



2016

PENNSYLVANIA'S
Abandoned Mine Reclamation

CONFERENCE

"Economics and Environment"



www.arippa.org



Abandoned Mine Reclamation

June 22-23, 2016
Kovalchick Convention and
Athletic Complex, Indiana
University of Pennsylvania
Indiana, PA

Welcome

Dear 2012 Conference Attendee,

On behalf of the Planning Committee, welcome and thanks for joining us.

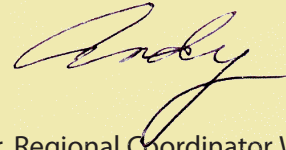
This marks our 18th Anniversary. With the theme, "Economics and Environment", this year's conference intends to explore how reclamation improves local economies. We will also have several discussions about proposed legislation that could benefit Pennsylvania's reclamation efforts through increased funding.

The conference will provide a day and a half forum for the dissemination of information and encourage discussions between industry, watershed groups, and decision makers that can help to further innovations in public policy, abandoned mine reclamation, remediation, and restoration.

The conference website, www.treatminewater.com, serves as an integral companion to the conference itself. For example, presentation abstracts, presenter biographies, and other supplemental materials are permanently archived there to serve as a resource. The website serves as the conference's year to year memory.

Networking and relationship-building are vital to our reclamation work. We've structured the conference to have long breaks, displays, meals encouraging interaction, and a Wednesday Pre-conference tour featuring abandoned mine problems and solutions in the local area.

Have a great and productive time and... Let the conference begin!



Andy McAllister, Regional Coordinator WPCAMR

2016 Exhibitors

EPCAMR & WPCAMR
Evergreen Conservancy
Kiski-Conemaugh Stream Team
Mountain Watershed Association
ARIPPA
Evergreen Conservancy
Andrew Putt of Mansfield University
Stream Restoration Inc
Trout Unlimited

Hy-Tech Mushroom Compost, Inc
Harsco Metals
Skelly & Loy
Pennsylvania Aggregates and Concrete Association
St Francis, Center for Watershed Research
and Service
H2 Environmental Services, LLC
Huber Breaker Preservation Society



Thanks for making the conference
possible!

2016 Planning Committee

- * Andy McAllister & Anne Daymut, Western PA Coalition for Abandoned Mine Reclamation, Greensburg PA (lead organization)
- * Robert Hughes & Michael Hewitt, Eastern PA Coalition for Abandoned Mine Reclamation, Ashley PA (co-lead organization)
- * Donna Wagner, PA Department of Environmental Protection, Harrisburg PA
- * Tom Grote, WPCAMR volunteer, Jennerstown PA
- * Glenn Florence, PA Department of Environmental Protection, Harrisburg PA
- * Cliff Denholm, Stream Restoration, Inc., Mars PA
- * Arielle Avishai, OSMRE, Pittsburgh PA

Who will be awarded the 2016

Mayfly Award?

Welded sculpture by:
Michael Bestwick, Fennelton PA



Wednesday - Schedule

| | |
|---------------|---|
| 8:00 - 9:15 | Registration (KCAC Lobby) 8:00 - 9:15am |
| 9:00 - 9:15 | Welcome (PNC Room): Andy McAllister, WPCAMR |
| 9:15 - 9:30 | BOARD THE BUS!!! Tour of Abandoned Mine Features in Northern Indiana County, PA PICK UP YOUR BOX LUNCH IN REGISTRATION AREA!!! |
| 9:30 - 10:30 | Indiana County Tourist Bureau, En-Route Presentation of "Indiana County Coal Mining History" |
| 10:30 - 12:00 | Tom Clark, Susquehanna River Basin Commission, "Tour of the Bear Run Watershed" |
| 12:30 - 1:45 | Lunch (Tanoma Wetlands) 12:30 - 1:00pm Cindy Rogers, Evergreen Conservancy, "Tour of Tanoma Wetlands" |
| 2:00 - 3:00 | Shawn Simmers, Cambria CoGen, "Tour of Ernest Waste Coal Removal Site" |
| 3:30 - 4:00 | Brooke Esarey, Indiana County Conservation District, "Tour of Waterworks Conservation Area" |
| 4:15 - 5:00 | Tour of Levity Brewing Co. |
| 6:00 | Networking and Cash Bar (PNC Room) |
| 6:30 | Buffet Dinner (PNC Room) |

5

Wednesday

**Join us at Wednesday's
Banquet Dinner and
place a bid during the
silent auction.**



The conference website,
www.treatminewater.com,

and the "PA Abandoned Mine Reclamation Community" on Facebook
are integral companions to the conference. They are the conference's permanent
record and provides valuable extras to the presentations, useful for future reference.

Wednesday - Synopses

| | |
|---------------|--|
| 9:15 - 9:30 | <p>BOARD THE BUS!!! And Don't Forget to PICK UP YOUR BOX LUNCH IN THE REGISTRATION AREA!!!</p> <p>Tour of Abandoned Mine Features in Northern Indiana County, PA</p> |
| 9:30 - 10:15 | <p>Indiana County Tourist Bureau, En-Route Presentation of "Indiana County Coal Mining History"</p> <p>En-route presentations and discussions about the history of coal mining and how subsequent reclamation has impacted the tourism and economics of Indiana County will be lead by the Indiana County Tourist Bureau.</p> |
| 10:45 - 11:30 | <p><i>Tom Clark, Susquehanna River Basin Commission, "Tour of Bear Run, a Sub-Watershed of the West Branch Susquehanna"</i></p> <p>The first stop on the tour is the incredible stream recovery of Bear Run (Sidney Rd., Glen Campbell), a tributary to the West Branch Susquehanna on which the Susquehanna River Basin Commission, the Indiana County Conservation District, the PA Game Commission, and many other partners have been working for over a decade. Tom Clark of SRBC will lead discussions and share his secret to success at Bear Run.</p> |
| 12:30 - 1:45 | <p>Cindy Rogers, Evergreen Conservancy, "Tour of Tanoma Wetlands"</p> <p>Lunch will be enjoyed at Tanoma Wetlands, (Tanoma Rd., Clymer) where Cindy Rogers of Evergreen Conservancy will share some of the remarkable AMD remediation and clean energy techniques they have meshed together.</p> |
| 2:00 - 3:00 | <p>Shawn Simmers, Cambria CoGen, "Tour of Ernest Waste Coal Removal Site"</p> <p>We will tour the admirable waste coal pile reclamation site called Ernest (PA 110, Creekside), which will be lead by Shawn Simmers of Cambria Cogen Co.</p> |
| 3:30 - 4:00 | <p>Brooke Esarey, Indiana County Conservation District, "Tour of Waterworks Conservation Area"</p> <p>Time permitting, the tour will then visit the Waterworks Conservation Area (Waterworks Rd., Indiana) where Adam Cotchen and Brooke Esarey of the Indiana County Conservation District will discuss the OM&R needs of lime dosing silos.</p> |
| 4:15 - 5:00 | <p>Tour of Levity Brewing Co.</p> <p>Let's not leave out time for fun! We will tour Indiana, PA's first Microbrewery and get a couple free samples. You are welcome to purchase growlers. www.levitybrewing.com</p> |



Pennsylvania Aggregates and Concrete Association

Thursday - Schedule

Thursday

| | | | |
|---------------|--|--|---|
| 7:00 - 8:30 | Registration and Light Breakfast (KCAC Lobby) 7:00 - 8:30am | | |
| 8:30 - 8:45 | Welcome (PNC Room): Andy McAllister, WPCAMR | | |
| 8:45 - 9:30 | KEYNOTE ADDRESS: John Quigley, Secretary, PA Department of Environmental Protection, "Economics and Environment" | | |
| Track | Track 1 (PNC Room) | Track 2 (Conference Room 6) | Track 3 (Conference Room 7) |
| 9:30 - 10:15 | <i>Rachel Kester, Trout Unlimited, "Long-Term Maintenance of Passive Treatment Systems: A Jobs Analysis"</i> | <i>Anne Daymut, WPCAMR, "Non-Profit Lobbying Rules"</i> | <i>Ryan Ellis, IMCC, "State Regulatory Authority Perspectives on AML-related Legislation of 114th Congress"</i> |
| 10:15 - 10:45 | Break (KCAC Lobby) 10:15 - 10:45am | | |
| | Track 1 (PNC Room) | Track 2 (Conference Room 6) | Track 3 (Conference Room 7) |
| 10:45 - 11:30 | <i>Tiff Hilton, WOPEC, "Manganese—Misunderstood, Mis-Regulated, & Mistaken for a Problem"</i> | <i>Brian Bradley, PA DEP, "Pennsylvania AML/AMD Program and Funding Overview"</i> | <i>Mike Korb, MikeKorb LLC, "An Anthacite Coal Heritage Area?"</i> |
| | <i>Mark Killar, Western Pennsylvania Conservancy, "Sewickley Creek Cost/Benefit Analysis"</i> | <i>Elizabeth Ricketts Marcus, IUP "Profits, Promises, and Patriotism: The Impact of World War I on Western Pennsylvania's Coal Economy"</i> | <i>Lukus Monnette, OSM "Drones and Their Use in Environmental Monitoring"</i> |
| 11:30 - 12:15 | | | |
| 12:15 - 1:30 | Lunch Speaker: Tim Danehy, Stream Restoration Incorporated "AMD in the Bolivian Highlands" (PNC Room) 12:15 - 1:30pm | | |
| Track | Track 1 (PNC Room) | Track 2 (Conference Room 6) | |
| 1:30 - 2:15 | <i>Melissa Reckner and Eric Null, Kiski-Conemaugh Stream Team, "State of the Kiski-Conemaugh River – Changes in Last 16 Years"</i> | <i>Melissa Meade, Temple University, "Dialogical Communication and Digital Citizenship in the Anthracite Coal Region of Northeastern Pennsylvania"</i> | |
| 2:15 - 3:00 | <i>Len Lichvar, Somerset Conservation District, "Economics of Conservation Recreation"</i> | <i>Kevin Kraus, St. Francis University, "Trompe Sizing Guidance"</i> | |
| 3:00 - 3:30 | Break (KCAK Lobby) 3:00 - 3:30pm | | |
| 3:30 - 4:15 | <i>Greg Shustrick, Somerset Conservation District, "Rock Tunnel Passive Treatment System - Design Modifications Through the Years"</i> | <i>Vince Brisini, Olympus Power, LLC., "Making Sense of SENSE"</i> | |
| 4:15 - 5:00 | <i>Joe Pizarchik, Office of Surface Mine Reclamation and Enforcement, "OSMRE Perspective"</i> | | |

Thursday - Synopses



8:45 KEYNOTE ADDRESS: Patrick McDonnell, Acting Secretary, Pennsylvania Department of
- Environmental Protection
9:30 "Economics and Environment"

Currently serving as Acting Secretary for PA DEP, Patrick McDonnell was most recently the director of policy for the PA DEP, where he oversaw the agency's regulation and policy development processes. In addition, Mr. McDonnell ran the State Energy Office and was charged with coordination of renewable energy and energy efficiency issues. Mr. McDonnell also served as executive policy manager for former Commissioner Pamela A. Witmer of the Pennsylvania Public Utility Commission, focusing on electric, natural gas and water issues as well as cybersecurity and the impact of environmental regulation on energy markets.

9:30 *Rachel Kester, Trout Unlimited, "Long-Term Maintenance of Passive Treatment Systems: Across*
- *Pennsylvania A Jobs Analysis"*

10:15 It is vitally important that key policy makers understand the importance and benefits of AMD cleanup, and in particular the economic benefits. This presentation will highlight the findings from a recently completed study that focused on job creation around the long-term maintenance of passive treatment systems across Pennsylvania.

Anne Daymut, WPCAMR, "Non-Profit Lobbying Rules"

The rules governing what non-profits are allowed to do with respect to legislation can be confusing and downright frightening with the threat of losing your non-profit status if you do the wrong thing. Anne will cover the basic definitions and rules of advocacy and lobbying.

Ryan Ellis, IMCC, "State Regulatory Authority Perspectives on AML-related Legislation of 114th Congress"

The 114th Congress has featured a significant amount of legislative activity related to Abandoned Mine Lands (AML). The Gold King Mine Spill in August of 2015 brought AML to the forefront of national attention, invigorating consideration of the many-faceted dilemma posed by the AML sites.

10:45 *Tiff Hilton, Working On Peoples Environmental Concerns (WOPEC), "Manganese—Misunderstood,*
- *Mis-Regulated, & Mistaken for a Problem"*

11:30 Manganese limits set forth by the Clean Water Act were not based on the toxicity of Manganese. And, as it turns out, the side effects from the treatment for manganese removal is a problem, not the Manganese. West Virginia adopted what is known as the "Five Mile Rule", which stated that the human health criterion for manganese would only apply within a five mile zone up-stream from a public intake. This action, along with the existing available tools such as Alkaline Mine Drainage limits (No manganese) and Post Mining Limits (Report Only Limits) helped to substantially reduce the adverse effects created from the treatment itself.

Brian Bradley, PA DEP, "Pennsylvania AML/AMD Program and Funding Overview"

The topics presented will include: BAMR's Fund Management Responsibilities and Balances; Re-unification of the AML and AMD programs under BAMR's umbrella; Present status of the AMD program and plans for moving forward; Updates on new and developing AML/AMD programs including the \$90 million AML Economic Enhancement and Reuse Pilot Program, PA's AML Emergency Program, and the RECLAIM Act (H.R. 4456); and, highlights on a few of the major AML hazard projects BAMR currently has underway.

Mike Korb, MikeKorb LLC, "An Anthracite Coal Heritage Area?"

Mr. Korb presents the case for an organization dedicated to marketing, preserving, and interpreting the anthracite region's industrial heritage, cultural diversity, the labor traditions and capitalist innovations, creation of landscapes and ecosystems, and its people and their stories.

Thursday - Synopses

Thursday

| | |
|---------------------|--|
| 11:30 - 12:15 | <p><i>Mark Killar, Western Pennsylvania Conservancy, "Sewickley Creek Cost/Benefit Analysis"</i></p> <p>In an effort to assist in the development of a cost/benefit analysis for AMD projects being proposed for a qualified hydrologic unit watershed, Western Pennsylvania Conservancy worked with Hedin Environmental, through a technical assistance grant provided by Trout Unlimited's Eastern Abandoned Mines Program, to develop a treatment cost calculator, which could compare costs on a variety of AMD treatment types.</p> |
| | <p><i>Elizabeth Ricketts Marcus, Indiana University of Pennsylvania, "Profits, Promises, and Patriotism: The Impact of World War I on Western Pennsylvania's Coal Economy"</i></p> <p>Increased demand for coal during World War I brought industrial expansion and robust profits for coal operators, while miners were asked to make patriotic wage sacrifices in return for promises of post-war economic prosperity. Soaring inflation exacerbated by a sharply contracting demand for coal in the immediate post-war period culminated in an explosive clash between labor and capital in 1919 over wages, unionism, and the definition of Americanism.</p> |
| | <p><i>Lukus Monnette, OSM "Drones and Their Use in Environmental Monitoring"</i></p> <p>The Office of Surface Mining Reclamation and Enforcement (OSM), in cooperation with the US Geological Survey and BLM, conducted aerial inspections over the past several years, using a small unmanned aerial system (SUAS). With this technology, SMRCA personnel can easily determine if features meet applicable State and Federal laws and regulations or need further investigation.</p> |
| 1:30 - 2:15 | <p><i>Melissa Reckner and Eric Null, Kiski-Conemaugh Stream Team, "State of the Kiski-Conemaugh River – Changes in Last 16 Years"</i></p> <p>The Conemaugh Valley Conservancy is working to update the Kiski-Conemaugh River Basin Conservation Plan, published in 1999. It is documenting the status of the 121 recommendations made in the Plan and is quantifying chemical and biological changes in key waterways over the last 16 years due to the numerous restoration projects that transpired as a result of the Plan and watershed initiatives. This presentation will highlight preliminary findings, trends, and areas of concern.</p> |
| | <p><i>Melissa Meade, Temple University, "Dialogical Communication and Digital Citizenship in the Anthracite Coal Region of Northeastern Pennsylvania"</i></p> <p>Emerging from doctoral research and adding infrastructure to the fragmented digital footprint of the Anthracite Region, Melissa created the "Anthracite Region" Facebook page and the a website as a public digital collaboratory wherein residents engage in community dialogue. This talk will discuss issues of environmental and economic concern expressed by residents.</p> |
| 2:15 - 3:00 | <p><i>Len Lichvar, Somerset Conservation District, "Economics of Conservation Recreation"</i></p> <p>Investing in natural resource conservation provides an economic return that is not always easy to determine or confirm and is not often focused on or fully realized by those who pursue resource conservation and all those who benefit from that return on investment. This program will provide a few different methods and view points and data to understand and appreciate that return on investment in simple everyday terms.</p> |
| | <p><i>Kevin Kraus, St. Francis University, "Trompe Sizing Guidance"</i></p> <p>A trompe, an ancient technology that found its roots in the Catalan Forge in Spain, has seen a revival in recent years to treat acid mine drainage. This technology harnesses the power of hydraulics and hydrology by passively compressing air via the use of falling water, using no moving parts. A group of recently-graduated students from Saint Francis University have done extensive research in attempt to procure sizing guidance and parameters for the installation of this passive technology..</p> |

Thursday - Synopses

3:30
- 4:15

Greg Shustrick, Somerset Conservation District, "Rock Tunnel Passive Treatment System - Design Modifications Through the Years"

The Rock Tunnel Passive Treatment System is located in Somerset County, PA and was one the first of its kind to be constructed in the Stonycreek River watershed. The original system was completed in 1993, however site conditions were a limiting factor to appropriately size the system to the volume of mine water flows. Since 1993 the system has undergone two major alterations to enhance water treatment. The Somerset Conservation District has been involved with this project since its inception and has worked diligently to utilize new technologies at this site. The 2014/15 reconstruction of the Rock Tunnel PTS is an example of how these efforts have allowed move closer to our goal.

Vince Brisini, Olympus Power, LLC., "Making Sense of SENSE"

The Satisfying Energy Needs and Saving the Environment Act or "SENSE Act" addresses the sulfur dioxide (SO₂) Cross-State Air Pollution Rule (CSAPR) allowance issue and the Mercury and Air Toxics (MATS) acid gas standard issues for bituminous coal refuse to energy plants. This is accomplished in a fashion that preserves the CSAPR SO₂ budget by reallocating SO₂ allowances from retired units and units of fuel switched from coal to natural gas to the bituminous coal refuse fired units. In this presentation, learn how the SENSE Act could benefit your community.

4:15 -
5:00

Joe Pizarchik, Office of Surface Mine Reclamation and Enforcement, "OSMRE Perspective"

Joe Pizarchik is the 10th Director of the U.S. Department of the Interior's Office of Surface Mining. An Indiana County, Pennsylvania native, Joseph Pizarchik attended the Pennsylvania State University, first at the Altoona Campus and then graduating from University Park in 1979. Pizarchik was one of the authors of Pennsylvania's Environmental Good Samaritan Act and provided counsel during the development and implementation of the Good Samaritan program. Pizarchik is also credited with helping clear the way for the sale of private mining property to the Families of Flight 93 to enable the construction of the national memorial, a project to which he remains committed.

5:00

Conference Ends

Door Prizes – Must be Present to Win!

Thursday LUNCH SPEAKER

Tim Danehy, BioMost

"AMD in the Bolivian Highlands"

The Bolivian highlands (Altiplano) are host to some of the world's richest mineral deposits. The Department of Potosí, Bolivia has been intensively mined for nearly five centuries, resulting in extensive environmental degradation and contamination of soil and water resources. In order to demonstrate a way to begin to restore this highly degraded landscape, a demonstration project has been established in a valley south of Cerro Rico (the world's richest silver deposit). The past and current activities have had to surmount a myriad of challenges from purely technical (e.g., lack of suitable equipment, road failures, work on extreme slopes, rainy season earth instability) to purely non-technical.

&

Presentation of Mayfly Award!

DEP's Bureau of Abandoned Mine Reclamation

Welcomes Attendees of the Annual Pennsylvania AMR Conference



Two Field Offices to Serve You:

2 Public Square
Wilkes-Barre, PA 18701
Phone: 570-826-2371
Fax: 570-826-2441

286 Industrial Park Road
Ebensburg, PA 15931
Phone: 814-472-1800
Fax: 814-472-1839



pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION

John Quigley, Secretary

Bureau of Abandoned Mine Reclamation
Rachel Carson State Office Building
P.O. Box 8461
Harrisburg, PA 17105
Phone: 717-783-2267
Fax: 717-783-7442