

# 2020 ANNUAL CONFERENCE

# 35 YEARS OF CONNECTING THE KEYSTONE



**PAEP**

PENNSYLVANIA ASSOCIATION OF ENVIRONMENTAL PROFESSIONALS

CELEBRATING 35 YEARS

10 20 30 40 50 60 70 80 90 Miles.

May 6-8, 2020 | Wyndham Garden Hotel | State College, Pennsylvania



# 2020 CONFERENCE SCHEDULE

## WEDNESDAY, MAY 6, 2020

- 7:30 am Registration Open
- 7:30 am – 8:30 am Continental Breakfast for Short Course Attendees
- 9:00 am – 5:00 pm PAEP Short Course

*Field and Office Determination of Waters of the United States, Sample Techniques and Approaches* - Francis R. Plewa, US Army Corps of Engineers, Baltimore District

Please join us for a day in the classroom and in the field with Frank Plewa, Wetland Specialist, of the Baltimore District of the United States Army Corps of Engineers. The day will start off with a very informative and interactive classroom presentation of various topics including the Clean Water Act/ Waters of The United States, review of Wetland Regulations, Delineation Manuals, and Regional Supplements, as well as review of case studies and tips, tricks, and best practices. Following lunch, the course will move outside to put what was presented during the morning session into practice. Field activities will include review and observation of several wetland and stream complex's on campus, as well as the potential for some sites off site. (A separate registration is required for this course and is NOT included in the Conference Registration.)

- 2:00 pm – 6:00 pm Exhibitor Set-up
- 6:00 pm – 7:15 pm Welcome Reception: Heavy Hors D'oeuvres/Cash Bar with Exhibitors
- 7:15 pm – ??? pm Quizzo

A great time was had by all last year so we have been asked to do this again. Join your friends and colleagues and test your knowledge of PAEP history, industry-related information and general trivia. You can come with a pre-formed team or join one on site. Either way it will be a great night of fun and sharing knowledge.

## Thursday, May 7, 2020

- 7:00 am Registration Open
- 7:30 am – 8:30 am Continental Breakfast with Exhibitors and Student Posters
- 8:30 am – 8:45 am Welcome: PAEP President
- 8:45 am – 10:15 am General Session

*PADEP and USACOE Chapter 105/Section 404 Updates* - David S. Goerman, PADEP, Bureau of Waterways Engineering and Wetlands, and Francis R. Plewa, US Army Corps of Engineers, Baltimore District

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 and program development projects that are under way or nearing completion.

**10:15 am – 10:30 am** Break with Exhibitors

**10:30 am – 11:30 am** Breakout Session A

***Joint Infrastructure Development & Project Delivery for Pollutant Reduction & Stormwater Compliance*** – Thomas A. Graupensperger, Dewberry

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.

**10:30 am – 11:30 am** Breakout Session B

***Overview and Demonstration of the U.S. Fish & Wildlife Services' Assisted Determination Tool*** – Brian D. Scofield, US Fish & Wildlife Service

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

**11:30 am – 11:45 am** Break with Exhibitors

**11:45 am – 1:15 pm** Luncheon and Awards Program Keynote Presentation

Following lunch PAEP will recognize and present awards to this year's winners of the Karl Mason and Walter Lyon awards for their individual or organization's contribution to the field of environmental management in Pennsylvania. PAEP will also present the freshman/sophomore and junior/senior/graduate scholarship winners for 2020.



**1:15 pm – 1:30 pm**      **Break with Exhibitors and Student Posters**

**1:30 pm – 2:30 pm**      **Breakout Session A**

*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

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.

**1:30 pm – 2:30 pm**      **Breakout Session B**

*Energy in Pennsylvania: How ESG Factors are Driving the Next Wave of Infrastructure Development* – Duane E. Peters, Cardno

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.

**2:30 pm – 2:40 pm**      **Break with Exhibitors and Student Posters**

**2:40 pm – 3:40 pm**      **Breakout Session A**

*Historic Bridges: Connecting People and Places in the Keystone* – Kara H. Russell, PennDOT

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.

**2:40 pm – 3:40 pm**      **Breakout Session B**

***Retrofitted for Resilience: Innovative Stormwater Management at an Active Industrial Site***

- Damon T. Kline, PE, PMP, Penn E & R and Richard G. Singer, PE, Penn E & R

A massive campus renovation project by a global plastics manufacturer yielded a challenging project for environmental consulting company Penn Environmental & Remediation, Inc. (Penn E&R). The active industrial site exhibited a wide range of infiltration values, complicating the feasibility of effective stormwater management controls. Penn E&R worked directly with the Pennsylvania Department of Environmental Protection (PADEP) to develop a precedential, new age solution. Penn E&R designed and installed Managed Release Concept (MRC) Best Management Practices (BMPs) in the form of two modified slow-release infiltration basins, including the retrofit of an existing detention basin—enhancing the site's resiliency. Particularly in areas with challenging subsurface conditions, these systems allow for stormwater flow rate reduction through the use of restricted underdrain systems that limit flow of out of the basin. Slow-release BMPs also qualify for volume reduction credits since stormwater is eliminated from surface runoff through evapotranspiration and infiltration through stone bed. Following this project, the PADEP added the slow-release infiltration basin to its stormwater management BMP manual. This session will detail the process through which Penn E&R designed these MRC BMPs at the site—including the challenges encountered and the overwhelming advantages now in effect.

**3:45 pm – 5:15 pm**      **General Session**

***PennDOT Update*** – Mark D. Lombard, PennDOT

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.

***FHWA Regulation and Policy Updates*** – Camille Otto, Federal Highway Administration

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.

**5:45 pm – 6:15 pm**      **Reception/Happy Hour**



**6:30 pm – 8:30 pm**      **Dinner and Keynote Presentation**

***Reflections on 35 years of PAEP’s Impact on the Environmental Profession in Pennsylvania***

– Moderator: Wayne Kober. Panelists: Sandy Baseshore, Skelly Loy; Edward S. Gabsewics, Federal Aviation Administration (Retired); Andy Lutz, PA Turnpike Commission; and Scott Sternberger, A.D. Marble

The session will explore the impact of PAEP on the careers of the panelists. For many years, these environmental professionals have been and some currently are active members of PAEP. The panelists will offer their perspectives of their involvement in PAEP and how PAEP helped them with professional development.

---

**Friday, May 8, 2020**

**7:30 am**                      **Registration Open**

**7:30 am – 8:30 am**        **Continental Breakfast with Exhibitors and Student Posters**

**8:30 am – 9:30 am**        **Breakout Session A**

***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

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-BCW01000 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.

**8:30 am – 9:30 am**        **Breakout Session B**

***Mixing PCBs and Erosion Issues: A Study and Remediation Strategy for a Complicated Project***

- Todd C. Crouch, PennDOT District 11-0 and Darlene Stringos-Walker, American Geotechnical and Environmental Services, Inc.

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.

**9:30 am – 9:45 am**      **Break**

**9:45 am – 10:45 am**      **Breakout Session A**

***Pennsylvania Climate Action – Leading by Example*** - Heidi J. Kunka, LEED AP BD+C, CC-P, PADEP

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.

**9:45 am – 10:45 am**      **Breakout Session B**

***Using Science to Conserve Pennsylvania’s Biodiversity*** – Greg S. Podniesinski, PA DCNR, Bureau of Forestry and Kent R. Taylor, PA DCNR

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.

**10:45 am – 11:00 am**    **Break**

**11:00 am - 12:00 pm**    **General Membership Meeting/Board of Directors Meeting**

**12:00 pm**                    **Conference Adjourns**





---

# IMPORTANT INFORMATION

## Hotel

**Wyndham Garden Hotel**

**310 Elks Club Road**

**Boalsburg, PA 16827**

**(814) 466-2255**

[www.wyngardenstatecollege.com](http://www.wyngardenstatecollege.com)

**Group Room Rate: \$129.00 Single/Double Occupancy (plus applicable taxes)**

## Reservations

To make your room reservation, please call (814) 466-2255 and mention PAEP to receive the group rate. Reservations must be made no later than Monday, April 6. Please note that the available room block may fill prior to the aforementioned cut-off date. Reservations made after the cut-off date, or if the room block has been filled, will be accepted based upon availability with the group rate. Be sure to call early! Directions can be found on the hotel web site [wyngardenstatecollege.com](http://wyngardenstatecollege.com). Also, a limited number of rooms are available at the Government per diem rate.

## Important Deadlines

**April 6:** Wyndham Garden Hotel group rate reservation cut-off date

**April 17:** Registration form due to PAEP

**April 27:** 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](mailto:info@paep.org)

Visit our website at [www.paep.org](http://www.paep.org)

## Registration Information

**Full Registration** includes Opening Reception and Quizzo event on Wednesday, May 6; all sessions and meals on Thursday, May 7 and Friday, May 8. PAEP Short Course is NOT included. Non-Member Full Registration Fee includes PAEP Membership fee for 2021.

**Single Day Registration** Includes: all sessions, meals and materials for that specific day. (This fee does not include PAEP membership dues for non-members.) PAEP Short Course is NOT included.

**Students:** If you are a student and interested in attending the conference, please contact either Kristin Aiosa at [KAiosa@jmt.com](mailto:KAiosa@jmt.com) or Mike Kenawell at [MKenawell@jmt.com](mailto:MKenawell@jmt.com) for details.

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

## PAEP Short Course

The cost for this course (includes all materials, morning refreshments, lunch and afternoon break) is \$99 for PAEP and \$129 for non-members. In order to register for this course (it is not included in the PAEP Conference registration fee), please complete the requested information on the registration page. Note: *Registration cut-off date for PAEP members is April 25. Non-member cut-off is April 23. We strictly adhere to these cut-off dates in order to adequately prepare for the course.*



## 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.

## Sponsorship and Exhibition

PAEP welcomes Sponsors for various conference events, as well as Exhibitors. Sponsor logos will be highlighted on PAEP’s website, in the conference program, and at the conference. Exhibitors will be provided with a 6ft. draped table. For Sponsorship and Exhibitor information please contact:

*Fiona Adamsky, Fiona.adamsky@alsglobal.com, (717) 514-0564*

*Vlad Odarchenko, vodarchenko@actengineers.com, (609) 918-0200, X225*

*PAEP headquarters at info@paep.org, (814) 355-246.*

## Cancellations

All cancellations must be made in writing to PAEP and received by April 27, 2020 in order 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:

### Platinum level



Civil & Environmental Consultants, Inc.



PITTSBURGH  
INTERNATIONAL AIRPORT

### Bronze level



On time. On target. In touch.™



# REGISTRATION

## 2020 PAEP Annual Conference Registration form

(Please use one registration form per person)

Name

Badge name

Company

Address

City

State

Zip code

Email

Telephone

Check this column to select the days/activities you'll be attending	Type of registration	Member rate	Student Rate	Non-member Rate	Total due
<input type="checkbox"/>	<b>WED. MAY 6 SHORT COURSE</b> <i>(Includes AM and PM break, lunch and all materials)</i>	<b>\$99</b>	<b>\$99</b>	<b>\$129</b>	<b>\$</b>
<input type="checkbox"/>	<b>FULL CONFERENCE</b> <i>(Includes attendance at each of the day's events and all meals including Thursday evening)</i>	<b>\$325</b>	<b>\$175</b>	<b>\$395</b>	<b>\$</b>
<input type="checkbox"/>	<b>WED. MAY 6 RECEPTION</b>	<b>\$55</b>	<b>\$35</b>	<b>\$60</b>	<b>\$</b>
<input type="checkbox"/>	<b>THUR, MAY 7 ONE-DAY RATE</b>	<b>\$255</b>	<b>\$75</b>	<b>\$300</b>	<b>\$</b>
<input type="checkbox"/>	<b>THUR, MAY 7 RECEPTION/DINNER</b>	<b>\$60</b>	<b>\$35</b>	<b>\$75</b>	<b>\$</b>
<input type="checkbox"/>	<b>FRI, MAY 8 ONE-DAY RATE</b>	<b>\$140</b>	<b>\$25</b>	<b>\$205</b>	<b>\$</b>
<input type="checkbox"/>	<b>LATE FEE AFTER APRIL 17</b>	<b>\$30</b>	<b>N/A</b>	<b>\$30</b>	<b>\$</b>

**TOTAL AMOUNT ENCLOSED \$**



### Notes

**Full Registration** includes attendance at each of the day's events and meals for that day. PAEP Short Course is NOT included.

Check here if you require any special dietary attention or have a disability and require accommodations in order to fully participate in this meeting. You will be contacted by a PAEP staff member to discuss your specific needs.

Check here if you would agree to supporting the PAEP Student Scholarship Fund by donating a themed basket for the conference.

### Payment

Check Enclosed (payable to PAEP)  Mastercard  Visa

\_\_\_\_\_  
*Credit card number* *Expiration date* *CCV#*

\_\_\_\_\_  
*Signature (Credit card orders only)*

*Meal attendance confirmation (please complete)*  
Please confirm which scheduled meal function(s) you will be attending based on the type of registration you have selected above so we may include you in our counts to the hotel: (check all that apply)

<i>Wednesday, May 6</i>	<i>Thursday, May 7</i>	<i>Friday, May 8</i>
<i>Opening Reception</i>	<i>Reception/Dinner</i>	<i>Breakfast</i>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

I give permission for PAEP to disseminate my name and contact information (i.e. list of attendees) at the conference.  
 yes  no

\_\_\_\_\_  
*Signature* *Date*

### Registration Procedure

Please complete and return this registration form along with payment to:

**Pennsylvania Association of Environmental Professionals**  
174 Crestview Drive  
Bellefonte, PA 16823-8516  
Phone: 814.355.2467  
Fax: 814.355.2452

If payment is made by check, make payable to PAEP. If payment is made by credit card (MasterCard or Visa), you may fax this form. We are unable to accept registrations over the telephone. Please note that registrations will not be processed without payment.