

2020 October Virtual Conference Speaker Series

35 YEARS OF CONNECTING THE KEYSTONE



PAEP

PENNSYLVANIA ASSOCIATION OF ENVIRONMENTAL PROFESSIONALS

CELEBRATING 35 YEARS

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2020 VIRTUAL SCHEDULE

Friday, October 2, 2020

4:00 pm – 5:00 pm **Happy Hour: Greetings, Format Introduction**

Monday, October 5, 2020

8:00 am – 9:00 am

Mixing PCBs and Erosion Issues: A Study and Remediation Strategy for a Complicated Project
– Todd C. Crouch, PennDOT District 11-0, and Darlene Stringo-Walker, American
Geotechnical and Environmental Services, Inc. **(Price \$Free/Mem - \$5.00/Non-member)**

This session will outline the findings and path forward for the investigation and repair of State Route 2102 in Allegheny County Pennsylvania. The site was identified because of a geotechnical investigation into roadway erosion showed areas of potential soil contamination. It was discovered that the original road was relocated (in the 1960's) into an area of PCB contamination. The current location of the roadway was built over a portion of the former Westinghouse Corporation Power Circuit Breaker facility where presumably the building and contents including broken PCB ballasts and oil were buried in place. The portion of the property directly adjacent to the current roadway and retained by Westinghouse (currently owned by CBS Corporation) was part of an Environmental Covenant that was considered completed by PADEP under the PA Act 2 Voluntary Cleanup Program. Erosion of the ground was causing roadway deterioration and soil and waste to be exposed in the stream embankment precariously close to the Turtle Creek waterway. We will explain the complicated investigation to identify and isolate the contamination and develop a design that will remedy the erosion issue while minimizing remediation and excavation. This was accomplished through design innovations and agency coordination with PennDOT District 11-0 to advance a unique and complex project.

12:00 pm – 1:00 pm

Overview and Demonstration of the U.S. Fish & Wildlife Services' Assisted Determination Tool-Brian D. Scofield, US Fish & Wildlife Service **(Price \$20/Mem - \$30/Non-member)**

This presentation will provide an overview and demonstration of the assisted determination tool located in the U.S. Fish & Wildlife Services' Information for Planning and Consultation (IPaC) web application. A determination key is a logically structured set of questions which assists an IPaC user in determining whether a project qualifies for a predetermined consultation outcome based on an existing programmatic consultation or internal standing analysis. They provide consistent and transparent responses to requests for consultation and automate responses on projects which are similar in nature. For qualifying projects, using a Determination Key in IPaC results in either a consistency letter or final consultation documents.



Friday, October 9, 2020

8:00 am – 9:00 am

Integrated Environmental and Engineering Planning for the New Decade - David S. Coyne, QEP, Principal and COO, Liberty Environmental Inc.
(Price \$Free/Mem - \$5.00/Non-member)

A discussion of how the integration of environmental planning and engineering design is becoming the 'New Normal' in land development in Pennsylvania. Focus will be given to the evolving role of this integrated approach to Act 2 site cleanups, and to the new DEP Chapter 102 NPDES construction-phase permitting procedures. This presentation will be valuable for any PAEP members and affiliates who work with civil engineers, landscape architects, land planners, or land development professionals on redevelopment projects.

12:00 pm – 1:00 pm

Water and Wetlands Regulations – David S. Goerman, PADEP, Bureau of Waterways Engineering and Wetlands (Price \$20/Mem - \$30/Non-member)

A variety of topics will be discussed that are related to changes or updates to the Corps and PA DEP Ch. 105 programs, including wetland ID issues and wetland science as they relate to regulatory actions, finalization of the Function Based Aquatic Resource Compensation Protocol (310-2137-001) technical guidance, mitigation banking update, program development projects that are under way or nearing completion.

Friday, October 16, 2020

8:00 am – 9:00 am

Use of the PennDOT Connects System Environmental GIS Data - Virginia M. Bailey, McCormick Taylor, Inc.; Brian T. Funkhouser, AICP, Michael Baker International; Brian D. Hare, PE, PennDOT.
(Price \$Free/Mem - \$5.00/Non-member)

The PennDOT Connects System should be used during transportation project planning as a method of collecting and documenting community needs and desires as well as potential environmental impacts of a proposed project. The use of this system allows for better identification of potential impacts and potential mitigation early in the transportation project development process. The environmental data in PennDOT Connects is a tool that can be used in the development of Long-Range Transportation Plans by the Metropolitan Planning Organizations (MPO) and Rural Planning Organizations (RPO). A new process and format for agency coordination during planning is under development by PennDOT with input from agencies and the MPO/RPO. The presentation will discuss the use of the PennDOT Connects System, the environmental data available in the system, its uses, and the new and improved approach to agency coordination during planning.



12:00 pm – 1:00 pm

Pennsylvania Climate Action –Leading by Example –Heidi J. Kunka, LEED AP BD+C, CC-P, PADEP (Price \$20/Mem - \$30/Non-member)

In this session, the PA Department of Environmental Protection will provide an overview of the 2018 Climate Action Plan, including PA-specific impacts and emissions, as well as recommended strategies and actions. Results of our most recent annual greenhouse gas inventory and Pennsylvania climate impacts assessment will also be shared. The 2018 PA Climate Action Plan calls on all leaders in state and local government to take steps to reduce greenhouse gas emissions and adapt to changing conditions. DEP will discuss how the Commonwealth is leading by example via Executive Order 2019-01, "Commonwealth Leadership in Addressing Climate Change and Promoting Energy Conservation and Sustainable Governance," and the resulting formation of a GreenGov Council. DEP will conclude by sharing details on a local government climate action assistance program they are currently funding. The program utilizes a contractor to train college students on developing greenhouse gas inventories & climate action plans for 20 local governments in Pennsylvania.



Monday, October 19, 2020

8:00 am – 9:00 am

Energy in Pennsylvania: How ESG Factors are Driving the New Wave of Infrastructure Development – Duane E. Peters, Power Engineers (Price \$Free/Mem - \$5.00/Non-member)

The abundant energy resources in Pennsylvania have spurred major investments by private equity into natural gas and renewable infrastructure projects. Due to the volatile nature of siting and permitting energy infrastructure, many investors are requiring the use of investment models such as the Equator Principles (EPs), and Environmental, Social, and Governance (ESG) assessments to measure the sustainability and ethical impact of an action and predict project success. These models also consider the traditional regulatory framework while including social criteria and governance issues to identify and develop contingency plans for project hurdles. Historically, projects in the United States were exempt from these assessments; however, civil unrest, record fines, legal challenges, and major construction delays has prompted application of EPs and ESG to energy infrastructure projects. This presentation will discuss how these risk assessments are changing our industry as well as the implications and opportunities for environmental professionals in the Commonwealth. Additionally, we will discuss the various kinds of assessments, social and governmental implications, and other considerations associated with technical studies and stakeholder engagement. Case studies and lessons learned will be presented to illustrate the nature of the topic.

12:00 pm – 1:00 pm

FHWA Regulation and Policy Updates –Camille Otto, Federal Highway Administration (Price \$20/Mem - \$30/Non-member)

Wonder what is happening with FHWA? Questions on regulations, policies, or interpretations? Want to be able to anticipate comments from FHWA and head them off at the pass? Well, then this session is for you! FHWA will provide the latest and greatest news on innovative approaches and





cover recent activities. Topics will include items such as the status and policies for use of One Federal Decision, updates on the use of IPAC for the Northern Long-Eared Bat, frequently made comments on environmental document submissions, and more. Plus, this is your chance to ask FHWA anything you want.



Friday, October 23, 2020

8:00 am – 9:00 am

Valuation of Large-Order Floodplain Restoration for Nutrient and Sediment Reduction

– Kevin L. Hoover, PG, PH, PWS, Buchart Horn and Benjamin A. Mikesell, PLA, PE, Buchart Horn
(Price \$Free/Mem - \$5.00/Non-member)

Restoration of floodplains can increase nutrient and sediment removal rates for streams and benefit downstream water quality improvement efforts such as the Municipal Separate Storm Sewer System (MS4) program. Floodplain restoration is not specifically identified in Pennsylvania’s 3800-PM-BCW0100m tabulation of MS4 Best Management Practice (BMP) Effectiveness Values, which offers only generic removal rates per foot of stream restoration that are applicable to eroding urban streams of 3rd order or less. However, this BMP references the protocols of the Expert Panel to Define Removal Rates for Individual Stream Restoration Projects, of which Protocol 3 provides a scalable valuation system dependent on such factors as floodplain connection volume and upstream pollutant loading, but independent of stream order or erosional state. This presentation explores Protocol 3 and other approaches for valuing nutrient and sediment loading reductions planned for the Codorus Creek Beautification Initiative in York, Pennsylvania. The project involves a 5th order urban stream with existing channel lining to prevent erosion, but where heavy upstream nutrient and sediment loadings could be reduced by floodplain restoration. These approaches are intended for consideration on other large-order floodplain restoration projects in the Chesapeake Bay watershed.

12:00 pm – 1:00 pm

Historic Bridges: Connecting People and Places in the Keystone

–Kara H. Russell, PennDOT (Price \$20/Mem - \$30/Non-member)

Pennsylvania has one of the largest and most unique collections of historic bridges in the nation. The Keystone state was a leader in bridge building and the evolution of bridge technology. These bridges have always played an important role in community identity and as community gateways. As a transportation department, PennDOT is charged with maintaining safety and the needs of the travelling public while considering community concerns and goals. This presentation will look at the ways in which PennDOT has sought to balance these concerns, including creative ways to maintain historic bridges in transportation use. The presentation will also look at PennDOT’s program to find adaptive uses for bridges that cannot meet vehicular needs so that they can still serve the community and preserve the rich industrial and bridge building history of the Keystone state.





Monday, October 26, 2020

8:00 am – 9:00 am

Joint Infrastructure Development & Project Delivery for Pollutant Reduction & Stormwater Compliance – Thomas A. Graupensperger, Dewberry (Price \$Free/Mem - \$5.00/Non-member)

Transportation Departments (DOTs) and Municipalities across the country are charged with complying with NPDES Municipal Separate Storm Sewer System (MS4) Permits and the six Minimum Control Measures (MCMs) for storm sewer infrastructure. Pollutant Reduction Plans and Total Maximum Daily Load (TMDL) reductions for sediment, nutrient and other pollutant loadings from stormwater runoff, as well as reductions of volume and contaminants from stormwater discharges are now required by many Watershed Implementation Plans (WIPs). To meet the challenges, many MS4s have identified natural channel design restoration as a low maintenance means of improving water quality. Implementation of this approach during bridge replacement, highway reconstruction and elimination of illicit discharges during routine maintenance activities, are potential means of providing TMDL-WIP compliance. Case studies will be provided to identify joint infrastructure development opportunities, as well as joint permitting/environmental clearance and MS4 compliance, for improved delivery. This approach results in cost-effective, sustainable infrastructure restoration for short-term and long-term benefits.

12:00 pm – 1:00 pm

Using Science to Conserve Pennsylvania's Biodiversity
–Greg S. Podniesinski, PA DCNR, Bureau of Forestry and Kent R. Taylor, PA DCNR
(Price \$20/Mem - \$30/Non-member)

Many of Pennsylvania's native plant and animal species are threatened with habitat loss, invasive species, and climate change. How is your organization using science to protect biodiverse communities?

For 37 years, the Pennsylvania Natural Heritage Program (PNHP) has been providing scientific information, expertise, and assistance to support the conservation of biodiversity. To carry out its mission, PNHP offers tools and services that environmental professionals use every day. Over the past four years, DCNR and its natural heritage partners have worked to improve their web mapping applications, adding flexibility, user-friendly enhancements, and better access to information.

In 2016, PA Department of Conservation and Natural Resources launched the award-winning *PA Conservation Explorer* designed to make the work of environmental professionals more efficient, leading to reduced project impacts and significant cost savings.

The tool allows users to easily query spatial data, add their own data to the interactive map, or display map services from PA Spatial Data Access and other public resources. Some of the data and information visible through Conservation Explorer include:

- *Rare species habitats, wetlands, high-value surface water resources, and natural areas*
- *Editable project footprints to perform screenings based on specific project types*
- *Automated reports with multiple basemaps*



This session will address frequently asked questions, demonstrate some of the newer features of PNHP's online tools, and query users for enhancements. Presenters will include a discussion of PNHP's science-based approaches and how state of the art GIS technologies are helping PNHP protect species while serving thousands of users.

Friday, October 30, 2020

8:00 am – 9:00 am

PennDOT Update – Mark D. Lombard, PennDOT (Price \$20/Mem - \$30/Non-member)

Mark Lombard will be presenting updates on environmental topics in the Highway Administration's Bureau of Project Delivery. Updates will include: Public Private Partnership (P3) status, Keystone Environmental Electronic Permitting System (KEES) status, Environmental Commitments Tracking System (ECMTS), updated publications and other topics that our business partners should know.

12:00 pm – 1:00 pm **Happy Hour: Greetings, Award Winner Presentations, Thank You's,**

Conference Adjourns



Important Deadlines

September 25: Registration form due to PAEP

September 25: Cancellations must be received in writing to receive a refund.

No refunds after this date.

Questions? Contact the PAEP Registration Office at (814) 355-2467 or info@paep.org.

Visit our website at www.paep.org

Registration Information

Full Registration Includes access to all sessions for the month of October.

Single Registration Includes: sessions, for that specific date and time.

Students: If you are a student and interested in attending the conference, please go to our website at www.paep.org and click on Conference.

You must be a current PAEP member for the member rates to apply.

Continuing Education

PAEP will provide a Certificate of Completion for the course/sessions offered, at the request of the attendee, specifying course titles and hours achieved. PAEP courses or sessions have not been pre-approved by any P.E., P.G., or PWS governing body. Therefore, PAEP does not guarantee the acceptance of the short course or any individual session or conference “as a whole” to qualify for continuing education requirements per P.E., P.G., or PWS license renewal requirements.



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Cancellations

All cancellations must be made in writing to PAEP and received by September 25, 2020 to receive a refund. All registrations will incur a \$25 non-refundable processing fee. No refunds will be given for cancellations received after this deadline or for 'no shows.'

Thank you to our Sponsors so far:



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REGISTRATION

2020 PAEP October Virtual Speaker Series Registration form

(Please use one registration form per person)

Name: _____ Company: _____

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Please circle what events you plan to attend. No refund for no shows.

Time	Session	Member	Non-Member	Time	Session	Member	Non-Member
Friday, 10/2							
	Full Virtual Package (view all webinars for one price)	\$105.00	\$180.00	Afternoon (4-5)	Happy Hour/ Greeting/ Introduction to Format	N/C	N/C
Monday, 10/5							
Morning (8-9)	Mixing PCB's and Erosion Issues - Todd Crouch, PennDOT, Darlene Stringos-Walker, American GeoTech & Environmental	N/C	\$5.00	Afternoon (12-1)	Overview and Demonstration of the US Fish & Wildlife Services- Brian Scofield (USFWS)	\$20.00	\$30.00
Friday, 10/9							
Morning (8-9)	Integrated Environmental and Engineering Planning for the New Decade - David Coyne (Liberty Enviro)	N/C	\$5.00	Afternoon (12-1)	Water/wetland regulations - David Goerman (PADEP)	\$20.00	\$30.00
Friday, 10/16							
Morning (8-9)	PennDOT Connects/GIS - (multiple)	N/C	\$5.00	Afternoon (12-1)	Climate Action - Heidi Kunka (PADEP)	\$20.00	\$30.00
Monday, 10/19							
Morning (8-9)	Energy Infrastructure - Duane Peters (Power Engineers)	N/C	\$5.00	Afternoon (12-1)	Federal Highway updates - Camille Otto (FHWA)	\$20.00	\$30.00
Friday, 10/23							
Morning (8-9)	Floodplain Restoration Valuation - Kevin Hoover & Benjamin Mikesell (Buchart Horn)	N/C	\$5.00	Afternoon (12-1)	Historic Bridges - Kara Russell (PennDOT)	\$20.00	\$30.00
Monday, 10/26							
Morning (8-9)	Pollution Reduction/Stormwater Compliance - Tom Graupensperger (Dewberry)	N/C	\$5.00	Afternoon (12-1)	PNHP/Biodiversity - Greg Podniesinski (DCNR) and Kent Taylor (DCNR)	\$20.00	\$30.00
Friday, 10/30							
Morning (8-9)	PennDOT Updates - Mark Lombard (PennDOT)	\$20.00	\$30.00	Afternoon (12-1)	Happy Hour / Award Winners presentation / Thank you's	N/C	N/C

TOTAL AMOUNT PAID _____

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