

ROUND THE BEND

"BRIDGING THE GAP BETWEEN ENGINEERING AND ECOLOGY"

WPI's Project Spotlight Raredon Run Stream Restoration

Following Hurricane Ivan in 2004, Independence Township, Beaver County, sought Independence Conservancy's help for flood-ravaged Raredon Run. Previous efforts by other groups had not succeeded in stabilizing the bed and banks of this tributary to Raccoon Creek, whose headwaters in Allegheny County have seen major commercial development over the past several years. During storms, increased runoff undercuts and spills over onto state and local roads, erodes farmland and residential property, and threatens homes and businesses.

Independence Conservancy sought the expertise of Wallace & Pancher, Inc. to propose a design-build project to PA DEP's Growing Greener Grants Program. Funded in 2008 and permitted in 2010, construction of the Raredon Run Stream Restoration Project will begin in the summer of 2011. Wallace & Pancher Construction Inc. will build about 1,600 linear feet of new stream channel by relocating the creek from its severely stressed current alignment into a new, multi-staged channel which will accommodate a range of streamflow conditions, allowing Raredon Run to dissipate flow energy and limit degradation. WPI's design applies newly developed structures and principles of Natural Channel Design.

Vicky Michaels, Executive Director of Independence Conservancy, praised John Burglund, Josh Noble and the WPI staff for their patience, ingenuity, and willingness to stick with the Raredon Run project over years of vanishing state funding and regulatory agency transitions. "Seven years after we were first asked to help the folks along Raredon Run, we're finally approaching construction.

Other groups' attempts to tame this tiger haven't held up very well, so the pressure is really on Wallace & Pancher, and Independence Conservancy, to get it right and give these people some peace of mind."



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Becky Christie
Malorie Sagulla
Mike Heit

**For general company
information, contact one of our
offices:**

Hermitage, PA: Kim Nanosky
(724) 981.0155
knanosky@wallacepancher.com

Canonsburg, PA: John Burglund
(724) 551.1240
jburglund@wallacepancher.com

Waynesburg, PA: Adam Greathouse
(724) 981.0155 x. 157
agreathouse@wallacepancher.com

**To receive this newsletter
electronically, please email:**
marketing@wallacepancher.com



A NOTE FROM THE OWNERS

Energy Impact in PA is Growing Rapidly

Well, spring has finally sprung and it's nice to be finally coming out of what seems to be one of the longest winters in the history of the state. Spring brings renewed energies to WPI and also a new construction season. As our company continues to grow it is becoming more and more evident that the energy industry as a whole (coal, natural gas, pipelines, etc.) is becoming a dominant force within our company. Pennsylvania is a key location for what may be the biggest economic boom to happen in our lifetime with the discovery of trillions of cubic feet of natural gas below our feet. Marcellus Shale drilling is still in its infancy, but the industry is already contributing billions of dollars to the state's economy. Even with the tough economy last year, we had an increase in sales, and a lot of that is due to the business generated by the energy sector. Natural gas exploration companies rely on other businesses to help them grow and thrive. This creates a trickle-down effect that benefits some obvious players – environmental and engineering firms, construction companies and equipment manufacturers – but also extends to restaurants, dry cleaners, childcare providers, and a host of other local businesses.

The increased demand for engineering, environmental, and surveying services in connection with energy exploration in the region,

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WPC Highlights

New Services Expands WPC's Scope

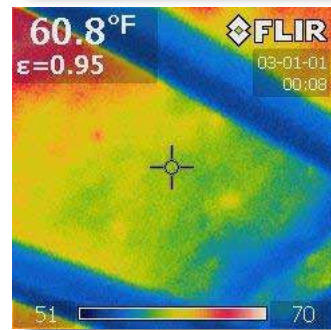
Infrared is a multi-purpose building management tool

It's estimated that up to 40 percent of all commercial roofs will develop leaks within the first year of service. The average life span of these roofs is seven to ten years, but they can last twenty-plus years if they are correctly installed and property maintained. Commercial roof maintenance is a vital part of keeping your property investment performing.

More and more building owners and facilities managers realize that professional nondestructive testing can significantly reduce building management costs. Infrared inspection, one component of a roof maintenance program, has proven especially valuable because it can reveal hidden moisture within a critical and very expensive building component. Properly applied, this cutting-edge technology offers invaluable information to those making expensive building management decisions.

To better serve our client's needs, Wallace & Pancher Construction, Inc. is proud to announce the addition of Infrared Thermal Imaging for Roof Diagnostics to our list of roof services. Performed by our skilled technicians and state-of-the-art equipment, our roof scan will precisely identify the location and extent of any moisture in the roof. Leaks can be located, confirmed and repaired, improving energy efficiency with minimal disruption before they become a

significant problem. If moisture is visible on the ceilings or walls, it's too late. Being proactive by implementing a good maintenance program and identifying any problems while they are small can save thousands of dollars over the life of a roof by extending the roof's life and through energy savings.



Geographic Information Systems Highlights

GIS Department...Growing Fast

The GIS Department is growing fast as client needs continue to increase. WPI recently hired a new GIS Technician (working in our Waynesburg field office) to meet the demands of our coal clients in conducting environmental analysis and producing the necessary maps that accurately reflect current stream conditions observed in the field. In addition, a new full time GIS Programmer has been added to our staff in the Hermitage office to oversee database maintenance, custom applications, and web site development.

For a recently awarded contract, the GIS Department developed an innovative approach for collecting, calculating and storing Green House Gas emissions data that is now being required under EPA's Greenhouse Gas Reporting Program (40 CFR part 98, subpart FF). Field collected data is entered into custom forms developed in ArcPad and deployed on a Panasonic Toughbook equipped with internal GPS. The GPS and ArcPad allow the

sampler to track their location and find the sites that they need to sample each week. The custom forms in ArcPad have been programmed to calculate gas flow rates after the field sampling parameter data is entered, thereby eliminating additional calculations/time that would have been needed in the past. The data is then extracted using the ArcPad check in process which allows the field sampled data and calculations to be merged into a database residing on our servers. The client, using a replicate database, then synchronizes the two databases through an ArcServer connection on a weekly basis to retrieve the newly entered data.

The GIS Department is actively marketing new services to a range of clients (and potential clients) including those in Energy, Environmental Management, Real Estate, Business and Government and expects to have a newly updated and redesigned GIS website up and running in the coming months.

Wetland Mitigation Construction Project Highlights



Project: **Warren City Schools**

Location: **Warren, OH**

Wetland Mitigation/Construction

WPI designed 1.5 acres of wetland mitigation on site.

WPC constructed 1.5 acres of urban wetland adjacent to the new school building.



Employee Spotlight: Experienced Executive Brings a Wealth of Operational Knowledge to New Role



Wallace & Pancher Construction, Inc. (WPC), announces the addition of Frank Rudge as Vice President of Construction for the Hermitage-based company.

In his position, Mr. Rudge will be responsible for company strategic planning, budgeting, and day to day operations.

Mr. Rudge is a graduate of Westminster College and has earned an Executive MBA from the University of Pittsburgh. His work experience includes strategic business development, acquisitions, operations, and management for large U.S. based corporations and has worked extensively throughout Europe and Canada.

"Bringing Frank on board is a game changer for our company. He's a skilled executive with

lots of experience and great instincts and will be instrumental in taking our company to new levels," said company Principal, Daniel Wallace. "We are confident that Frank will provide the means to strategically build upon our existing business program and provide the leadership needed to shape new business opportunities".

Daniel Wallace, P.E. and Brian Pancher began Wallace & Pancher, Inc. (WPI) in 2001 and Wallace & Pancher Construction, Inc. (WPC) in 2010 to provide engineering and environmental consulting and construction services to developers, non-profit organizations, and government agencies. The company has rapidly grown and diversified into many different areas of business, including Geographic Information Systems (GIS), energy resource management, and construction. □

fresh faces



Becky Christie, GIS Technician
M.S. Sustainable Systems,
B.S. Environmental
Geoscience
Slippery Rock University



Malorie Sagulla
Accounts Payable/Receivables
Accounting
Ohio State University
(Go Bucks!)



Mike Hiet
GIS Programmer
BSAS Computer Information
Systems
Youngstown State University

Laboratory Highlights

Sean McKnight selected for the J.A.W.S. Project

After an intense selection process, Sean McKnight, a junior at Hickory High School in Hermitage, has been chosen as one of 30 students from across the nation to participate in a program through the American Youth Leadership Program, specifically the **JAWS Project** – Japanese American Watershed Stewardship Project. The project is funded by the Department of State.

The program is for students interested in Japan and/or the environment and ecology. Sean is employed as a laboratory assistant in the macroinvertebrate lab at **Wallace &**

Pancher, Inc. Sean will travel to Washington, D.C. on July 15-17, 2011 for orientation and depart for Japan on July 18 returning August 11.

This year-long commitment will begin with virtual projects prior to departure, during the trip and also upon returning. After they return, the students will convey what they learned to their community.

You can read more about the project at: <http://www.aipt.org/marsh>.

WPI Teaches 1st Graders about Watersheds

Nya Aron, Laboratory Technician/Assistant Environmental Scientist and Micki Grimm, Laboratory Assistant, visited Case Avenue Elementary School in Sharon to educate the 1st grade classes of Mrs. Diane Romo and Mrs. Dee Wiesen on the topic of watersheds.

Their presentation consisted of two portions. The first part was a PowerPoint story in which the students followed "Sally the Scientist" as she studied the local watershed. The main focus was to help the students understand: *What is a watershed* (focusing on our local Shenango River Watershed); *What are the types of water pollution* (point-source and non-point-source); **What can the students do to limit their pollution impact**; and *What are the organisms that live in and around the stream?*

The second portion consisted of a hands-on activity looking at the macroinvertebrates that are found in our local streams. The students became junior scientists helping "Sally the Scientist" figure out if the local streams were healthy or not.

The Case Avenue 1st graders had the opportunity to look through water samples and sort the different groups of macroinvertebrates. They learned how to determine the health of each stream according to the insects that were found there.

Congrats to Jennifer Barborak! Jen along with her husband Rick and daughter Emma, made the front page of **Views & Voices** magazine, April issue, *Preserving a Regional Treasure: Shenango River Watchers*.

A love of the environment instilled by her grandfather and an influential speech from Robert F. Kennedy, Jr. about the Riverkeeper organization, led Jen and Rick Barborak to create Shenango River Watchers (SRW). Now ten years and 300 members later, SRW has been able to clean many areas up and down the river. SRW have netted nearly 1 million pounds of trash from their clean up days collectively.

Shenango River Watchers





1085 S, Hermitage Road
Hermitage, PA 16148



COMPANY NEWS

WPI Employees - Movin' on Up

SouthPointe Office - Cathy Tulley was recently promoted to GIS Analyst 2. She has continued to excel in developing new analysis tools and models. These new tools have streamlined many routine tasks thereby speeding up these processes and resulting in a cost saving for our clients.

Waynesburg Office - Dave Miller was promoted to GIS Tech 2 and has demonstrated his leadership by taking on new responsibilities as they arise.

SouthPointe Office - Chris Wagner was promoted to Project Manager in the Coal Division and is responsible for managing a variety of permitting, stream restoration, and

data collection projects for clients in the energy sector.

Waynesburg Office - Adam Greathouse, was promoted to Field Data Manager. Adam is responsible for our stream data collection program.

Hermitage Office - Josh Noble has been promoted to Project Manager. In his new role, Josh will be responsible for the overall direction, coordination, implementation, execution, control and completion of specific projects ensuring consistency with company strategy, commitments and goals.

Congratulations to all for a Job Well Done!

Did You Know...

These are real laws!!

In Pennsylvania:

It is contrary to Pennsylvania law to discharge a gun, cannon, revolver or other explosive weapon at a wedding.

You may not sing in the bathtub. (...seriously?)

In Ohio:

No one may be arrested on Sunday or on the Fourth of July. (...something to consider)

In Bay Village, it is illegal to walk a cow down Lake Road. (...darnn, I was ready to take Bessy for a walk)



Cassie Graham, an 11th grade student at Sharpsville Area High School, took 1st place for her science fair project and received the Director's Award for Senior High Biology.

Under the mentoring of Leslie Danos, Laboratory Technician Asst. for WPI, Cassie's project, "Mayfly Mayhem" exhibited the effects of temperature on mayfly emergence. In her project conclusion, mayflies emerge faster when subjected to

Cont'd from "A Note from the Owners"

has given us the opportunity for continued company growth. Our continued growth provides the opportunity for continued job creation, which ultimately leads to stronger communities. Coal will continue to be a very important industry to the combined energy needs of our nation and is an essential aspect to our independence from foreign oil. Along with other forms of energy, such as natural gas, it is clear that Pennsylvania is paving the way for a prosperous future in the energy industry.

We look forward to another productive year and are thankful to each person and client for their continued business. We value each one of you and look forward to a bright future with you.



increased temperatures.

Cassie will be competing in May at the state level for the Pennsylvania Junior Academy of Science Regional Science Fair at Penn State University main campus.

A big thanks goes out to Josh Kelly, Envir. Scientist. He organized a tree and identification walk at the 1st Annual Winter Fest in Buhl Park February 13th.