and laser sensors on a robotic 'multi-sensor inspection' (MSI) platform, allows for a cross sectional view of the entire pipe with quantifiable data. Sonar allows for measurements of debris volumes and accumulation informing cleaning plans and maintenance work. Laser results provide internal diameters and, when compared to the record drawings, informs wall-thickness, ovality, and useful life analyses. This all-encompassing approach for trunk and interceptor pipes leads to better decision making for any engineer or system owner, especially when it comes to rehabilitation.

9:00 - W2: LININGS, WET WELL & MANHOLES - IMMERSION SERVICE TECHNOLOGY

Tim Bauman, Sherwin Williams, Warrendale, PA

Lining technology in the water-wastewater industry has so dramatically changed over the years that you need a refresher course every few years to keep up with the advancements. Join me in this conversation about the various lining technologies that take us from coal-tar epoxies being used throughout the entire WWTP immersion scenarios to the elastomeric urethane products that can be applied up to one-half inch in one application.

This conversation will describe the applicable standards for both concrete & metals in addition to an in-depth description of the ever-evolving equipment that is used to apply these non-conventional lining products. Focusing almost entirely on the water-wastewater industry, we will explore the typical causes of failures and describe various ways to reduce the opportunity for these occurrences in the field. Join me as I meet this issues head on in a no-nonsense presentation that is bound to raise an eyebrow or two.

10:00 - W3: GREEN INFRASTRUCTURE OPPORTUNITIES AND CHALLENGES

Sam Shamsi, ASCE-Pittsburgh, Pittsburgh, PA

Pittsburgh region is spending millions of dollars on green infrastructure for stormwater management. Green stormwater infrastructure (GSI) has both opportunities and challenges. Opportunities are related to environmental impact, community revitalization, economic development, and job creation. Challenges are related to ownership, public outreach, maintenance, hydraulic performance, and consent decree compliance for CSO volume reduction. Poorly planned and designed green solutions do not perform well. Their success depends on the climate, soil, vegetation, and maintenance. For best results, GSI alternatives must be planned and designed with the same level of effort as their gray counterparts who have received most of the planning attention in most wet weather projects. The last thing we want to do is spend millions of dollars to construct something in a hurry that would not perform as intended, like CSOs and SSOs, and then spend even more money to fix the unforeseen problems. We, therefore, need to use the best GSI planning and design approaches to make sure that our investment in green solutions will be

sustainable into the future. This presentation will discuss the opportunities and challenges of green wet weather solutions. GSI examples and case studies on lessons learned from Pittsburgh and other U.S. cities will be provided.

11:00 - W4: BREAKING DOWN PFAS AS AN EMERGING CONTAMINANT

Brent Alspach, P.E., BCEE, Arcadis, Carlsbad, CA

Poly- and perfluoroalkyl substances (PFAS) are among the most important emerging contaminants of concern in the water treatment industry today. Although several high-profile cases of PFAS environmental contamination, including discharges to both groundwater and surface water supplies, have been widely reported for over 15 years, the widespread detection of PFAS by drinking water utilities participating in USEPA's third Unregulated Contaminant Monitoring Rule (UCMR 3) catapulted this class of contaminants to the forefront of the industry consciousness. Not only are these compounds considered toxic at parts-per-trillion levels, they are environmentally recalcitrant and can be difficult to remove, even with many advanced water treatment technologies. This presentation provides a broad, practical overview of PFAS in an effort to educate the water treatment community on a critical contemporary issue, covering topics including: nomenclature, contaminant background, sources, occurrence, chemical characteristics, health effects, and treatment options.

EARLY BIRD SESSION 3

ROOM 301/303 - FLOOR 3

7:30 - EB3: ECOLOGICAL CONSIDERATIONS FOR SITE DEVELOPMENT PROJECTS

Daniel A. Maltese, Civil & Environmental Consultants, Inc., Pittsburgh, PA

Proper planning is critical in the successful completion of site development. While it is inevitable that unforeseen issues will likely arise during the site evaluation, planning, and design process, there are certain considerations that need to be evaluated on the front end of a project that will help to minimize project surprises. In this session, Mr. Maltese will review and discuss numerous ecological considerations including wetlands, streams, threatened and endangered species, historic and archaeological surveys, among others.

INDUSTRIAL TRACK

ROOM 301/303 - FLOOR 3

8:00 - G1: PUMP SYSTEM RELIABILITY

Charles Gerbe, Total Equipment Company, Pittsburgh, PA

Presenter will highlight the 8 most important aspects to insure pump system reliability

9:00 - G2: HIGH PERFORMANCE MAINTENANCE COATINGS FOR INDUSTRIAL AND DECORATIVE FLOORS

Steven Reinstadtler, Covestro, Pittsburgh, PA

This course will cover high performance industrial and decorative concrete floor coating technologies. The sustainability drivers and aesthetic prefer-

ences which contribute to the satisfaction of the building decision makers will be discussed in detail. The course will cover benefits/drawbacks, correct surface preparation and site considerations as well as the safe handling and use of the high performance components. Several concrete floor projects, both new and as maintenance of an existing floor, will be reviewed to demonstrate the use of high performance floor coatings to preserve, adapt, or retask new or existing spaces as a seamless alternative to floor coverings or lower performance coatings.

10:00 - G3: LESSONS LEARNED IN ENGINEERING, DESIGN, MANUFACTURING AND CONSTRUCTION

Bill O'Donnell, O'Donnell Consulting Engineers, Bethel Park, PA

This presentation would include various examples from the book "Handbook of Lessons Learned in Engineering, Design, Manufacturing and Construction from 50 Years of Failure Experience"- from weld failures on equipment, to construction issues on buildings, dams and coke oven batteries, as well as failures on power plant equipment. Some of these examples were part of major (Plaintiff and Defendant) litigation - from \$100 M to \$560 M. One of which included binding international arbitration over construction issues between CITIC and ThyssenKrupp over its Coke plant in Brazil.

Many of the examples involve both metallurgical investigations and provide engineering lessons learned.

11:00 - G4: ENVIRONMENTAL CONCERNS AND PROJECT ENGINEERING

E. Joseph Duckett, Ph.D., P.E., SNC-Lavalin (retired), Pittsburgh, PA

Almost every project engineer or manager has to contend with "environmental" factors, which can motivate, restrict, accelerate or justify their projects. We'll review the complex ways in which environmental issues affect projects and discuss some counter-intuitive real world experiences. We'll point out the varied skills involved in managing environmental aspects of projects. We'll suggest several simple steps to successfully streamline the environmental regulatory and approval process, thereby controlling scope, schedule and costs. These steps involve virtually all project participants. Special emphasis will be on air pollution control regulations but other fields of environmental engineering will also be covered (water, wastewater, wetlands, erosion control, etc.).

LUNCHTIME PLENARY SESSION

VOLUNTEERING AND PROBLEM SOLVING AROUND THE WORLD

Dennis Mialki, Engineers Without Borders/All Hands and Hearts, Tarentum, PA

During 30+ years as a commercial construction manager in the US, I've taken time off to volunteer/work for USAID, Peace Corps, Habitat for Humanity, United Nations, Engineers Without Borders, and All Hands and Hearts. I've worked in about a dozen countries through the world, in infrastructure projects, housing, and disaster recovery programs. Engineering IS Problem solving. Through a slide presentation, a short video, and my own narrative, I plan to show how I've solved problems ranging from infrastructure in Honduras and Nepal, to housing in El Salvador, to water distribution in Ecuador and Panama, and natural disaster recovery in Haiti, Puerto Rico, and the Caribbean. Through my presentation, I hope to inspire attendees at the Boot Camp to consider volunteering themselves in order to broaden their horizons and perspective of our diverse world.



FOLLOWING TODAY'S EVENT, REMEMBER TO COMPLETE THE ONLINE PDH REQUEST FORM! UPON VERIFICATION, YOU WILL RECEIVE OFFICIAL CERTIFICATION BY THE ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA (ESWP) OF YOUR ATTENDANCE.

TO CLAIM CONTINUING EDUCATION CREDIT FOR NEW YORK P.E. LICENSURE, BE SURE TO SIGN IN AND OUT OF EACH SESSION! ESWP IS UNABLE TO PROVIDE CERTIFICATION FOR NY STATE WITHOUT PROPER VERIFICATION.

TRANSPORTATION TRACK

MAIN DINING ROOM - FLOOR 2

1:30 - TR5: TRANSPORTATION ANALYSIS TOOLS WHICH TO CHOOSE?

Jessica Belowich, P.E., PTOE, Michael Baker International, Moon Township, PA

Establishing the appropriate project traffic analysis tool is a key step in the scoping process and can lead to meeting client expectations. The goal of this presentation is to provide a general understanding of widely used traffic analysis tools. The presentation will provide information to help determine the appropriate software tool given the scope of the project, data availability, costs, schedule, and desired budget. This information is valuable to multi-discipline Project Managers and traffic engineers performing the analysis.

2:30 - TR6: IN-DEPTH FINITE ELEMENT ANALYSIS OF THE SEVENTH STREET SELF-ANCHORED SUSPENSION BRIDGE

Aaron Colorito, P.E., C.B.S.I., Michael Baker International, Moon Township, PA

The Andy Warhol Bridge is an eyebar-chain, self-anchored suspension bridge carrying Seventh Street over the Allegheny River in the city of Pittsburgh, PA. This bridge is one of the "Three Sisters" bridges constructed from 1924 to 1928 which comprise the only trio of identical, side-by-side bridges in the world and the first self-anchored bridges constructed in the United States. An in-depth, three-dimensional finite-element analysis is carried out to identify rehabilitation needs of this unique structure.

3:30 - TR7: CONNECTED VEHICLES 101

Jim Katsafanas, P.E., PTOE, Michael Baker International, Moon Township, PA

The presentation will focus on what connected vehicles technology is, how dedicated short-range communication (DSRC) works, the current state of practice in connected vehicles, and advancements being made with the technology. The session will explore in more detail the components that make up connected vehicles (vehicle, infrastructure, data, on-board applications), how the technology works, and the use cases for deploying the technology to improve mobility and increase safety on our nation's roadways. This session will provide transportation professionals and infrastructure owners and operators with the basic knowledge to better comprehend the technology and how to best be prepared for implement this technology. The presentation will draw upon real world deployments and lessons learned.

TECHNOLOGY TRACK

ROOM 302 - FLOOR 3

1:30 - T1: EMERGING TECHNOLOGIES IN ENGINEERING AND CONSTRUCTION

Rob Sinclair, Civil & Environmental Consultants, Inc., Pittsburgh, PA

The engineering and construction industries have been impacted by the rapid growth of technology over the past few years, with two of the most notable examples of technology being drones and 3D laser scanning. The use of drones and laser scanning in these industries has allowed common tasks to be accomplished in cheaper, faster, and safer ways. Rob will discuss some of the advancements and uses of these technologies within the engineering and construction industries. Rob will also discuss 3D modeling, AR/VR applications, and mobile LiDAR, and he also will have some interactive examples on hand. Finally, we will hear about some of Rob's experiences utilizing these technologies for historic preservation purposes in a small medieval town in Tuscany, Italy.

2:30 - T2: HOW TO "BREAK" YOUR DATA AND IRON OUT THOSE STAIR-STEPS!

Kenneth Crawford, P.E., Civil Engineering Consultant, New Kensington, PA

Topics:

- Terrain modeling basics
- Software approaches (Autodesk Civil 3D, Carlson)
- Typical available data sources
 - Survey data
 - points only
 - points with proper breaklines
 - After-the-fact breakline generation
 - DEM models (typically evenly-spaced table of gridded elevations)
 - PASDA or other (drawn) contours
- The danger of "surface from contours"
- How to spot the issues
- How to resolve the issues

Demonstrate with sample data and show how the results, while seemingly correct at first examination, often contain the very problem issues that we can't "see" in normal visual inspection. These issues will cause errors in the later design stages that use such modeled terrain as a basis for design. We will then explore ways to resolve those features to make our models more accurate so it continues to serve the design process throughout its useful life.

3:30 - T3: CYBERSECURITY FOR CRITICAL INFRASTRUCTURE LIKE WASTE WATER PLANTS OR AIRPORTS

Suresh Ramanathan, KORYAK, Pittsburgh, PA

Did you know that the Environmental Protection Agency (EPA) is responsible for developing a Sector Plan for Water and Waste Water Systems by leveraging the NIST Cybersecurity framework? Did you know that the Airports has a similar sector plan developed by Department of Defense (DOD) and US Department of Transportation (DOT)?

Critical infrastructures by definition include both physical and virtual assets and systems. But as we increase the use of sensors and remote technologies to monitor and manage our physical infrastructures and related equipment, we increase the exposure to potential vulnerabilities. Further when we incorporate wireless and wired connectivity to integrate and enhance entire systems, a single point of failure can be exposed or exploited by internal or external actors either accidentally or deliberately.

Join us at this Technology track session to understand how an Airport or a Water or Waste Water Plant can complete a self assessment and develop a cybersecurity plan to protect its critical infrastructure.

LEGAL & ETHICS TRACK

ROOM 301/303 - FLOOR 3

1:30 - L1: SEX DISCRIMINATION IN THE ENGINEERING WORKPLACE

Catherine S. Loeffler, Houston Harbaugh, Pittsburgh, PA

- I. Discrimination Basics
 - a. Types of discrimination
 - b. Applicable statutes
- II. Gender Bias in Company Structures and Practices
 - a. Structural hierarchy
 - b. Job descriptions
 - c. Tasks and assignments
- III. Mitigating Implicit Bias
 - a. Methods for objective personnel decisions and management
 - b. Conscious inclusion tactics
 - c. Training employees
- IV. The Next Steps
 - a. Consulting on best practices
 - b. Handling employee claims
 - c. Internal investigation

2:30 - L2: IT'S A MATTER OF ETHICS

Nicole Mangino, Oswald Companies, Cleveland, OH

Presentation dealing with understanding the code of Ethics and how it underpins ethical decisions by using examples and circumstances or ethical dilemmas faced by engineers. Participants will also understand the common ethical complaints made against engineers and we will also make recommendations on steps to follow to make ethical decisions within their firm.

3:30 - L3: PENNSYLVANIA SEPARATIONS ACT; SUBMITTAL REVIEW AND APPROVAL; AND, INTELLIGENT PROJECT COMMUNICATION.

David Scotti, Esq., Joe Hrabik, P.E., Esq., Scotti Law Group, Pittsburgh, PA

Pennsylvania Separations Act - The Pennsylvania Separations Act has been in effect for over 100 years. This law requires advertising, bidding and separate awarding of prime contracts to mechanical, electrical, plumbing and general trades contractors for construction of any public building.

Several newer versions of the law have been enacted in the past 10 years.

Submittal Review and Approval - Revisiting the issue of the engineer's responsibility for review and approval of submittals. The engineer's compensation for submittal review services. Professional liability insurance coverage.

DON'T MISS THESE UPCOMING ESWP EVENTS...

- YMF Summer Social – September 6, 2019; 5:00pm
- Brownfield Basics – September 18, 2019; 9:00am
- 2nd Annual YMF Softball Tournament – September 22, 2019
- 14th Annual Electric Power Industry Conference – October 28, 2019
- International Water Conference® – November 10 – 14, 2019
- ESWP Engineering Career Fair – January 31, 2020

Go to eswp.com for event details and registration

Enjoy lunch in the Member's Executive Dining Room, served Monday thru Friday from 11:30 am – 1:30 pm. (Reservations not required (but appreciated!))

Don't have time to dine with us?...call ahead to 412-261-0710, ext 10 and we can have your order ready to pick up as you drive by!

SPONSORS



Civil & Environmental Consultants, Inc.



PLANNING COMMITTEE

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Dawn Spence, P.E., Michael Baker International, Moon Township, PA

John Tricini, P.E., PLS, Michael Baker International, Moon Township, PA

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