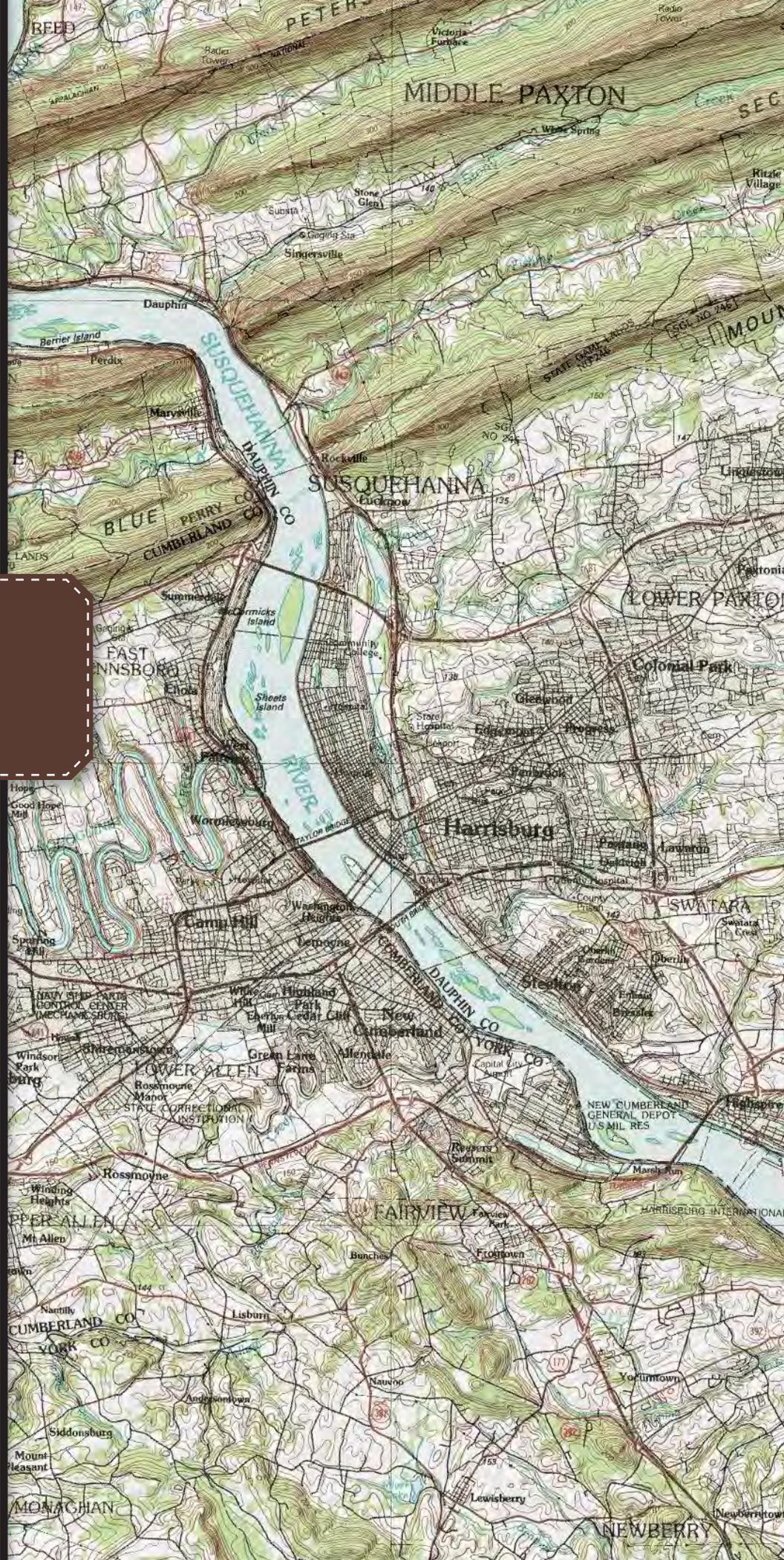


2016 ANNUAL CONFERENCE

Communities
Corridors &
Connections

MAY 11-13, 2016
TOFTREES GOLF RESORT
STATE COLLEGE, PA





INVITATION

Hello Everyone – Hope 2016 has started well for you all and will continue along that path for the rest of the year. Our 2016 PAEP Conference Committee has been hard at work planning a wonderful conference this year. Take a look at the enclosed information, and I am sure you will agree. This year, PAEP is celebrating 31 years as the leading statewide organization that promotes the environmental work we do every day—from cultural resources, to permitting, to public involvement, to wetlands and everything in between. This three-day conference offers the opportunity to network with colleagues, meet new and old friends, and of course learn about current issues impacting you and your career.

Since 1985, PAEP has been able to accomplish our stated purpose through promoting public understanding of important environmental issues, promoting a better understanding of the work we do, and providing opportunities that encourage professional development between colleagues, agencies, and businesses.

Conference sessions and speakers will cover many subjects relevant to today's issues, including an update to the FAST ACT, FERC process and regulations, energy independence, wetlands and streams impacts and mitigation, land recycling, public involvement in low-income communities, an update to the PA Conservation Explorer tool, regulatory and permitting information, new PennDOT initiatives, and mitigation for historic bridges.

Our keynote address will be made by PA DCNR State Secretary Cindy Dunn, a PAEP Karl Mason awardee. Ms. Dunn has been a supporter of PAEP, and we are pleased she can be here to update our members on the path DCNR is taking to protect Pennsylvania's natural resources, as well as discuss new DCNR programs.

State College is the place to be in early May, and the Toftrees Resort is the place to stay to see it all. The resort has a wonderful golf course, and the local area attractions are numerous and include our PAEP tour of the Arboretum at Penn State and the H.O. Smith Botanic Gardens, the local wineries and distilleries, Palmer Museum of Art, or hiking Mount Nittany. And of course—can't forget the world famous PSU Creamery—Yum!

So enjoy the conference, the local environment, and the diverse network of environmental professionals. CONGRATULATIONS to everyone who has worked to keep PAEP on the cutting-edge of environmental knowledge throughout Pennsylvania!

2015-2016 President, Pennsylvania Association of Environmental Professionals



SCHEDULE

WEDNESDAY | MAY 11, 2016

1:00 pm Registration Open
2:00 pm – 5:00 pm Penn State Arboretum Tour and Creamery Visit (additional fee and registration required)

Join your friends and colleagues in the hotel lobby, and we will carpool the short trip to the [Arboretum at Penn State](#) where we will have a guided tour of this beautiful place of beauty and renewal, a venue for the arts, and a pathway to discovery and enrichment. Please dress according to the weather and wear comfortable shoes. The Arboretum at Penn State has many different gardens, including the Strolling Garden, the Rose and Fragrance Garden, and the Pollinator's Garden just to name a few. It is also home of the Native Prairie Restoration, which is the recreation of a dry limestone prairie on a five-acre parcel within the Arboretum grounds. The site, once overgrown with invasive shrubs, is now well-stocked with newly-seeded grasses and forbs native to Centre County. Also, visitors can see examples of Water Conservation in the Marsh Meadow, which was designed to represent a grassy wetland. Despite its name, the Marsh Meadow is not usually marshy or even wet, although once or twice a year it contains standing water for brief periods. The true purpose of this landscape feature is to protect a critical area for the infiltration and cleansing of storm water runoff and, ultimately, replenishment of the underground aquifers from which the University and community draw their water. The plantings in the Marsh Meadow were designed to minimize disturbance to the soil because a healthy and intact soil profile is critical to this process. Following the guided tour you will have time to wander on your own.

And, of course, no trip to the Penn State campus would be complete without a visit to the Creamery. We will make a stop here before heading back to the hotel in plenty of time for the Welcome Reception.

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 12, 2016

7:00 am Registration Open
7:30 am – 8:30 am Continental Breakfast with Exhibitors
8:30 am – 8:45 am Welcome: PAEP President
8:45 am – 10:15 am Breakout Session A

Breakout Session A-1
Understanding the FERC NEPA Process – Duane E. Peters, TRC

The Pennsylvania Department of Environmental Protection estimates between 4,000-5,000 miles of gas transmission lines will be built within the Commonwealth over the next 20 years. Typically these pipelines are connected to larger interstate transmission systems and fall under the jurisdiction of the Federal Energy Regulatory Commission (FERC) NEPA process. The development of this infrastructure will result in new career opportunities for Pennsylvania Environmental Professionals. This presentation will focus on the basics of the FERC NEPA process including the following topics: pre-filing and traditional filing processes, resource reports, third-party environmental assessments and environmental impact statements, public outreach, relevant regulations and recent court challenges, industry guidelines, formal training opportunities, and an overview of FERC.



SCHEDULE

Breakout Session A-2

Developing GIS Tools for Compensation Targeting and Restoration – David S. Goerman, Jr., PA DEP

An overview and discussion of two GIS tool development efforts underway. The first tool, known as the Watershed Resource Registry (WRR), establishes a compensatory mitigation priority setting and targeting tool for use by all compensation providers. The second tool, known as the PA Vegetation Community Predictor, seeks to improve restoration planning in Pennsylvania through better vegetation community targeting. The Department, USACE Baltimore District, and EPA Region 3 are collaborating on developing the WRR initially developed in Maryland for use in Pennsylvania. The Department, PA DCNR, and Western Pennsylvania Conservancy, through an EPA Region 3 Wetland Program Development grant, are collaborating on a tool originally developed in North Carolina and adapted in West Virginia for use in Pennsylvania.

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

10:30 am – 11:45 am Breakout Session B

Breakout Session B-1

Federal Highway Administration Update (FHWA): FAST Act – Camille A. Otto, FHWA

On December 4, 2015, President Obama signed the Fixing America's Surface Transportation Act, or "FAST Act" into law. The FAST Act is the first long-term transportation bill enacted in more than ten years, and will provide long-term funding certainty for surface transportation. One focus area within the FAST Act is accelerated project delivery, which includes changes to the environmental process, as well as the overall project delivery process. This presentation will explore some of these changes, including upcoming rulemakings and regulation changes, policy changes, and more.

Breakout Session B-2

A Blueprint for Community-Wide Energy Independence – Stacy A. Richards, SEDA-Council of Governments, Energy Resource Center and Paul A. Williams, Selinsgrove Borough

Since 2009, SEDA-COG's Energy Resource Center has designed and delivered energy reduction programs that assist entire communities to first identify and then reduce their energy consumption and costs. The New Berlin Energy Independence Project in Union County documented a 10 percent reduction in energy use in the small Union County community, equating to more than \$1 million being retained within that community through 2018. SEDA-COG is currently assisting the boroughs of Selinsgrove in Snyder County and Millheim in Centre County to implement similar community-wide programs. Based on the success of the New Berlin project, in 2013 SEDA-COG authored the how-to manual *Energizing Small Communities: A Guide to Greater Energy Independence and Economic Resiliency* and its appendix of methodologies and document templates to serve as a blueprint for other communities to retain wealth and improve the environment through energy reduction and locally-owned renewable energy projects. Both the New Berlin Energy Independence Project and the *Energizing Small Communities* guide received Innovation Awards from the National Association of Development Organizations.

12:00 pm – 1:30 pm Luncheon and Presentation of Awards

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 2016.

1:30 pm – 2:15 pm Breakout Session C



SCHEDULE

Breakout Session C-1

An Overview of the Compensation Banking Approval Process in PA

– David S. Goerman, Jr., PA DEP and Shelby Freyeremuth, PA DEP

An overview of the Department's requirements and standard operating procedures for obtaining the approval to operate and construct mitigation banking in the Commonwealth will be provided with time allotted for follow-up questions. Topics covered will include the structure and types of state authorization required, roles and responsibilities, and Interagency Review Team coordination among others.

Breakout Session C-2

Every Voice Counts: Engaging Low-Income and Minority Communities in the I-80 Reconstruction Project

– Marc Radell, AECOM

PennDOT Engineering District 5-0 is proposing full roadway reconstruction, widening, and interchange reconfiguration along 3.5 miles of Interstate 80 within eastern Monroe County. The project will pass through several minority and/or low-income communities. This presentation will describe how PennDOT has addressed concerns regarding Environmental Justice populations throughout the environmental clearance process. Specifically, it will cover how the District identified low-income and minority populations, consulted with community organizations and local officials, engaged the public through different outreach activities, and determined the potential impacts of different design alternatives on EJ communities. By following this process, PennDOT met both the spirit and letter of its EJ guidelines, Every Voice Counts.

2:15 pm – 2:30 pm

Break

2:30 pm – 3:15 pm

Breakout Session D

Breakout Session D-1

Pennsylvania Conservation Explorer – Kent Taylor, PA DCNR Bureau of Forestry

This session will introduce users to the new PA Conservation Explorer, an online tool for conservation planning and PNDI environmental review. The tool provides greater access to biodiversity information, leading to better planning and fewer project impacts. Participants will learn how to generate custom conservation planning reports and obtain PNDI receipts for pre-screening land use changes and ground-disturbing projects. Registered users can explore areas for potential impacts to rare, threatened and endangered species habitats. Topics covered in this breakout session will include: mapping, searching and changing base layers; displaying and sharing conservation information for planning and environmental reviews; querying the map for protected lands, species habitats, and high-value surface water resources; compiling natural heritage area inventory reports; importing shapefiles and map services to perform project screenings; previewing screening areas and analysis layers; viewing submitted projects and their status; and uploading project documents for review.

Breakout Session D-2

Implementing Wetland, Stream and Species Mitigation Projects in PA: Experiences from a Leading Practitioner – Conor Gillespie, Resource Environmental Solutions, LLC

Since receiving the initial operating permit for Mitigation Banks in Pennsylvania, RES has delivered thousands of stream linear feet and hundreds of restored wetland acres to enable client project permits. Each permit had its own governing regulatory authorities and required one sort of compensatory mitigation or another, often multiple types. The RES team has now satisfied permit requirements by executing wetland, stream, and habitat mitigation solutions across the Commonwealth. RES, the nation's leading provider of compensatory mitigation solutions, will share our experiences by discussing project challenges and successes in delivering both watershed-scale mitigation bank projects and multi-client turnkey mitigation sites through our expanded Pennsylvania-based team.



SCHEDULE

3:15 pm – 3:30 pm

Break

3:30 pm – 4:15 pm

Breakout Session E

Breakout Session E-1

Advance Mitigation of Historic Bridges – *Dr. Ira C. Beckerman, PennDOT and Kara Russell, PennDOT*

PennDOT is currently developing a comprehensive management plan for the national register eligible metal truss bridges that are state and locally owned but whose projects are funded by FHWA and/or PennDOT. Key to successful management is pushing decisions on rehabilitation or repurposing (rehabilitation with the intent to move the bridge to a non-vehicular use) into the planning phase of project delivery; and, to marry advance mitigation concepts with programmatic approaches under Section 106 of the National Historic Preservation Act. Members of the PennDOT Cultural Resources Unit will lay out an approach that maximizes the preservation of significant historic bridges in an environment that under traditional project delivery schemes offers few opportunities for preservation.

Breakout Session E-2

Glade Run Lake Restoration – *David J. Parise, Civil & Environmental Consultants, Inc.*

Glade Run Lake, approximately 52 acres, is located in Middlesex Township, Butler County, Pennsylvania. In July 2011, the lake was drawn down due to deficiencies in the dam. Currently, the exposed lake bottom is barren with the exception of a few small trees, brush, and warm season grasses that have grown over the past four years. In the fall of 2011, Glade Run Lake Conservancy (GRLC) was established to restore and improve the lake and the surrounding and associated habitat. Specifically, one of the main objectives of GRLC is to promote and sustain a thriving fish community within Glade Run Lake by installing various fish habitat structures within portions of the lake and by excavating artificial stream channels in the shallow, eastern portion of the lake. The fish habitat structures will provide cover for fish and increase angler success, while the artificial stream channels will provide deep water habitat adjacent to shallow water areas. The deep water habitat will act as a corridor for fish movement that would help promote much higher use of the shallow water areas by game fish for foraging and spawning. Through its members, various business sponsors, participating volunteers, and support from the Commonwealth of Pennsylvania and the Pennsylvania Fish & Boat Commission (PAFBC), GRLC managed to gather the necessary funds to reconstruct the dam and spillway, as well as complete the fish habitat improvement plan. The fish habitat improvements began in September 2015 and are on-going. Dam and spillway construction began in August 2015 and is also on-going. Both projects are anticipated to be completed in spring 2016, at which time the lake will begin to “refill”. Upon “refill” in 2016, the PAFBC will begin fish stocking and anticipates the lake being open for the first day of trout season, April 2017.

4:15 pm – 4:30 pm

Break

4:30 pm – 5:45 pm

Joint Session

The State of PennDOT: Project Announcements and Updates – *Leslie S. Richards, Secretary PA Department of Transportation & An Overview of the Pennsylvania State Programmatic General Permit-5* – *Wade B. Chandler, USACE Baltimore District and Sidney J. Freyermuth, PA DEP*

Secretary Richards will discuss the current state of PennDOT and also give an update on current projects and those on the horizon planned for the future. Also, a streamlined permit application process, through implementation of a State Programmatic General Permit, has existed in Pennsylvania since March, 1995. For the last four years, the majority of regulated activities in Pennsylvania have received federal authorization under Section 10 of Rivers and Harbors Act and/or Section 404 of the Clean Water Act through the Pennsylvania State Programmatic General Permit-4, which expires on June 30, 2016. The three Corps Districts in Pennsylvania and the Pennsylvania Department of Environmental Protection have been working on development of a new Pennsylvania State Programmatic General Permit (PASPGP-5), which would continue the streamlined review process in Pennsylvania, and be effective July 1, 2016. The presenters will provide an update on the development of PASPGP-5, highlight the differences between PASPGP-4 and PASPGP-5, and welcome follow-up questions as time allows.



SCHEDULE

- 6:00 pm – 6:30 pm** Reception with Exhibitors
6:30 pm – 8:30 pm Annual Banquet with Keynote Speaker

DCNR: Looking Back, Looking Ahead – *Cindy Adams Dunn, Secretary of PA DCNR*

Secretary Dunn will talk about some of Pennsylvania and the department's conservation history and the land and infrastructure legacies that it is building upon today. Looking ahead, she'll discuss several of the strategic initiatives that DCNR is focusing its work around, including protecting water resources, constructing green buildings and adopting sustainable practices and addressing climate change.

FRIDAY | MAY 13, 2016

- 7:30 am** Registration Open
7:30 am – 8:30 am Continental Breakfast with Exhibitors
8:30 am – 9:45 am Breakout Session F

Breakout Session F-1

Building a Successful Local Partnership: The Lehigh Valley Land Recycling Initiative
– *Andrew J. Kleiner, Lehigh Valley Economic Development Corporation*

The Lehigh Valley Land Recycling Initiative (LVLRI), the redevelopment arm of the Lehigh Valley Economic Development Corporation, has spent the last 15 years leading a two-county, 62-municipality region in Eastern Pennsylvania in brownfield development. The key to the success of LVLRI—that has seen 300 acres of contaminated land remediated, over \$400 million dollars of leveraged funding based on years of successful EPA grant wins, and 1,200 jobs created—is an advisory committee that is manifested through strong local partnerships. Municipal officials from cities, boroughs, townships, and counties; brownfield experts; regulatory agency representatives; private developers; engineers; and consultants compose the LVLRI committee. LVLRI provided EPA Hazardous Assessment Dollars to fund the due diligence needed to create two major green infrastructure projects in the cities of Bethlehem and Easton in eastern Pennsylvania. The South Bethlehem Greenway converted a former rail line through a key commercial corridor into a vibrant park, key regional trail asset, and the setting for numerous large-scale annual community events. The Karl Stürner Arts Trail in Easton connects a major brownfield redevelopment site to Easton's revitalized downtown through a Creekside trail dotted with sculpture and representations of Easton's burgeoning art scene. This presentation will provide an overview and a history of both LVLRI and these projects as well as an examination of what these assets create throughout the Lehigh Valley through the lens of holistic economic development.



SCHEDULE

Breakout Session F-2

Minimizing and Restoring Stream and Wetland Impacts on Pipeline Construction Projects

–Paul A. Kanouff, *Civil & Environmental Consultants, Inc.*

Pipelines are routinely installed under streams and wetlands, resulting in temporary impacts to these resources. Section 404 of the Clean Water Act requires impacted streams, wetlands, and other waterbodies to be either restored or replaced. However, if the streams and wetlands are not restored correctly, the impacts can be permanent. The success of stream and wetland restoration is dependent on understanding the conditions that created the resources being impacted, as well as how the construction of the project will affect those conditions. The purpose of this presentation is to assist natural gas operators with project planning, to provide instruction on construction and restoration methods, and to stress the importance of monitoring. The presentation will also include information on the regulatory aspects of stream and wetland restoration.

- 9:45 am – 10:00 am Break
- 10:00 am – 11:00 am Breakout Session G

Breakout Session G-1

Rooftop Agriculture: Elevating Food Systems In the 21st Century

– Lauren N. Mandel, *EAT UP, LLC and Andropogon Associates, Ltd.*

Rooftop agriculture offers urbanites the taste of fresh produce grown close to home, but to what extent do these farms and gardens contribute to a city’s food system? This talk digs into food system basics; urban land use; and North American rooftop food production methods, benefits, industry trends, and two multi-farm case studies.

Breakout Session G-2

Challenges and Successes in Permitting a New Flood-Retarding Structure in Pennsylvania

– Deborah K. Poppel, *CWB, AECOM*

The Fort Washington Business Park and interchange of the Pennsylvania Turnpike in Upper Dublin Township, Montgomery County, has been subject to significant flooding problems for decades. To help this issue, Upper Dublin Township arranged for the design and construction of two new flood-retarding structures along tributaries to Rapp Run. This project involved an interdisciplinary team of professionals from Colorado, Virginia, Maryland, and Pennsylvania and was successfully permitted and built within three years. The challenges to obtain the first regulatory approvals for a new “dam” in Pennsylvania since 1985 from the U.S. Army Corps of Engineers, Pennsylvania Department of Environmental Protection, Division of Dam Safety, and Montgomery County Conservation District will be discussed. Archeology, bog turtles, red-belly turtles, legacy sediment, visualization assessments, and the creation of a compensatory wetland mitigation site on a former soccer field were all components to creating structures that successfully control flood waters without adversely impacting the surrounding environment.

- 11:15 am - 12:30 pm General Membership Meeting/Board of Directors Meeting
- 12:30 pm Conference Adjourns





ONSITE SERVICES & REGISTRATION

HOTEL

Toftrees Resort and Conference Center

One Country Club Lane
State College, PA 16803
(814) 234-8000
www.toftrees.com

Group Room Rate

\$109.00 Single/Double Occupancy (plus applicable taxes). If you require a government per-diem hotel rate, please submit your request to info@paep.org.

Reservations

To make your room reservation, please call (814) 234-8000 and mention PAEP to receive the group rate. Or you can make your reservation on-line using the following link:

<http://bookings.ihotelier.com/bookings.jsp?groupID=1599487&hotelID=97834>

Reservations must be made no later than Tuesday, April 12. 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. If you require a government per diem rate, please send an email stating this to info@paep.org. Be sure to call early! Directions can be found on the hotel web site www.toftrees.com.

IMPORTANT DEADLINES

April 12: Toftrees Resort reservation cut-off date

April 22: Registration form due to PAEP

April 29: 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 Opening Reception and Quizzo event on Wednesday, May 11, and all sessions and meals on Thursday, May 12, and Friday, May 13. This fee does not include the Arboretum Tour.

Non-Member Full Registration: Includes PAEP Membership fee for 2016.

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

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

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

Continuing Education: Although PAEP conferences are not officially certified to provide credit, attendees will be provided documentation of their attendance and training in the form of a certificate, upon request.

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 display area. Please contact either Deborah Poppel, Deborah.poppel@aecom.com / (610) 8323597, or Marc Radell, marc.radell@aecom.com / (610) 832-2458, for information.

Cancellations: All cancellations must be made in writing to PAEP and received by April 29, 2016 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.'

2016 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 days/ activities you will be attending	Type of Registration	Member Rate	Student Rate	Non-Member Rate	Total Due
_____	Full Conference*	\$295.00	\$160.00	\$365.00	\$ _____
_____	Wed, May 11 Arboretum Tour	\$ 20.00	\$ 15.00	\$ 35.00	\$ _____
_____	Wed, May 11 Reception	\$ 35.00	\$ 35.00	\$ 45.00	\$ _____
_____	May 12 One-Day Rate	\$230.00	\$ 75.00	\$275.00	\$ _____
_____	May 12 Reception Dinner	\$ 50.00	\$ 35.00	\$ 60.00	\$ _____
_____	May 13 One-Day Rate	\$ 120.00	\$ 25.00	\$180.00	\$ _____
_____	Late Fee after April 22	\$ 25.00	N/A	\$ 25.00	\$ _____
Total Amount Enclosed					\$ _____

* Full Registration includes attendance at each of the day's events and meals for that day. It does NOT include the Arboretum Tour.

Is this your first PAEP conference? _____

_____ 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 serve as a 'guide' and help introduce a student attendee to the program and other attendees.

► PAYMENT

Please select: _____ Check Enclosed (payable to PAEP) _____ MasterCard _____ Visa

Credit Card # _____ 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)

_____ May 11 Wednesday Opening Reception _____ May 12 Thursday Dinner _____ May 13 Breakfast

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

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



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