



Pennsylvania's 11th Annual

Abandoned Mine Reclamation & Coal Mining Heritage Conference

**"Challenges and Opportunities
in Interesting Times"**

*July 13th—16th, 2009
Living and Learning Center
University of Pittsburgh
Johnstown, PA*

Please visit www.TreatMineWater.com following the conference for proceedings

WELCOME

Dear 2009 Conference Attendee,

Thank you for joining us at our 11th Annual Conference.

This year's conference theme is focused around renewing the collective energy of our state-wide patch town heritage and culture to become the new green communities of the future, as well as, looking into alternative renewable energy sources that can potentially be derived from abandoned mine lands and underground mine water pools.



Attendees will be able to come away from this year's conference with information, not only on alternative energy sources, but on ways in which they can begin to reduce costs to their overall operation & maintenance of AMD treatment systems and establish relationships with corporations from within and outside of PA to reclaim additional acres of abandoned mine lands through public-private partnerships for the betterment of their home watersheds.

We hope that for those of you who were able to join us on our optional Western PA AMD Tour of the Stonycreek Watershed to remediation sites, reclamation projects, alternative energy projects, and other significant places of interest such as the Flight 93 Memorial to remind us of our coal heritage, our heroes, and our culture will stay with you as you enjoy the rest of the Conference. During the week there will be presentations related to abandoned mine reclamation, AMD, funding options, technical assistance, and on coal heritage and history. The final day will conclude with an optional tour of the West Branch Susquehanna River AMD Remediation efforts sponsored by Trout Unlimited. Seats will fill up fast. We hope you enjoy this year's conference and walk away with a "mind pool" of knowledge as we pool our minds together once again to tackle PA's #1 non-point source pollutant, AMD. We look forward to seeing you again next year!

-On behalf of the 2009 Conference Planning Committee,

Robert E. Hughes



Monday Field Trip to
Stonycreek Watershed

The tour will start at 12:30 sharp on Monday, July 13th (the day before the main conference) and will leave from the front of the Living and Learning Center. Bring a camera, wear old clothes and walking shoes.

Thanks for making the conference possible!



Our Sponsors

- *Pennsylvania Department of Environmental Protection
Office of Mineral Resources Management & Bureau of Watershed Management-319 PG
- *Foundation for Pennsylvania Watersheds
- *US Dept of the Interior
Office of Surface Mining Reclamation & Enforcement
- *PA Environmental Digest
- *Gander Mountain, Johnstown Store
- *Gannett Fleming
- *Mackin Engineering Company
- *Trout Unlimited
- *Susquehanna River Basin Commission

and
all our
Presenters

2009 Planning Committee

- ***Robert Hughes, Michael Hewitt, Shawn Jones & Kyra Norton**
Eastern PA Coalition for Abandoned Mine Reclamation (Lead Organization)
- ***Bruce Golden & Andy McAllister**
Western PA Coalition for Abandoned Mine Reclamation (Co-Lead Organization)
- ***Arielle Avishai**, US Office of Surface Mining and Reclamation Enforcement, Pittsburgh
- ***Shawn Busler**, Stream Restoration Inc.
- ***Donna Carnahan**, PA DEP Watershed Management, Non-Point Source Section, Harrisburg
- ***Tom Grote**, Stream Restoration Inc.
- ***Bernie Hoffnar**, Six Mile Run Watershed Association
- ***Mark Killar**, Western PA Conservancy, Freshwater Conservation Program, Blairsville
- ***Beth Kern**, PA DEP Bureau of District Mining Operations, Ebensburg
- ***Melissa Reckner**, Kiski-Conemaugh Stream Team
- ***John Stefanko**, PA DEP Mineral Resources, Harrisburg
- ***Lois Uranowski**, US Office of Surface Mining & Reclamation Enforcement, Pittsburgh

Tuesday -- Schedule

Tuesday July 14, 2009

7:00—8:30	Registration 7:00—8:30 & Breakfast	
8:30—8:45	W e l c o m e !	
8:45—9:30	Opening Speaker: Bob Bastian—State Representative (Retired) for Bedford Co. and Somerset Co.	
Track	Abandoned Mine Reclamation	Coal Mining Heritage
9:30—10:15	M. Quinn: Economic Impact of AMD Cleanup in the Greater Johnstown Area	J. Gilmore: Land and Mapping Services
10:15—10:45	Break (beverages)	
10:45—11:30	N. Wolfe: Limestone Upflow Pond Optimization	G. Firely: Taylor Colliery Historic Brownfields Redevelopment
11:30—12:15	A. Wolfe, E. Robertson, R. Koch, M. Killar: Technical Assistance Grant (TAG) Panel	J. Dougherty: The Rossiter Strike Injunction of 1927
12:15—1:30	Lunch	
Track	Abandoned Mine Reclamation	Coal Mining Heritage
1:30—2:15	K. Brady: Coal Ash as a Beneficial Use: Not all ashes are created equal	D. Roffe-Hammond et. al. : OSM/VISTA Initiative: Anthracite Heritage Alliance Case Study
2:15—3:00	D. Burtner, C. Cash: The Geothermal Project at Wesley AME Church-Pittsburgh	A. Cotchen: OSM/VISTA Initiative: Crooked Creek Case Study
3:00—3:30	Break (food)	
3:30—4:15	B. Reichert: AMD Water Quality Improvement Easement	D. Stamm: Lime Doser Consulting
4:15—5:00	D. Hamilton, R. Burkert, J. Dawes: Funding Sources for Abandoned Mine Reclamation & Heritage Projects Panel	
5:00—5:30	Free Time-Networking	
5:30—6:30	Buffet Dinner @ Pasquerilla Performing Arts Center	
6:30—	CMH Videos (Heritage Hall) & RockBand2 Competition (Terrace Rm)	

Tuesday -- Synopses

<p>8:45 — 9:30</p>	<p>Bob Bastian, State Representative (Retired) for Bedford and Somerset Counties</p>
<p>9:30 — 10:15</p>	<p>Economic Impact of AMD Cleanup in the Greater Johnstown Area Michael Quinn, Facilitator for the Conemaugh Valley Conservancy</p> <hr/> <p>Land & Mapping Services Jeffrey Gilmore, Land & Mapping Services</p> <p>Land & Mapping Services was formed to provide its clientele with "State of the Art Professional Photogrammetric Mapping and Surveying Services". Firm wide our staff is well experienced in all phases of digital photogrammetry and it's associated Surveying services. The current experience level of our senior employees averages over twenty years and encompasses projects located throughout the world. Included are five (5) Registered Professional Land Surveyor covering eleven (11) states of practice. Seven (7) Certified GPS Technicians, three (3) Certified Divers and one Certified Photogrammetrist. Taking into account a strong commitment by management and staff to utilize only the latest technologies in hardware and software Land & Mapping Services is proud to attest that it is truly "Committed to Excellence".</p>
<p>10:45 —</p>	<p>Limestone Upflow Pond Optimization Neil Wolfe, Hedin Environmental</p> <p>The use of limestone in the passive treatment of acid mine drainage contaminated with elevated concentrations of aluminum (Al) is considered problematic because of the tendency of limestone aggregate to be fouled by solids. This project evaluated the effectiveness of an automated flushing system to maintain reactivity and permeability of limestone beds exposed to high concentrations of Al. This presentation will discuss the findings of the project and the results of the operation of an experimental limestone based treatment system with automated flushing capability.</p>
<p>11:30</p>	<p>Taylor Colliery Historic Brownfields Redevelopment Greg Firely, Malcolm Pirnie, Inc.</p> <p>In 2003 with seed funding from the Alliance Sanitary Landfill an effort was underway to reclaim the Taylor Colliery. The Taylor Planning Commission coordinated studies to fully realize the potential reuse of this land. This seed funding allowed for the application of US EPA Brownfield Assessment Grant funds, by Malcolm Pirnie on behalf of Taylor Borough, with the assistance of Kaufman Engineering. This successful grant application was awarded \$350,000 which funded the complete assessment of this land, with the team of Malcolm Pirnie, handling the environmental assessment, and Kaufman Engineering, handling the mining issues.</p>

Tuesday July 14, 2009



Tuesday -- Synopses

Tuesday July 14, 2009

11:30

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12:15

Technical Assistance Grants (TAG) Panel

Amy Wolfe, Trout Unlimited; Eric Robertson, PACD; Ryan Koch, Pocono Northeast RC&D; and Mark Killar, Western PA Conservancy

Come and here what type of technical assistance is currently available to your community group from three of PA's most respected Coordinators working on AMD remediation efforts across PA. Does your group need an AMD Monitoring plan? Engineering assistance? Biological monitoring? How about a rapid characterization of AMD? Conceptual Design of AMD Treatment Systems? Construction Oversight? Project Analysis and Prioritization? Legal Assistance? Education?

The Rossiter Strike Injunction of 1927

Jim Dougherty, PhD, Indiana University of Pennsylvania

On April 1, 1927, 200,000 bituminous coal miners nationwide struck to protest wage reductions. In November, strikers in Rossiter were prohibited from assembling, marching, and hymn singing by a sweeping injunction issued by Indiana County Judge Jonathan Langham. The injunction and mine-workers' conditions drew national interest and a U.S. Senate inquiry that included Senator Robert Wagner, key architect of the 1935 National Labor Relations Act.

Coal Ash as a Beneficial Use: Not all ashes are created equal

Keith Brady, PA DEP Bureau of Resource Management

New regulations on the beneficial use of fly-ash and their on abandoned mine land reclamation projects will be discussed Differences between the different types of ash and sources of coal ash will be differentiated.

1:30

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2:15

OSM/VISTA Initiative: Anthracite Heritage Alliance (AHA) Case Study

Dale Freudenberger, Delaware and Lehigh National Heritage Corridor

Several OSM/VISTA Community Watershed Development Coordinators from across Northeastern PA will be presenting back to back on their collective experiences thus far during their National Community Service time with community groups and other Northern Appalachian Coal Country partners working to preserve the Anthracite Region's cultural heritage, provide environmental education and outreach opportunities to underserved school districts, assist community groups with AMD remediation efforts and water quality monitoring, and coordinating community action projects.

The Geothermal Project at Wesley AME Church, Pittsburgh

Darwin Burtner and Rev. Calvin Cash

This is the first geothermal water driven project in the country which uses mine water from an abandoned mine dating back to the early 1800s. This presentation will discuss the heating and cooling capacity and the associated savings of the project. This reuse project allows the Herron Avenue Corridor Coalition to create a greening opportunity by taking an environmental detriment and creating beneficial use while reducing their carbon footprint and saving on their utility bills.

2:15

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3:00

OSM/VISTA Initiative: Crooked Creek Case Study

Adam Cotchen, OSM/VISTA Indiana County

Several OSM/VISTA Community Watershed Development Coordinators from the AHA will be building on an earlier presentation on their collective experiences thus far during their National Community Service time with community groups and other PA Coal Country partners working to preserve the Commonwealth's cultural coal heritage, provide environmental education and outreach opportunities to underserved school districts, assist community groups with AMD remediation efforts and water quality monitoring, and coordinating community action projects.

Tuesday -- Synopses

<p>3:30 — 4:15</p>	<p>AMD Water Quality Improvement Easement Bill Reichert, Schuylkill Headwaters Association This tool could be used to provide incentive to landowners to grant access to their properties for all types of environmental restorative activities. The idea would be to pay a small amount to landowners for easements such that they allow AMD treatment facilities to be built on their property. This tool would address a main issue constraining the construction of AMD treatment cells, the difficulty in easily obtaining landowner permission. The easements could also be used for many other environmental restoration activities.</p>
<p>4:15 — 5:00</p>	<p>Lime Doser Consulting Don Stamm, Lime Doser Consulting, LLC. In late March, the first automatic tipping bucket-type Lime Dosers were installed in Pennsylvania within the Dents Run Watershed in Benezette Township, Elk County. The design of the system was first developed in Sweden to combat acid precipitation. The “Swedish Tipping Buckets” operate by using the water power and require no electric or other external power supply. Within only a few days of operation, the Dents Run showed a significant increase in alkalinity at its mouth for the first time in over 75 years.</p>
<p>4:15 — 5:00</p>	<p>Funding Sources for Abandoned Mine Reclamation Panel Dave Hamilton, Office of Surface Mining; Richard Burkert, Johnstown Area Heritage Association; & John Dawes, Foundation for PA Watersheds Want to know where funding is available for abandoned mine reclamation and heritage projects? Talk to these guys who have many years of experience and management in seeking and providing funding.!</p>

Tuesday July 14, 2009



Mayfly Awards to be Presented at Tuesday Evening Dinner

Wednesday -- Schedule

Wednesday July 15, 2009

7:00—8:30	Registration 7:00—8:00 & Breakfast	
8:30—8:45	W e l c o m e !	
8:45—9:30	Opening Speaker: Gary Haluska—Seldom Seen Mine Tour	
Track	Abandoned Mine Reclamation	Coal Mining Heritage
9:30—10:15	U. Kaktins: Geothermal Energy: Using Abandoned Mine Drainage as a Source	G. Bloss: Revealing Stories Along the Susquehanna
10:15—10:45	Break (beverages)	
10:45—11:30	S. Busler: Datashed	E. Ricketts: Coal, Catholicism and the Ku Klux Klan
11:30—12:15	E. Cavazza, P. Milavec: Implementation Guidelines for the AMD Set-Aside Program in PA	I. Marcus: The Contested Terrain of Americanism
12:15—1:30	Lunch	
Track	Abandoned Mine Reclamation	Coal Mining Heritage
1:30—2:15	T. Vernon: How the Brownfields Program Relates to Abandoned Mine Lands	M. Lavine & T. Clark: The History of Paint Creek Watershed
2:15—3:00	J. Dietz: AIS: Retrofitting of Aeration Equipment	S. Johansson: Johnstown Area Heritage Association
3:00—3:30	Break (food)	
3:30—4:15	C. Denholm, D. Buehring: Manganese Oxide Recovery	
4:15—5:00	R. Marmo, J. Boschma: Obstacles to Micro Hydro on Mine Drainage	
5:00—5:30	Free Time-Networking	
5:30—8:00	Mixer @ JAHA	

Wednesday -- Synopses

<p>8:45 — 9:30</p>	<p>Seldom Seen Mine Tour Gary Haluska, State Representative for Cambria County</p>
<p>9:30 — 10:15</p>	<p>Geothermal Energy: Using Abandoned Mine Drainage as a Source Uldis Kaktins, Greater Johnstown Watershed Association The Greater Johnstown Watershed Association and CME Engineering conducted a study of the Inclined Plane discharge on the Stonycreek River and the Mine 72 mine pool from Oct. 2006 to Mar. 2008. The presentation will discuss the findings of the research including pool elevations, water temperatures, water chemistry, and discharge measurements. Water from the mine pool could be used for low-cost geothermal energy, with energy revenues offsetting the cost of treating the discharge water.</p>
<p>10:15</p>	<p>Revealing Stories along the Susquehanna Gary Bloss, Susquehanna Greenway Partnership The Susquehanna River corridor is an American treasure reflecting the unique places and people that comprise the Pennsylvania heartland. The Greenway celebrates the Susquehanna River as a place of timeless value, shared memories and experiences – a place to use and enjoy and to treasure always. The Partnership recently completed an interpretive master plan for the Susquehanna Greenway and a symposium that focused on revealing new opportunities to identify and develop heritage, recreation and cultural assets along Pennsylvania’s longest river. This presentation will highlight some of the opportunities that can be realized by working in partnership with organizations throughout the corridor who share the vision.</p>
<p>10:45 — 11:30</p>	<p>Datashed Shawn Busler, Stream Restoration, Inc. Datashed is a user-friendly, interactive, GIS enabled online database developed to assist organizations in the operation and maintenance of passive treatment systems. To date, 35 of the approximately 280 passive treatment systems have water quality data loaded within Datashed. This data can be viewed and downloaded from the web by anyone in several different formats. Come and learn how to open a free account and you too can upload data!</p>
	<p>Coal, Catholicism and the Ku Klux Klan Elizabeth Ricketts, Indiana University of Pennsylvania</p>

Wednesday July 15, 2009

Wednesday
Evening Mixer
Venue:
JABA Heritage
Discovery
Center



The Heritage Discovery Center is a five-story, well-marked brick building that's easily seen from Broad Street. Photo: R.A. Maurer.

Wednesday -- Synopses

Wednesday July 15, 2009

11:30
—
12:15

Implementation Guidelines for the AMD Set-Aside Program in PA
Eric Cavazza & Pam Milavec, PA DEP Bureau of Abandoned Mine Reclamation

The 2006 reauthorization of Title IV of the Surface Mining Control and Reclamation Act (SMCRA) includes substantial increases in AML funding to PA and also includes the provision to set aside up to 30% for AMD projects. Several meetings and forums for public input were held by the PA-DEP in 2007 & 2008. Coupled with a review of data for existing treatment systems and staff experience with watershed restoration, preliminary guidelines were developed and released for public comment in June 2008, and draft final guidelines were developed for release to the public in June 2009. Once finalized, the AMD Set Aside Program Implementation Guidelines will serve as the primary method for evaluating all newly proposed watershed restoration plans, the projects identified within these hydrologic units, and for evaluating expenditures for operation and maintenance of existing systems. Included in the guidelines are a preliminary benefit/cost analysis and scoring of proposed watersheds based on the quality of the restoration plans, the costs associated with restoration, and the benefits to be derived from restoration. The scoring will result in a determination of project worth for use in prioritizing watershed restoration efforts.

The Contested Terrain of Americanism
Irwin Marcus, Professor Emeritus, Indiana University of Pennsylvania

1:30
—
2:15

How the Brownfields Program relates to Abandoned Mine Lands
Tracy Vernon, DEP Brownfields; and Kristeen Gaffney, EPA Brownfields

Sitting renewable energy projects on contaminated lands including formerly mined lands is a priority of US EPA and the US Department of Energy. Find out about the tools and resources that EPA's Brownfields program has developed to promote deployment of renewable energy projects on mined scarred lands and learn how EPA's brownfields grants can be used for revitalizing mine land. In addition learn how PADEP is focused on identifying renewable energy projects on contaminated sites throughout Pennsylvania and potential funding sources for mined scarred lands.

The History of Paint Creek Watershed
Dr. Mary Lavine, University of Pittsburgh at Johnstown; and Tom Clark, former consultant for the Paint Creek Regional Watershed Association

This presentation looks at how the Paint Creek Watershed changed during the nineteenth century from agricultural and picturesque to coal dominated, when the Berwing-White Coal Mining Company opened the first of thirteen local mines. While coal is no longer an important player in the Paint Creek valley's economy, its substantial environmental legacy includes acid mine drainage, visual blight, and abandoned mine lands.

2:15
—
3:00

AIS & Retrofitting of Aeration Equipment
John Dietz, Iron Oxide Technologies, LLC.

Two approaches will be discussed to more effectively treat the high flow discharges including: 1) Activated Iron Solids (AIS) treatment; and 2) mechanical aeration approaches. AIS treatment is a new innovative treatment method to treat iron-laden AMD and involves a self-perpetuating and catalytic surface chemistry sorption/oxidation process in an engineered treatment system.

Johnstown Area Heritage Association
Shelley Johansson, Johnstown Area Heritage Association

The stories of Johnstown -- the 1889 flood, turn-of-the-century immigration, the steel and coal industry, and the way of life in industrial communities -- are nationally significant. The Johnstown Area Heritage Association is working to preserve and present those stories through the Johnstown Discovery Network. Through the Johnstown Discovery Network, JAHA aims to help revitalize the local economy by bringing more visitors here, while also improving our quality of life, so that Johnstown is a more attractive place to settle or start a business.

Wednesday -- Synopses

<p>3:00 — 4:15</p>	<p>Manganese Oxide Recovery Cliff Denholm and Doug Buehring, Stream Restoration, Inc. Stream Restoration Incorporated and BioMost, Inc. have been actively pursuing the recovery and use of manganese oxides from passive treatment systems to generate funds to assist watershed groups with operation & maintenance needs. The patent-pending process that is used not only recovers the manganese oxide material, but also simultaneously results in the rehabilitation of limestone aggregate-filled beds/ponds. The presentation will discuss the process as well as current and future marketing efforts for the recovered material.</p>
<p>4:15 — 5:00</p>	<p>Obstacles to Micro Hydro on Mine Drainage Robert Marmo, Marmo and Associates; James Boschma, Boschma Research; and Drew Banas, Loyalhanna Creek Watershed Association This presentation, Executive Director of the Loyalhanna Watershed Association, provides a candid look at the many obstacles, setbacks and surprises encountered during the Saxman Run Mine Drainage Treatment and Hydroelectric Project initiated by the Association in 2004. Details on the project, to be completed this fall, will be explained along with advice on pursuing future similar projects.</p>

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 Clarksburg, W.Va 26302

Wednesday July 15, 2009

Thursday -- Schedule

7:00–8:30	Registration & Breakfast
8:30–8:45	W e l c o m e !
8:45–9:30	L. Lichvar: Future AMD Restoration Costs & Economic Benefits in the Stonycreek River Watershed
Track	Abandoned Mine Reclamation
9:30–10:15	R. Stehouwer and S. Van de Mark: Manure and Minelands
10:15–10:45	Break (beverages)
10:45–11:30	J. McNelly: Co-generation Power Plants
11:30–	End of Conference Lunch (on your own)

Thursday -- Optional Trout Unlimited Tour

West Branch of the Susquehanna River AMD Education Tour

Trout Unlimited, the Clearfield County Conservation District, the West Branch Susquehanna Restoration Coalition, and Cambria County Conservation & Recreation Authority are hosting an optional tour to several sites in the West Branch of the Susquehanna (Cambria County).

The tour starts at 9:00AM sharp on Thursday and will leave from the front of the Living and Learning Center. Lunch will be provided on the bus and will return at 5:00 PM.

If you would like to attend please contact the Trout Unlimited Office (570) 748-4901, talk with TU Staff at the Conference or e-mail info@wbsrc.org.



Thursday -- Synopses

<p>8:45 — 9:30</p>	<p>Future AMD Restoration Costs and Economic Benefits in the Stonycreek River Watershed Len Lichvar, Somerset Conservation District Outlines the estimated additional AMD abatement projects and total costs that would be required for the full restoration of the Stonycreek River Watershed in Somerset and Cambria Counties. It also estimates the economic value, impact and return that would be generated by the restored water quality that would be created by that project implementation and investment.</p>
<p>9:30 — 10:15</p>	<p>Manure and Minelands Dr. Richard Stehouwer, PSU Department of Crop and Soil Sciences; and Scott Van de Mark, Pennsylvania Environmental Council Reclamation methodology and economics of abandoned and operating mine lands using excess poultry manures and carbonaceous soil amendments for the production of switch grass and warm season grass mixes for renewable biofuel production.</p>
<p>10:45 — 11:30</p>	<p>Co-generation Power Plants Jeff McNelly, ARIPPA ARIPPA alternative energy plants have reclaimed over 4500 acres of abandoned mine lands and many miles of streams in 2008, alone. This industry has had successful efforts without the use of tax dollars together with the PA tax-payer supported efforts. It adds up to a dedicated and concentrated effort to rid PA's landscape of significant environmental hazards that endanger the public and limit economic development and recreational opportunities. Reclamation efforts by the ARIPPA plants are valued at approximately \$90 million.</p>

Speaker Biographies

Gary Bloss has over 30 years experience in the field of community planning and landscape architecture. In September of 2006 he was appointed as the first Executive Director for the Susquehanna Greenway Partnership. Prior to this position Gary ran his own consulting firm, specializing in community planning, watershed conservation, greenways, open space, and trails. Gary has a Masters Degree in Landscape Architecture from Harvard University, and a BS Degree in Landscape Architecture from Penn State University including foreign study at the University of Lisbon, Portugal. He is a licensed Landscape Architect and Professional Planner.

Doug Buehring is seeking an Environmental Systems Engineering degree at Penn State University and is currently interning at BioMost, Inc. through a Green Building Alliance internship where he is working to develop a market for metals recovered from passive treatment systems.

Darwin Burtner is the owner of Western Pennsylvania Geothermal and has designed and built residential geothermal since 1996 and designed and installed commercial geothermal loop fields since 2003. Thermal conductivity testing is also part of the design assists process.

Shaun Busler is a certified GIS Professional (GISP) and biologist with Stream Restoration Incorporated and BioMost, Inc. He is involved in the restoration of watersheds affected by abandoned mine drainage and the permitting and mitigation of wetlands. He is an active participant in the Slippery Rock Watershed Coalition and Aultman Watershed Association for Restoring the Environment (A.W.A.R.E.). Shaun graduated from Grove City College with a B.S. in Biology.

Cliff Denholm is an Environmental Scientist with Stream Restoration Incorporated and BioMost, Inc. as well as an active participant with the Slippery Rock Watershed Coalition. Cliff is involved in the conceptual design, monitoring, evaluation, and operation & maintenance of passive systems and continues to be involved in various education/outreach activities.

Speaker Biographies (continued)

Darwin Burtner is the owner of Western Pennsylvania Geothermal & has designed & built residential geothermal since 1996 and designed and installed commercial geothermal loop fields since 2003. Thermal conductivity testing is also part of the design assists process.

Rev. Calvin Cash has served as the Pastor of John Wesley A.M.E. Zion Church in the historic Hill District since 1996. Cash was ordained Deacon in 1986 & an Elder in 1987. Pastor is a founding member of Clergy & Churches United, the Executive Director of John Wesley Charities and the Herron Avenue Corridor Coalition.

Eric Cavazza is the acting Division Chief of the Pennsylvania Department of Environmental Protection, Bureau of Abandoned Mine Reclamation's Division of Acid Mine Drainage Abatement. He manages the design of projects to eliminate health & safety or remediate environmental problems associated with abandoned mining operations throughout the Commonwealth. Eric is a registered professional Engineer and has a B.S. in Mining Engineering & a M.S. in Environmental Engineering both from Pennsylvania State University.

Tom Clark obtained a B. S. in Biology (Terrestrial Ecology emphasis) from the University of Pittsburgh at Johnstown in 1998 & an M. S. in Biology (Aquatic Ecology and Water Pollution Control emphasis) from the California University of Pennsylvania in 2003. Mr. Clark was a contracted watershed consultant from 2000 to 2007 with his two major clients being the Indiana County Conservation District, where he served as their Watershed Specialist, & the Paint Creek Regional Watershed Association. Mr. Clark accepted the Abandoned Mine Drainage Project Coordinator Position at the Susquehanna River Basin Commission in 2007 & remains in that position today.

Jim Dougherty is an Assistant Professor of Sociology at Indiana University of Pennsylvania (IUP) & the director of IUP's Center for Northern Appalachian Studies. He holds a PhD in American Studies from the University of Buffalo. Professor Dougherty is the co-editor of *The Global Economy: Divergent Perspectives on Economic Change* and producer/writer of the documentary *The Struggle for an American Way of Life: Bituminous Coal Operators and Miners in Central Pennsylvania, 1919-1933*.

Kristeen Gaffney has worked in EPA's brownfields program since 2001 and currently oversees assessment & cleanup grants in EPA's Region III office in Philadelphia. The Region III office serves the states of Pennsylvania, Delaware, Maryland, Virginia, West Virginia and the District of Columbia. She has her undergrad degree in environmental science & masters degree in environmental policy from the New Jersey Institute of Technology.

David Hamilton graduated from West Virginia University in 1973 with a Bachelor of Science Degree in Forestry. He spent the first few years of his career in the US Department of the Interior's Bureau of Outdoor Recreation. He has 30 plus years experience with OSM and has been working in the Harrisburg Office since 1982. David has worked in abandoned mine lands, regulatory and grants programs in OSM In recent years, David has served as OSM's PA representative for the Watershed Cooperative Agreement Program (WCAP), and the Appalachian Regional Reforestation Initiative.

Shelley Johansson is Director of Marketing & Communications for the Johnstown Area Heritage Association (JAHA). A native of Nashville, she moved here with her husband Ola, who is a professor of geography at Pitt-Johnstown, & began working for JAHA in 2004.

Uldis Kaktins presently serves on the executive board of the Greater Johnstown Watershed Association. In 1975, he joined the Geology Department faculty at the University of Pittsburgh at Johnstown where he was Department Chair from 1990-2005, and retired in 2008 with emeritus status. Holds a B.A. & Ph.D. in Geology from Boston University and a M.S. in Geology from Syracuse University.

Mark Killar serves as Watershed Manager for the Western Pennsylvania Conservancy's Watershed Conservation Program. He works closely with grassroots organizations throughout Western Pennsylvania by providing technical assistance on watershed assessments, restoration and protection projects. Mark is a graduate of California University of Pennsylvania and holds a B.S. degree in Education and a Master degree in Geography and Regional Planning.

Mary P. Lavine, PhD. Dr. Lavine is an Associate Professor in Geography and Director of the Environmental Studies Program at the University of Pittsburgh at Johnstown. Dr. Lavine's research interests include environmental hazards, environmental history and applied GIS. She is currently working on a multi-year project to map the geography and sociology of the 1889 Johnstown Flood, in partnership with the Johnstown Area Heritage Association.

Dorian Roffe-Hammond, Anthracite Region OSM-VISTA Coordinator. Area of study is in trans-boundary water policy an is interested in non-profit involvement in global water policy to supply clean drinking water to all. Holds a BA in Geography with a focus on Environmental Hydrology from Georgia State University.

Speaker Biographies (continued)

Len Lichvar is the District Manager of the Somerset Conservation District and a freelance outdoor writer. He is also the Chairman of the Stonycreek-Conemaugh River Improvement Project, District 4 Commissioner on the Pennsylvania Fish and Boat Commission's Board of Commissioners, Stream Improvement Chairman and Board member of the Mountain Laurel Chapter of Trout Unlimited, Board Member of the Somerset County Conservancy and a member of a variety of local, state and national sporting and conservation organizations.

Irwin M. Marcus, Professor Emeritus, Department of History, IUP. Dr. Marcus created the first courses in U.S. labor history, African-American history, and the history of protest movements to the IUP curriculum. His research and publications focus on the history of Pennsylvania coal miners and steel workers, deindustrialization, and globalization.

Pam Milavec is employed by the PA Department of Environmental Protection, Bureau of Abandoned Mine Reclamation. She works in the Cambria District Office, where she is chief of the Environmental Services Section. This Section is responsible for watershed planning and project development of AMD treatment and abatement projects in the bituminous portion of the state. The Section also provides biological, hydrogeologic and environmental services to the Bureau. Pam has been with DEP for 25 years, working also as a water pollution biologist and water quality specialist. She has a B.S. in Biology from the University of Pittsburgh at Johnstown and graduate credits in stream ecology from Indiana University of Pennsylvania.

Elizabeth A. Ricketts received her PhD from Emory University. An assistant professor of history at IUP, she teaches courses in labor, African-American, and women's history. Her research and publications focus on the social, labor, and political history of coal miners in western Pennsylvania. She is currently engaged in co-authoring a book on 19th century work in America.

Eric Robertson is a Conservation Engineer working for the Pennsylvania Association of Conservation Districts' Engineering Technical Assistance Program. Eric has been working with PACD since 2001 out of the USDA NRCS southwest region technical center in Somerset. Over the past eight years, Eric has worked on numerous projects mainly dealing with water quality issues relating to abandoned mine drainage, stream corridor restoration, and agricultural best management practices.

Richard Stehouwer has been on the Crop and Soil Sciences faculty at Penn State University since 1997, and is the state extension specialist in environmental soil science. His extension program covers soil based recycling of by-product materials, compost production and utilization, recycling of urban/suburban organic materials back to agricultural soils, manufactured topsoils, mine reclamation, and remediation of contaminated soils and brownfields. Dr. Stehouwer maintains an active research program to support his extension efforts.

Scott Van de Mark is the Director of Special Projects with the Western Pennsylvania office of the Pennsylvania Environmental Council (PEC). Van de Mark is a project manager for environmental quality trading and energy and climate projects with PEC. He has a B.A. from the University of Vermont in Economics and Environmental Studies and a M.E.S. from the Yale School of Forestry and Environmental Studies.

Tracey Vernon is Director of Pennsylvania's Brownfield Action Team within the Pennsylvania Department of Environmental Protection. Prior to her position at PADEP, Tracey managed a variety of community and economic planning and real estate development projects at Delta Development Group, Inc., a Pennsylvania based economic and real estate development firm. Tracey is a member of the American Institute of Certified Planners (AICP), a licensed professional planner in the State of New Jersey, and a certified economic development finance professional from the National Development Council. She holds a masters degree in City and Regional Planning from Rutgers University and an undergraduate degree in Environmental Science from Thiel College in Greenville, Pennsylvania.

Amy Wolfe is the Director of Abandoned Mine Programs for Trout Unlimited. Amy has been with Trout Unlimited since 1999 when she began working in the Kettle Creek watershed, TU's flagship Home Rivers Initiative program. Over the past ten years, Amy has worked on numerous assessments, restoration plans, fish habitat improvement projects, abandoned mine drainage (AMD) remediation projects, and landowner stewardship trainings -- all amounting to over \$5 million dollars she secured through state, federal, and foundation grants.

Neil Wolfe is a geoscientist with Hedin Environmental, where he has worked since 2006. Neil has been working on mine drainage remediation as a volunteer since 1999 and as a professional consultant since 2003. He enjoys long walks on spoil piles at sunset and watching limestone dissolve. His turn-ons are alkalinity and robust aquatic ecosystems. His turnoffs include pyrite and acceptance of the status quo. Neil resides in the Lock Haven area with his wife and two daughters.



Tuesday after
dinner in the
Terrace Room

*Special Prizes for
the Top 3 Bands*

Many bands will
compete, but only
ONE
will **ROCK!!**

Coal Mining Heritage Videos

A screening of "Hard Coal: Last of the Bootleg Miners"
and Centralia "The Town
that Was" will be shown
as an optional evening
activity after dinner
Tuesday.

Shown in Heritage Hall!



*Save the Date for the 2010 Conference in Pittsburgh, PA
"Bridging Reclamation, Science and the Community"*