

Streamside

MISSION STATEMENT

“Renfrew Institute’s mission is to guide the people of the Cumberland Valley Region to become stewards of their natural and cultural worlds.”



Plus~
Recycle/Reuse
Yard Sale!
See pull-out pages inside!

Newsletter of the Renfrew Institute

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It’s Spring...Time for a Pilgrimage



We have revived an annual pilgrimage at Renfrew—the search for the ephemeral beauty, *sanguinaria canadensis*, commonly known as Bloodroot. The plant emerges in early spring along steep streambanks in one of the remote sections of Renfrew Park. By the time you read this, the plant will have vanished from the landscape.

The magic of the “find” is due in part to the nature of the plant—appearing as it does, so suddenly, with the nudge of extended daylight hours and a touch of warmth filtering through bare tree branches. The magic is also in its remote location in the park; you must venture out to gain the experience. But perhaps most magical of all, is the joy in the heart that comes with discovering this bit of evidence that the warm seasons are indeed about to unfold. You don’t want to miss such an opportunity.



Bloodroot blooms only in early spring. The plant has creamy white flowers with yellow centers, and is called Bloodroot because of the reddish sap found when the roots are cut. Photo from U.S. Fish & Wildlife Service.

Many people around here have pilgrimages.

Trout fisher folk venture to secret spots on our local streams. Gardeners find solace in at last getting hands into outside dirt, returning to beds where every cubic inch is known well. Athletes, having braved the winds and cold of winter, welcome back the gentle air that means better performance and a lighter load. Hikers seek out new trails, but return to the familiar for the memories. Travelers begin planning summer vacations, often eager to retreat to places that hold special meaning.

Our pilgrimages are important to us. They strengthen us personally, and they contribute to our cultural and natural heritage. As a parent, grandparent and educator I realize how important it is for elders to share pilgrimages with youngsters. Whatever your pilgrimages are, enjoy them this year!

Oh, and by the way, for anyone who missed the Bloodroot, there is always the Dutchman’s breeches, or the wild ginger. They are—or were—in the park last year. I’ll have to check on those too...really soon, though not too soon...or too late!

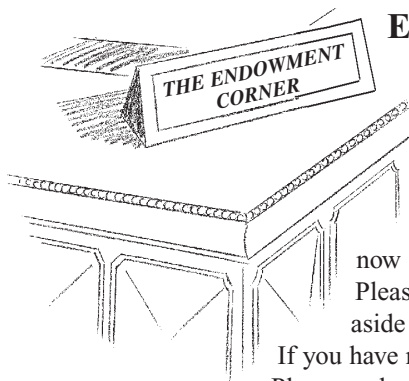
Melodie Anderson-Smith

[Ed. note: See related poem on page 16]



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Volume 21 ♦ Number 2 ♦ April 2011



Endowment Corner—Building a Foundation for the Future!

with George P. Buckey, Chair, Endowment Trustees

Our sincere *THANK YOU* to the following members and friends who made contributions to Renfrew Institute's endowment fund in response to our winter 2010–11 supplemental giving campaign. Contributions are still coming in, so additional names will appear in the next newsletter.

Donations totaling \$5,895.55 have been added to the fund this year, which now stands at \$143,753. We are very pleased that the fund value is growing again. Please keep Renfrew Institute in mind for next year and, if possible, put a few dollars aside for this fund again. You will receive the request in December 2011.

If you have not contributed for this year and wish to do so, we welcome your donation anytime. Please make your check payable to Renfrew Institute (memo "endowment") and send to:

Renfrew Institute, 1010 E. Main St., Waynesboro, PA 17268. For information about including Renfrew Institute in your estate planning, please call our office 717-762-0373 or email us at renfrewinst@innernet.net.

The following is a list of endowment donors for 2010–11 (to date):

June Anderson in memory of Harry S. Anderson	Barbara H. Gaydick	Marilyn K. McCarney
Melodie Anderson-Smith & James Smith	Steve Graham	Bev McFarland
Mike & Denise Beck	Jay & Pat Heefner	Mr. & Mrs. Edward A. Miller
Garrett Blanchet & Elena Kehoe— Gentle Laser Skin Care Center	Blaine & Mildred Holliday	Betsy Payette
Mr. & Mrs. Charles J. Blubaugh— Blubaugh's Tire & Wheel Sales	Tracy Holliday & Kevin Ledden	Debbie & Bill Pflager
Jean Brinser	David & Dawn Keller in memory of Tom MacBride	Carmen Richardson
Otis & Carol Brown	John N. & Martha Dudley Keller in memory of Harry S. Anderson	Rouzerville Lions Club
George P. & Martha B. Buckey Fund of the Franklin Co. Foundation	Barbara Kercheval	Kathleen & Darwin Seiler
Max and Nancy Creager	Jill & Will Kessler	Mary Ellen Selvaggio & Patric Schlee
Greg & Debi Duffey	Lynn Y. MacBride	Eunice Statler
First National Bank of Mercersburg	Walter E. & Karen M. Manderson	Earl O. & Karen O. Strimple
	Martz Plumbing & Heating, Inc.	Catherine M. Tryon
	LeRoy S. Maxwell, Sr.	VFW Post 695
		WACCO Properites, Inc.
		Angela Grove Weagly



Messages of Support

The following messages came from those endowment fund donors who answered a question on the back of their donor card (for the purpose of sharing with our readers):

Why do we contribute to the Endowment Fund?

"Giving our children and families the inspiring opportunity to experience the natural world is what Renfrew Institute continues to do so well! Renfrew Institute is a gift to our community. It's an absolute pleasure to contribute to such an important endeavor!"

~ Mary Ellen Selvaggio

"For the children." ~ Blaine Holliday

"The institute piques the interest of children and teaches them the lost arts of linen and butter making, gardening and environmental concerns. In doing this, hopefully, as adults these same children will help perpetuate the continued success of this great park and museum!"

~ Sincerely, Ed & Ann Miller

"This is a very worthy cause." ~ Catherine M. Tryon

"For the next generation!" ~ Steve Graham



Pumpkin Fest 2010 a Success!

After a complete wash-out in 2009, Renfrew Institute and Renfrew Museum gained excellent profits last fall during the 2010 Pumpkin Festival. After \$2,637 in expenses were covered, net proceeds were \$4,536—that's \$2,268 for each organization!

Underwriting support from M&T Bank and sponsorship of 4,500 advertising placemats by Linda Barkdoll/Ronnie Martin Realty helped greatly with the bottom line. A big *thank you* to the many attendees, and to volunteers and staff who worked very hard to make the event profitable and enjoyable. In addition to the underwriters mentioned above, we thank the other businesses and organizations that helped through donations of money and in-kind support.

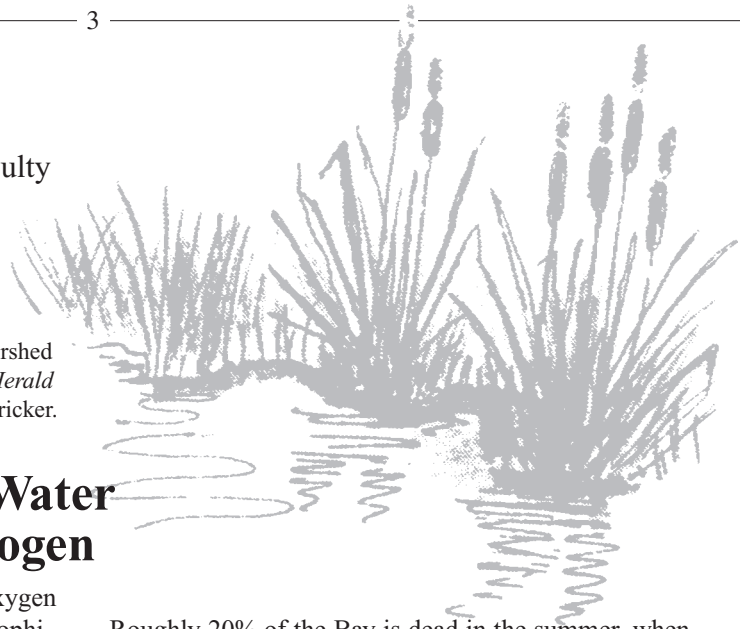
Pumpkin Fest 2011 is scheduled for SATURDAY, OCTOBER 15.

Downstream

with Doris Armstrong Goldman, R.I. Faculty

EDITOR'S NOTE: *Downstream* is a regular column in this newsletter. It features articles about environmental awareness and action that can help us be better stewards of our natural heritage.

This article appears with permission from Antietam Watershed Association. It was originally published in their *Record Herald* newspaper column, *Antietam Currents*. Edited by Judy Bricker.

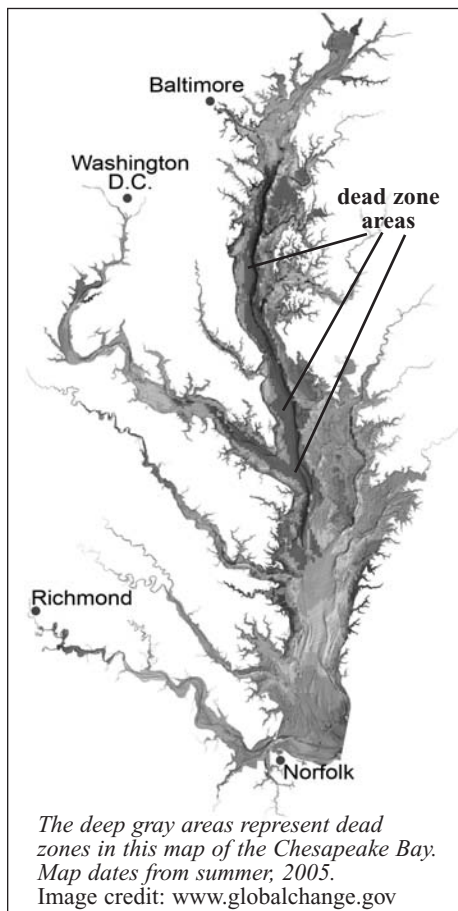


Dead Zones in Bodies of Water and Ways to Remove Nitrogen

“Dead Zones” are areas of water without enough oxygen to support life. They form by a process called “eutrophication,” when too much plant fertilizer (nitrogen, N, or phosphorus, P) gets into the water. This makes microscopic algae multiply so fast that aquatic creatures cannot possibly eat it all.

Since algae plants have short lives, within days they die. Their decay uses up the oxygen in the water, killing not only the fish and crayfish, but also the tiny waterfleas and insect larvae that normally would eat the algae.

Locally, dead zones form in the water column under green-scummed ponds and lakes. (Some have aerating fountains installed to combat this.) Dead zones also form



The deep gray areas represent dead zones in this map of the Chesapeake Bay. Map dates from summer, 2005. Image credit: www.globalchange.gov

in moving waters that are greatly over-fertilized, like the Potomac River and deeper downstream parts of the Antietam.

About 400 dead zones in the world are so massive they can be spotted from space. A million pounds of nitrogen pour into the Chesapeake Bay every day, so the Bay dead zone is third in size in the U.S. behind Lake Erie and the Gulf of Mexico.

Roughly 20% of the Bay is dead in the summer, when the surface of the water is so warm that the water mixes poorly. People boat right over this lifeless zone without knowing it.

Only 1% of the N and 3% of the P in streams leading to the bay is natural. Farm manure, plus erosion and lawn fertilizer from cities and towns, each contribute about 30% of the excess P, while waste water and farm fertilizer each cause about 20%. For N, about 30% comes from farm and lawn fertilizers and 30% from air pollution by cars, factories, farms, and power plants, while 20% each comes from manure and wastewater, including home septic fields. Any family that looks at this list can find small ways of decreasing their own impact, and it all adds up.

Removing Nitrogen From Streams

Water with too much nitrogen (N) in it is undrinkable, and since N is a plant fertilizer, it causes algae blooms and fish kills. Most excess N comes from fertilizer, eroding soil, sewage, and manure. It gets into streams through surface runoff; “interflow” just under the surface; the deeper groundwater; and the artificial drainage from storm water culverts, leaking sewers, tiled farm fields, and poorly designed septic systems. Some even comes from cars and power plants.

Most N in streams is Nitrate, easily dissolved in water. Ammonium is also common, and in smaller streams changes into Nitrite and then to nitrate. Sometimes, it instead becomes less harmful by sticking onto clay or organic particles. Some streams also hold a lot of Dissolved and Particulate Organic N.

N removal on land should be tried first. Trees planted as a “riparian buffer” along the stream will take up N, and denitrifying bacteria growing in the dead organic matter in the forest will convert nitrates into nitrogen gas, a harmless part of the atmosphere.

Storm water pipes dumping directly into streams are a big problem, but swales, green roofs, permeable pavement, and rain gardens can help, as can repairs to septic systems, leaky sewers, and older waste water treatment plants.

(continued on page 9)



The award for “Youngest Runner” in the 2010 Salamander Scramble was a tie between Kody Kelley and Vanessa Shockey—and somehow, we forgot to note Kody’s name among the award winners!

So with our apologies, we present this “trophy” to Kody, who also received a gift certificate from Olympian Sports.



Hope to see you “scrambling” in 2011, Kody!

Additional Errata

Your editor is blushing as she records more errors that were discovered from the previous issue of this newsletter—and from our Bay Supper printed program.

An apology is due to **Carl and Bonnie Monk** for the misspelling of Carl’s name in the Bay Supper review article in *Streamside*, and in the Patrons listing in the event program—not once, not twice, but THREE times this error slipped by proofreaders and this editor.

We are grateful for all of our sponsors, and regret that a *Streamside* supporter was omitted from page one in the Fall 2010 issue of *Streamside*. Our apology to **Dennis L. Koons of Raymond James Financial Services** for that inadvertent oversight.

If that wasn’t enough, we also omitted “James” in **Raymond James Financial Services** in the Conservation Society membership listing for Denny Koons and his company.

Striving for improved accuracy,

Your humble editor & administrative staff

Thanks

...to **Jim Diller** for technical assistance and shelf building in the office.
 ...to **Pat Heefner** for help in the institute office.
 ...to **Mary Ann Payne** for continuing work on the institute’s archives, *EarthSeekers* awards, star necklaces for first-grade program, *Marvin Visits Earth* and other program related tasks.
 ...to **Vicki & Randall Sprenkle** for cutting “palettes” for kindergarten program, *Wake Up Earth*.
 ...to the late **Joanne Schoonover** and friends from **Shady Grove Fabrics** for donating quilt fabric squares for kindergarten program, *Once Upon a Farm*. We are saddened by Joanne’s death on March 20. She and her family are long-time friends of both Renfrew Institute and Renfrew Museum and Park.

Wanna do “The Scramble”?

Mark your calendars now to join us Monday, July 4th as we assemble en masse, for fun, fitness and fundraising in support of Renfrew Institute’s activities.

We’re now building our 2011 team to complete the Firecracker 5K course during Waynesboro’s Summer Jubilee. Our goal is 100 participants this year, after getting sooooo close last year with 78 scramblers.

Not a runner? No problem! The event has been modeled for inclusiveness, for everyone from walkers to elite athletes. As committee chair Bob Correll intoned, “Any and all are invited to run, walk, scramble or sight see as they complete the Summer Jubilee Firecracker course wearing the Team Salamander jersey.”

I’m delighted to report that **TruCut Lawn and**



Landscape has pledged support as lead sponsor again this year, ensuring that the team will be clad in matching jerseys bearing the now-famous salamander logo!

In the months preceding the event, there will be opportunities for group support, training buddies, a yoga clinic geared toward alignment and flexibility/injury prevention, and an unbeatable esprit de corps!

We’ll provide materials to help you seek pledges as you raise funds in support of programming the community values. We’ve tried to think of everything...heck, we’ll even provide your “thank-you” notes!

Committee members Bob Correll (chair), Stephen Bui, John Kelley, Fred and Beth Skroban, and Diane Wilson have some fun surprises planned for this year. Thanks to **Advanced Chiropractic, Foot and Ankle Care, CFAR/Waynesboro Running and WACCO Properties**, we also have a very cool list of prizes that includes new Asics running shoes and tons of nifty gear.

Interested in participating? Call or email Tracy at the institute for details and registration materials. Let’s get “scrambling!”

Tracy Holliday

Kody Kelley, right, enjoys a long drink of water after last year’s Salamander Scramble 5K race. Salamander Scramble committee member John Kelley, on left, is Kody’s dad. See related article, top of this page. Photo by Angie Fuss.



Cultural Currents

with Sherry Hesse

EDITOR'S NOTE: *Cultural Currents* is a regular column in this newsletter. It features articles about past ways of life in our area, and strives to help us better understand our cultural heritage.

Butter Stamps: From Everyday Use to Folk Art

A dear friend recently surprised me with an unexpected gift—a lovely sand cast of an antique butter press. The press depicts a sheep, which is a rare design. This design is particularly special to me because in addition to teaching Renfrew Institute's dairy culture school program, I am also a spinner and weaver.

When we teach the program, *From Grass to Milk: Dairy Culture of the Pennsylvania Germans*, part of our display includes antique butter stamps, as well as reproductions which the children can touch.

Molds, Stamps, Prints and Presses

A word about terminology, which can be a little confusing: for our purposes, a butter 'mold' is the receptacle into which soft butter was packed and cooled. When the butter was removed, the mold yielded a shaped quantity of butter that was often rectangular or round.

Many molds included a plunger used to push the butter out of the mold. Some molds were plain; others had designs carved into them—these latter served as both butter molds and butter 'prints.'

Butter prints, also called 'presses' or 'stamps,' were tools used to mark butter with a decorative design. In this article, these terms are used interchangeably.



Making butter was a home industry conducted mostly by women on the farm. Shown here, two women weigh and print butter. Image source: The Progress of the Dairy: Descriptive of the Making of Butter and Cheese for the Information of Youth (New York, Samuel Wood, 1819). The Sinclair Hamilton Collection of American Illustrated Books, Princeton University Library. Reprinted here from Loosening the Bonds, Mid-Atlantic Farm Women 1750–1850, by Joan M. Jensen (Yale University Press, New Haven and London.)



Butter, a Home Industry on the Farm

The making of butter was an important facet of work on the farm. This home industry was primarily conducted by women, and selling butter provided perhaps the only source of economic independence for farm women. Butter was taken to city markets, the local general store, or sold from house to house. Frequently, butter was bartered for other household items.

Various packaging methods for marketing butter were employed. One method was to place a large quantity of butter into a tub. When 'tub butter' was sold, it brought a lower price than smaller, stamped quantities of butter.

A tub of butter could be purchased in its entirety for winter use, or purchased by the scoop. Its quality was questionable, and buyers often tried to sneak a taste before purchasing.

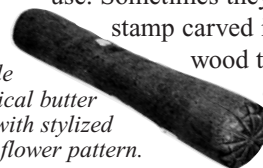
Butter was also packaged in smaller quantities for market. It was crucial that the weight of these individual packages was accurate. Dishonest vendors sometimes tried to cheat their customers by selling smaller quantities than advertised.

To help create a uniform quantity of butter, molds were used, commonly in half-, one- or two-pound sizes.

The butter was usually printed with a decorative stamp. Individual packages of butter were wrapped in 'butter paper' (parchment paper from the general store, soaked in water to make it more supple) then packed into a pail or 'butter box.'

Butter processing tools served a functional purpose, but also brought some beauty into daily life. Women stamped butter for their own home use. Sometimes they used a simple wooden stamp carved into a cylindrical piece of wood to stamp a repetitive design on a roll of butter for their own table.

A simple cylindrical butter stamp with stylized star or flower pattern.



A butter press to mold one pound of butter. Each half-lb. portion was decorated with the twin prints on the mold.

Continued on pg. 6

Butter Stamps, Cultural Currents

(continued from pg. 5)

History of Butter Stamps

The European custom of printing butter was brought to this country by early immigrants. Although they were a common tool—or perhaps because of that—butter prints were rarely mentioned in early documents.

By the 1820s and '30s, butter production had increased, and with it the use of butter stamps. The earliest of these were handmade in a variety of shapes including round, semi-circular and rectangular. Many were carved from one piece of wood and had a short handle. Some were imported; others were carved at home or made by a professional woodworker.

Butter stamps ranged in quality from crude carvings to those made by highly skilled craftsmen. The choice of wood was an important consideration in the making of butter presses. Poplar and maple were common choices because they were durable, but easier to carve than oak.

By the 1850s, butter presses were primarily manufactured. For example, New England butter prints were usually manufactured in small, water powered factories.

The artistic designs carved into butter stamps were symbolic. Patriotic symbols such as the eagle and star were popular; a sheaf of wheat was a common design, indicating the harvest and abundance; pineapples were early symbols of hospitality; cows were popular with early carvers, with an obvious connection to butter; the thistle was the symbol of Scotland; occupational symbols included the sheep or ram.

Religious interpretations were important to the Pennsylvania Germans, including the tulip (or lily) and the heart (center of the spirit). The Pennsylvania Germans also favored geometric designs, which were purely decorative.

It is often assumed that a particular design identified a specific farm. In some cases this may have been true—

but butter stamps were available in the local general store, and it is more likely that designs were chosen based on a buyer's personal taste.

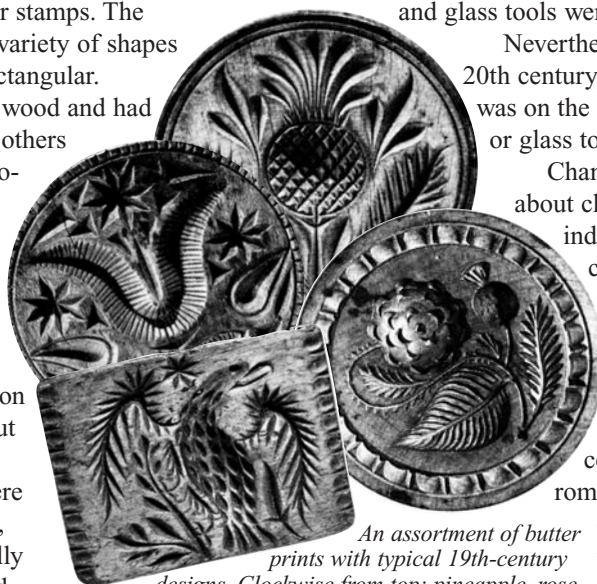
Evolution and Decline of Home Butter Making

By the late 1800s, Sears, Roebuck and Co. and Montgomery Wards sold butter molds and prints in their catalogs. By 1900, metal and glass molds and prints were available—an improvement over wooden molds, which had to be soaked in cold water to remove the butter. Metal and glass tools were also easier to clean.

Nevertheless, by the turn of the 20th century, the home butter industry was on the decline, so not many metal or glass tools were manufactured.

Changes in technology brought about changes in the home butter industry, making butter processing tools collectibles instead of everyday items.

Our ability to buy a box of butter at the supermarket is considered progress, and is certainly convenient. At the risk of romanticizing a laborious task of days gone by, perhaps it is a pity to have lost the personalized style of homemade, decoratively-stamped butter.



An assortment of butter prints with typical 19th-century designs. Clockwise from top: pineapple, rose & thistle, eagle, and tulip.

Bibliography— Published Sources:

Jenson, Joan M. *Loosening the Bonds: Mid-Atlantic Farm Women 1750–1850*. Yale University, 1986.

Plunker, Bruce and Donna. *Old Buttermould Pattern Products*. 315 N. Queen St. Littlestown, PA 17340.

Powell, Elizabeth A. *Pennsylvania Butter Tools and Processes*. The Bucks County Historical Society, Doylestown, PA, 1974. [Ed. note: butter-print images in this article from this source]

Websites:

www.dairyantiques.com

www.historicimpressions.com/Butter



Best Wishes to John Schall

We regret the departure of Renfrew Institute board president, John Schall, effective January 1, 2011. John is a vice president with M&T Investment Group and has been transferred to the office in Carlisle, Pa., where he and his wife, Tammy live.

We thank John for his dedicated service over the past three years and wish him all the best in his new location.

Board vice president, Dennis Koons is serving as acting president through the remainder of this fiscal year, ending June 30, 2011.



WELCOME

New Members!

Note: New members sponsoring specific programs are also listed under Gifts—New Sponsorships on page 8.

Antietam EYE Associates

Phil Kelly

Rodney Bingaman

Ryan, Nichole, Logan

Irene Blackburn

& Blake Klipp

Center Square Real Estate

Steve & Marla Minnick

Settlement Services Inc.

Matthew & Tana Oyer

David & Joan Dionne

Youth Fest ~ Filled to the Gills with Fun for Kids!



Puppeteer Carolyn Koerber with *The Widow*, a character in the puppet tale, "The Widow and the Fishes." The story will be part of Youth Fest's full slate of entertainment geared toward kids. Photo by Brian Rudnick.

"Something Fishy is Happening at Renfrew," and that means fun and games for area youth when Renfrew Institute's 22nd annual Youth Festival happens on **Sunday, May 29 from 1 to 5:30 p.m.**

The event, at Renfrew Park in Waynesboro, is FREE and open to the public.

Activities include interactive workshops for children of all ages, a musical

performance by the Waynesboro Children's Theatre Troupe, a colorful and entertaining puppet show, and a visit from the Fishmobile, an exciting aquatic animal exhibit on wheels. Pre-register for workshops to make sure of your choice.

This fun family tradition is again underwritten by long time Youth Fest sponsor, **Susquehanna Bank**.

Children will be enthralled when puppeteer, Carolyn Koerber of The Puppet Factory presents "The Widow and the Fishes." Set in exotic Indonesia, a land of tall bamboo, rice paddy terraces and volcanic peaks, the story tells of a poor, kindly old widow who lives in a rickety hut at the edge of a forest.

The widow shows compassion for all creatures, but

her wealthy neighbor is too greedy and selfish to help her.

When the widow receives a gift of great fortune from Mighty Siwa, the wealthy neighbor becomes jealous and demands that Mighty Siwa send him sacks of gold.

Come and find out if Mighty Siwa answers his pleas as you watch this charming and humorous story filled with surprises!

Since 1970, master puppeteer Carolyn Koerber has presented puppet theater that excites the imagination. She has performed for the Smithsonian Institution's Discovery Theater, The National Theater, and thousands of schools, theaters, and community groups throughout the mid-Atlantic area.

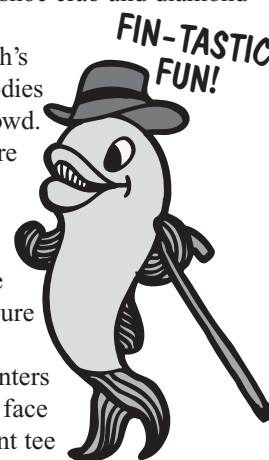
In keeping with the fishy theme, kids will flap their fins for joy when the Fishmobile pulls into town! This traveling aquatic animal show not only has educational displays and aquariums, but also has *touch tanks*—children can touch or even hold living animals from the Chesapeake Bay, including horseshoe crab and diamond-back terrapins!

St. Andrew Catholic Church's Youth Group will return with goodies at their food stand to feed the crowd. Bring-your-own picnic lunches are also welcome.

Volunteer committee members **Kim Sheffer, Kathy Bourdeau** and **Traci Walizer** are working behind the scenes to ensure a fun-filled day.

Additional workshop presenters will offer activities ranging from face painting, to creation of a fish-print tee shirt, to kayaks in the creek! Watch local newspapers and our road sign for details, and opportunities to pre-register for activities.

Youth Fest goes on, rain or shine. Rain location: Waynesboro Area Middle School.



SEE ENCLOSED FLYER!

Time to get ready for the 6th Annual "Recycle/Reuse" Earth Day Yard Sale SATURDAY, APRIL 30, 2011 • 9 AM–3 PM

Mark your calendars for the 6th Annual Earth Day Recycle/Reuse Sale on Saturday, April 30. Rent a space for yourself, your family or your organization. Spread the word to help the Institute raise funds through space rentals and don't forget to come to the sale to find great bargains! Spaces are available for \$15 each, double spaces for \$25 and triple spaces for \$30. Each space accommodates an 8-ft. table or two card tables.

For more information call the institute at 762-0373.



Renfrew Institute is Pleased to Announce New Underwriting Support

In memory of C. Alvin Henicle

C. Alvin Henicle was known for growing food. While attending Washington Township schools, he was the recipient of the Pennsylvania State Farmer's Degree during his junior year, a designation that had never been bestowed upon an underclassman.

In his early life, he raised poultry, vegetables and fruit in his spare time. From 1948 until his retirement in 1977, he built, owned and operated Henicle's Markets at five locations, while he also operated a wholesale produce business.

Alvin Henicle held a firm belief that nothing was unattainable, a philosophy that no doubt underpinned his agricultural and business endeavors.

Farmers and growers of food from all generations necessarily share this faith in unlimited possibilities. The act of planting a seed is an act of faith...faith that the sun will shine, that the rains will fall, and that the wonder of germination will take place.

It was this rich tradition in agriculture and unshakable belief system that guided his family's hand as they offered a memorial gift designated to support the institute's farmstead interpretive program, *From Field to Table*. Alvin's daughter, and institute board of directors member, **Debi Duffey**, reflected on the decision made with her husband, **Greg**.

"I could not have asked for a better Dad who inspired me quietly with his humble ways," Debi said. "He would be thrilled to be a part of this program, educating young people to understand and appreciate our food sources, to which he devoted his entire life. We are proud to support Renfrew Institute's program, *From Field to Table*, in memory of my Dad, Alvin Henicle."



Institute instructor, Doris Armstrong Goldman, left, helps students learn to shred cabbage for sauerkraut in the farmstead program, *From Field to Table*. The program recently received new underwriting support from **Debi & Greg Duffey**, in memory of Debi's father, **C. Alvin Henicle**. Photo by Tracy Holliday.

We know Alvin would be gratified to know that his legacy is helping students gain a greater understanding of our regional agricultural heritage through *From Field to Table*. During their two-hour excursion, our young visitors learn about early settlers' reliance on their own labors and on the natural world for their sustenance.

They also make connections to the modern system that helps provide for our nutritional needs.

Two hundred years ago, farm families worked together to plant, harvest and process food crops. They raised poultry and livestock to provide for their protein needs.

Farmers of today engage in the same work on a much different scale, employing technology unimagined by their forebears. Families may rarely (or never!) see their food "on the stem" or "on the hoof."

In removing ourselves from the origins of our food supply, we risk losing an understanding of how we are nourished, and the labors that are undertaken to keep us well fed. We also lose the relationship with the earth that is the basis of everything we eat...it all begins in the soil!

As students engage in transforming corn kernels ground into meal, or cutting and stomping cabbage into kraut, they "see" the processing steps that once took place on the farm. *Not* seeing those steps (that now happen in a factory setting) can lead young folks to believe that cornbread comes from a box, or kraut from a jar.

Preservation techniques like salting, drying and pickling, used today, employ the same chemistry and biology principles that protected the food supply on this farm, long ago.

Throughout the *From Field to Table* experience, connections are made...aha moments arrive...and dinner conversations are invited as we encourage students to discuss their lessons at home with family members.

It's our hope that by glimpsing into the past, our young visitors can also look into the future, anticipating the work of historic preservation and the adoption of wise decisions regarding our food supply resource chain.

The rich agricultural traditions of this region are sustained and continue to occupy a large sector of the local economy, from dairying to orchards.

We're deeply grateful for this gift, and recognize the special connections Alvin's family drew upon in choosing to honor his memory in this way.

gifts

New Sponsorships

Intern Duo Works to Develop GIS Data Base for Antietam Creek



Working in the field, Dustin Lowry (left) and Patrick Moulden study the GIS (Geographic Information Systems) data base they are creating during their internships at Renfrew Institute this semester. See related articles on pages 10–11. Photo by Melodie Anderson-Smith.

Renfrew Institute, Antietam Watershed Association, Shippensburg University (SU) and several other organizations and agencies have developed a collaborative internship program which began in January 2011. The program is based at the institute and will extend over several years.

SU students, Dustin Lowry and Patrick Moulden are developing a geo data base that contains aerial maps of the West Branch Antietam Creek, the landscape of the watershed, property parcels and features along the creek.

The purpose is to provide a “one-stop shop” of information for watershed managers and streamside property owners. In addition to mapping details, the data base will provide a springboard for technical and financial assistance available to land owners to help them protect streambanks and water quality.

Melodie Anderson-Smith, site supervisor for the interns noted the value of the program: “These two interns have shown commendable dedication to this project and their work is high quality. I’m so impressed with what they are producing.

“It is also rewarding to work collaboratively with so many groups on such a meaningful project. Associate Professor, Dr. Claire A. Jantz of SU’s Dept. of Geography-Earth Science deserves a lot of credit for her role in making this happen. Our own RI board member Rochelle Barvinchack of the Franklin County Planning Department has also been a big help. It is such a pleasure to work with Dustin and Patrick. I can’t thank them enough for giving the project such a good launch!”

[Ed. note: Be sure to read the articles by Dustin and Patrick about their internship project on pages 10–11.]

Dead Zones in Water *(continued from pg. 3)*

N in streams should be removed as far upstream as possible. A bit is used by aquatic plants, but most is removed by denitrifying bacteria as water flows slowly through wetlands, stream debris, and low-oxygen sediments. Denitrifying bacteria need carbon from organic matter, and time to work.

Problem streams can be modified to spread water out and slow it down by making pools and riffles. If land is available, artificial wetlands and ponds near the stream; side channels to direct part of stream flow onto organically rich floodplain sediments; and meanders in the stream can be installed. Woody debris in streams and floodplains act as denitrification “hotspots.”

The bedrock of the Cumberland Valley is porous limestone, so water in lawns and farm fields can quickly sink into the groundwater and deliver a lot of N to the Antietam. Groundwater N also gets into streams with deeply eroded channels, circumventing N uptake by plants and bacteria.

Nitrogen gets into the groundwater less often in the mountains, but when it does, it enters streams from below, bubbling up from springs in the creek. Deep streams can be raised or their sides graded to broaden them and decrease the slope. Vegetated islands can be put in the channel.

For streams that transport most of their N during floods, broad channels graded at two levels will keep storm flow in the channel but increases stream contact with floodplain plants and the carbon in organic debris.



The mission of the Antietam Watershed Association (AWA) is to promote conservation of the natural resources of the Antietam Creek

Watershed by involving the community in watershed protection through conservation projects, land use planning, and educational programs. For more information on AWA, visit their website at www.antietamws.org or call 717-762-9417.

Thank you to the following
who have made special donations
to Renfrew Institute
in memory of...

Thomas J. MacBride

by

H. Clayton Moyer



in memory of...

William Payne

by

Richard and Karen Korczykowski

Antietam Creek Watershed Assessment using GIS Technologies

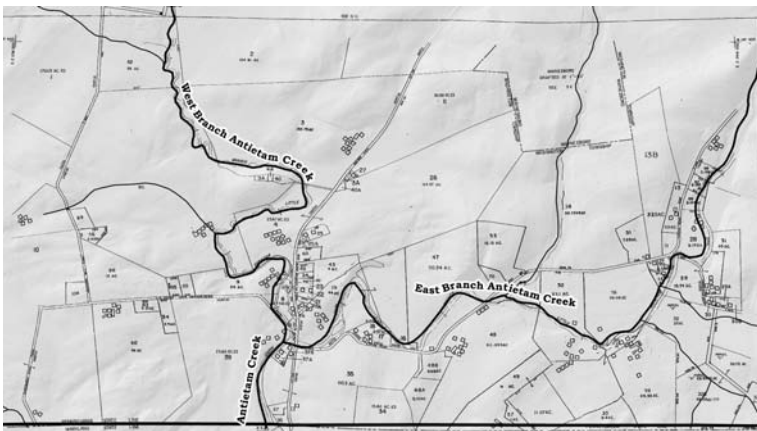
by Patrick Moulden

Hi, my name is Patrick Moulden and I am a Shippensburg University senior, working as an intern with the Renfrew Institute for Cultural and Environmental Studies. I am majoring in Geography/Geographic Information Systems and will be pursuing a career in this field after graduating this May.

My colleague, Dustin Lowry (also an intern at the institute) and I have been working on a dual-sided project during our internship. One aspect of this project concerns monitoring several sites along the Antietam Creek, and the other is building a large digital database for the creation, processing, and storage of spatial data concerning the Antietam Watershed.

The main goal of building this digital database is to identify problem areas in the watershed where mitigation methods need to be put in place. We have been working cooperatively with several local, state, and federal agencies on this project, including but not limited to the Natural Resources Conservation Service, Franklin County Conservation District, Chesapeake Bay Foundation, Antietam Watershed Association, Department of Conservation and Natural Resources, and the Franklin County Tax Office.

Geographic Information Systems (more commonly called GIS), is a term used to describe the processing and analysis of spatial information. This field has recently experienced a boom in growth with advancements in computer technologies, and almost all of the work is now done digitally.



This image is a tax map that has been georeferenced and made partially transparent. The background is a specially-processed, highly accurate digital elevation model (DEM). Overlain on these two layers is a series of stream data that show the East and West Branch of the Antietam Creek where they meet near the Pennsylvania-Maryland border. This map was produced by interns Patrick Moulden and Dustin Lowry using GIS software and a mix of created and downloaded digital data, and is in the early stages of development into a fully digitized map. What appear to be wrinkles on the map are actually contours of the landscape, visible “behind” or “under” the tax map, via the DEM background that was placed behind the map.

Dustin and I have been fervently working on moving the protection of the Antietam Watershed into the digital age by collecting and processing data. This effort included collecting property owner information from Franklin County tax records and maps. These tax maps are crucial to understanding how land use affects the water quality of Antietam Creek.

However, in their raw format—simple PDF files of scanned map images—we are unable to extract information from them using our specialized software. In order to maximize the usefulness of the maps, we performed certain modifications to the files.

The first step in this process is “georeferencing”—assigning spatial attributes to the scanned image so the computer knows where the map is in space.

Georeferencing involves creating reference points on the scanned image to match up to real world points on the ground. The computer then uses a mathematical model to orient and stretch the map so it matches up to real-world locations.

The Earth however, is neither a perfect sphere, nor a perfect ellipsoid; rather it is a lumpy irregular object defined as a “geoid.” It is impossible to convert a flat surface, such as a scanned tax map, to real-world locations without creating some distortion. As geographers, we use mathematical projections and coordinate systems to limit the amount of distortion.

The scanned maps are still just images, and while we can give them spatial references, they are still just pictures—all our advanced software can do is tell us what color each pixel is.

To make these scanned maps into workable digital data that we can process and analyze, we must digitize the map images. This process involves visually locating different features and tracing them digitally to create a point, line or polygon, the basic features of something we call “vector data.” Vector data can store tables of information describing a particular feature.

With the completion of this project we will have a new tool in protecting the Antietam Watershed and all of its biodiversity. ❁



Patrick Moulden samples an aquatic plant growing in the West Branch Antietam Creek at the Nicodemus Dam road along Wharf Road, north of Waynesboro. Photo by Melodie Anderson-Smith.



Nicodemus Dam Restoration and Monitoring

by Dustin Lowry

My colleague, Patrick Moulden and I are currently interning with Renfrew Institute for Cultural and Environmental Studies (RI). We are both seniors at Shippensburg University in Shippensburg, Pa., earning our bachelor's degrees—Patrick's in Geography and mine in Geoenvironmental Studies.

Patrick and I were assigned a project to help mitigate environmental concerns associated with the poor water quality of Antietam Creek. The West Branch is experiencing major degradation issues due in part to agricultural runoff and livestock intrusions along the creek and its tributaries.

The project includes two major parts: developing a GIS (Geographic Information Systems) database of property owners along the West Branch, and monitoring the water quality at several locations along the creek. This has proven to be quite a substantial undertaking!

Several state and federal agencies have been integrated into the project including the Natural Resources Conservation Service, Franklin County Conservation District, Chesapeake Bay Foundation, Antietam Watershed Association and the Department of Conservation and Natural Resources. The vast collection of expertise and knowledge collaborating towards a common goal for this project is outstanding and I am very proud to be a part of this team!

The former Nicodemus Dam, located near the intersection of PA Rte. 316 and Wharf Road, northwest of Waynesboro, Pa., was removed in October, 2010.

A comprehensive project to restore the stream channel, riparian corridor, and floodplain wetlands was implemented following dam removal.

Often times, few stream or wetland restoration projects are followed by monitoring or assessment. The benefits of these types of projects are frequently predicted, but they are seldom documented.

Dustin Lowry collects water quality data from the creek above the site of the former Nicodemus Dam and from below the dam site to compare the two samplings. The Nicodemus Dam was removed in October 2010. Photo by Melodie Anderson-Smith.

Monitoring of the Nicodemus Dam removal site began in January, 2011. We selected locations above and below the former dam to monitor water and air temperature, pH, dissolved oxygen, turbidity, alkalinity, nitrate and orthophosphate levels.

An interesting trend has developed in pH levels. The monitoring site below the former dam consistently yielded higher pH levels than above the dam site. We speculate that alkalinity dissolved from the limestone riprap now buffering the stream bank at the former dam are causing this increase in pH.

Nitrates, a major ingredient in farm fertilizers, produced our second anomaly in the data. The results indicate skyrocketing nitrate levels around or exceeding 10 mg/l while normal unpolluted waters average less than 1 mg/l!

In an effort to stabilize the newly manufactured system around the former Nicodemus Dam, we are planning a riparian buffer that will include native trees and shrubs along the stream channel. The goal is to reduce bank erosion (by slowing water velocity and strengthening the soil using root structures), enhance channel morphologic diversity, decrease nutrient concentrations and provide opportunities for environmental education. A nature trail will be incorporated into the area between the creek and the four new wetlands to the west.

There is a wide variety of benefits associated with riparian buffers. Shade created by trees induces cooler water temperatures, thereby inviting macro-invertebrates and native trout species back into the area. The buffer will also trap and remove pollutants such as phosphates, nitrates and other potentially hazardous run off materials.

The most important and often difficult part of this process is selecting the proper trees and shrubs for planting. They must be able to withstand changing soil characteristics, frequent disturbances and possible flooding conditions.

Live staking, a method of stream bank stabilization, uses short pieces of different tree species which are driven into the ground and allowed to root quickly. This is a common and effective method of planting which we hope to utilize in the project's future.

We will continue to monitor the water quality in this area and hope that by executing our mitigation techniques, we will be able to watch as improvements create a healthy and lively habitat in the West Branch of the Antietam Creek. 🌱



*ng in the West
removal site*



New Underwriting Support

(continued from pg. 8)

Center Square Real Estate Settlement Services, Inc.

Center Square Real Estate Settlement Services, Inc. recently partnered with Renfrew Institute in support of the organization's adult/teen educational activities.

Partners **Clint Barkdoll, Esq.** and **Stephen Kulla, Esq.** both cite a diverse background of legal experience that includes, in addition to their real estate settlement services, both civil and criminal law and dispute resolution. Both have served on numerous nonprofit boards in the community.

Kulla is also founder and executive producer of the Waynesboro Children's Theatre Troupe, which performs annually at Renfrew Institute's Youth Festival.

Barkdoll offered the following remarks about the motivation for the firm's involvement.

"We are pleased to partner with Renfrew Institute to help provide these valuable programs to the greater Waynesboro community. I've had the benefit of attending many of these activities over the years and hope others in our area will continue to discover Renfrew."

The institute's adult/teen activities encompass a wide variety of experiences, from free lectures on topics such as astronomy and genealogy, to workshops in musical instrument craft led by Tom McFarland, bird walks led by Jack Olzewski, owl walks led by institute staff member Lori Schlosser and the popular geology lecture/field trip programs led by geologist Jeri Jones.

We're grateful for this new partnership that permits the continuation of programs the community has embraced with robust attendance.

Antietam EYE Associates, Inc.

Renfrew Institute is pleased to announce a new partnership with Antietam EYE Associates, Inc., where **Dr. Jerzy Kornilow O.D.** and **Dr. Alison Ridenour O.D.**, serve the region with eye care services.



Tom McFarland (third from left), a member of Renfrew Institute's Adult/Teen Education Committee, led a musical instrument workshop in January. Participants made bamboo rainsticks in a variety of sizes over the course of two evenings at Renfrew with extra work at home. Shown here (l to r): Shioban Dominguez, Suzanne Beckwith, McFarland, Andrea Delaney, Susan Delaney, Jennifer Delaney and Christopher Seylar.



Bargains abound for buyers and sellers during the institute's annual Recycle Reuse Yard Sale. Here, vendor Karen Strimple completes a transaction with a yard sale shopper at a previous Recycle/Reuse Earth Day yard sale. The event, scheduled for Sat., April 30, received a new lead sponsor for 2011, **Antietam EYE Associates, Inc.** For more information on signing up for a yard sale vendor table, visit www.renfrewinstitute.org or see the flyer enclosed in this newsletter. Photo by Tracy Holliday.

Dr. Kornilow completed undergraduate studies at Temple University, followed by studies at the Pennsylvania College of Optometry where he received his optometric degree.

He performed residency at The Eye Institute in Philadelphia prior to practicing in Hagerstown, Md. A professional optometrist since 1994, his practice in Waynesboro was established in 2009 and serves patients of all ages.

Dr. Ridenour earned her undergraduate degree from Seton Hall in South Orange, NJ, and her optometry degree from Pennsylvania College of Optometry. She completed a residency in Bel Air, Md.

Drs. Kornilow and Ridenour are parents of Jacob and Nicholas, attendees of institute school programs with their school, St. Mary Elementary, in Hagerstown.

Dr. Kornilow was in attendance, too, as they set off in search of knowledge and adventure on Renfrew's

BELOW: Suzanne Beckwith sands the bamboo she used to create a rainstick. Center Square Real Estate Settlement Services, Inc. recently provided new underwriting support for adult/teen education activities such as this workshop. Photos by Melodie Anderson-Smith.



nature trails. In addition, the boys have enjoyed Summer Institute activities. That personal connection to the institute guided the couple in their generosity when asked to provide lead sponsor support of the upcoming Recycle Reuse Yard Sale.

"We at Antietam Eye Associates look forward to supporting this event with Renfrew Institute," Dr. Ridenour said, "as well as to providing exceptional, comprehensive eyecare for the community."

(continued on pg. 17)

Summer Institute 2011

Renfrew Park, 1010 East Main St., Waynesboro, PA (762-0373)

Summer Institute activities are made possible in part by contributions to the Today's Horizon Fund by PenMar Development Corporation and the Nora Roberts Foundation.

Children's Summer Stories

Tuesdays, June 21–July 26 • 1 pm

Underwriting support provided by sponsor to be announced

Children gather under the tree near the Visitors Center to listen to stories and enjoy related hands-on activities. Preschool and up. Free. Pre-registration not required. If inclement weather, call to confirm. Leaders: Dottie Fawks & Kathy Bourdeau.

Mornings in the Park: Down a Garden Path

Tuesdays, June 21–July 12 • 9:30–11:00 am

Underwriting support provided by sponsor to be announced

NEW! Step into the new four-square garden with Renfrew Institute garden instructors. Join in the fun as we look for hidden treasures and hunt for butterflies and ladybugs. Make garden crafts, explore an old barn, listen to stories, or make rain with watering bells. Each day we will water, dig, pick and play! Wear shoes and clothes that can get dirty. For children completing grades K–4. Limit: 20. *Members \$4 per child/Non-members \$5 per child, per session. Attend one or more. Pre-registration not required. Meet at Visitors Center. Please arrive 15 minutes early to register. *Member discount for memberships of \$25 or more.

Mornings in the Park: Nose to Nose With Nature

Wednesdays, June 22–July 27 • 9:30–11:00 am

Underwriting support provided by sponsor to be announced

Explore nature's best spots in the park with Renfrew Institute's environmental instructors. Check out the weird, wild, wonderful creatures & plants that help make our life on earth possible. Tools, stories, secret missions, music & games will add to the fun and adventure. Bring old sneakers for wading. For children completing grades K–3. *Members \$4 per child/Non-members \$5 per child, per session. Attend one or more. Pre-registration not required. Meet at Visitors Center. Please arrive 15 minutes early to register. *Member discount for memberships of \$25 or more.

Digging Isn't Everything: Working with Artifacts in Archaeology

Thursday, July 21 • 9:00–12 noon

Underwriting support provided by sponsor to be announced

NEW! Digging isn't everything in archaeology. In fact, digging is just the way we get our information. Professional archaeologist, Scott Parker, will help students learn how to clean, identify and record artifacts. They will also learn how the artifacts were made and used, and what they tell us about the lives of people who used them. For students completing grade 6–12. Limit: 10. Fee: *Members \$20 /Non-members \$25. Registration deadline: July 11. *Member discount for memberships of \$25 or more.

FUN! FUN! FUN!

Heritage Crafts: Summer Workshops For Youth • July 18–20

Underwriting support provided by Anonymous Donor

Fee per workshop: *Renfrew Institute Members \$20 • Non-members \$25 (Additional materials fees may apply, see class descriptions)

NOTE: Workshop fees apply to each workshop, per student (i.e., 1 student attending 4 workshops= \$80 member/\$100 non-member)

*Member discount for Renfrew Institute memberships of \$25 or more. Registration deadline for Heritage Crafts workshops: July 11

MONDAY, JULY 18, 9 AM–12 NOON: "POTTERY"

Create hand-built pottery pieces of redware clay, with emphasis on using natural materials for textures. Age: Completing grades 2–8.

Limit 25. Materials fee: \$5. Instructor: Jack Handshaw

MONDAY, JULY 18, 1-4 PM: "PIERCING TIN"

Explore a time-honored craft, learn to work with metal and create a special pierced-tin project. Age: Completing grades 3–8. Limit 8.

Materials fee: \$5. Instructor: Bob North

TUESDAY, JULY 19, 9 AM–12 NOON:

NEW! "WOODWORKING"

Learn the value of hand tools like the ones our ancestors used. With those tools, create a handmade wooden project. Age: Completing grades 5–12. Limit 10. Materials fee: \$5.

Instructor: Barry Donohoe

TUES., JULY 19, 1-4 PM: "FUN WITH FIBERS"

Learn to felt wool, use a drop spindle to make handspun yarn, & use a loom to weave a bookmark. Age: Completing grades 3–8.

Limit 10. Materials fee: NONE. Instructor: Beth Skroban

WED., JULY 20, 9 AM–1 PM: "BASKETRY"

Learn the traditional craft of basketry, and hand weave a functional and beautiful basket to take home. Age: Completing grades 3–12.

Limit 10. Materials fee: \$8. Instructor: Susan Matson.

WORKSHOP FEE INCREASED

FOR THIS WORKSHOP ONLY, DUE TO LONGER TIME:

*Member \$25 & Non-member \$30

WED., JULY 20, 1:30–4 PM: "LEATHERWORK"

Create a handmade leather project and learn about the historic tannery that was at Renfrew 200 years ago. Age: Completing grades 3–6. Limit 12. Materials fee: \$5. Instructor: Ed Beard

All Sessions Meet at Visitors Center. Attend One or More Workshops!

Sign up now for summer fun! Full flyer and registration form available on our website: www.renfrewinstitute.org (Summer Institute tab page) or call us at 717-762-0373 and we'll send you a copy!



Sponsor Spotlights The Power of One

Johnson Controls

Open the webpage for **Johnson Controls** and you'll discover the most prominent feature on the home page is a gateway for viewing the company's philanthropic report, *Impact On Our World Communities*. It's clear that a corporate life rich in community involvement is a cornerstone of the Johnson Controls business plan.

Each year, Johnson Controls' philanthropic efforts advance the work of organizations that provide food and health care services to those in need, environmental stewardship to preserve the planet, funding to keep the arts alive and so much more.

The organizations and causes with which the company aligns are determined to make a significant difference in their communities. We are thrilled to have "measured up" on that yardstick, and to have enjoyed a fruitful partnership with the company since 2004.

Others have recognized Johnson Controls' efforts in good corporate citizenship, too. The company recently announced its first-place ranking in *Corporate Responsibility Magazine's* 12th annual "100 Best Corporate Citizens List." The company ranked first, based on its performance in seven key areas: environment, climate change, human rights, philanthropy, employee relations, financial and governance.

"*Corporate Responsibility Magazine's* first-place ranking of our company recognizes our long-standing commitment to corporate responsibility," said Stephen A. Roell, chairman and chief executive officer of Johnson Controls. "We are honored to be recognized as a leader in this area and congratulate all of the companies named to this list.

"We are proud of our employees, who bring the spirit and focus of *CR Magazine's* criteria for this ranking to their work every day. We applaud our employees' dedication to our values, which govern their interactions with all of our stakeholders and underscore our commitment to the environment, human rights and the communities where our employees live and work."

I can attest to this spirit of commitment to community partnerships that is embodied by the company's employees. Since 2004, I've received annually, in addition to a check

in support of the institute's *Lifesavers of the Chesapeake Bay* program, a personal note from **Scott Sutton**, Director of Engineering Administration/Quality. In his notes, Scott has expressed appreciation for the institute's service to the community, and happiness that Johnson Controls can sustain its involvement. Gratitude of this depth is the rarest of things, and it delights me—in fact, Scott's notes are so warm that I've emailed him to thank him for the thank you note!

Scott's personal commitment to our shared philosophies have placed him in the audience at numerous institute adult/teen education offerings over the years. He has also demonstrated commitment to inspiring others in stewardship behavior, whether a group of Cub Scouts, or young adult learners through his role as teacher/mentor at Kaplan College.

Johnson Controls' commitment to sustainability dates back to its roots in 1885, with the invention of the first electric room thermostat.

Today, Johnson Controls is a global diversified technology and industrial leader, serving customers in more than 150 countries. The company's 142,000 employees create quality products, services and solutions to optimize energy and operational efficiencies of buildings. They also create lead-acid automotive batteries and advanced batteries for hybrid and electric vehicles, and interior systems for automobiles.

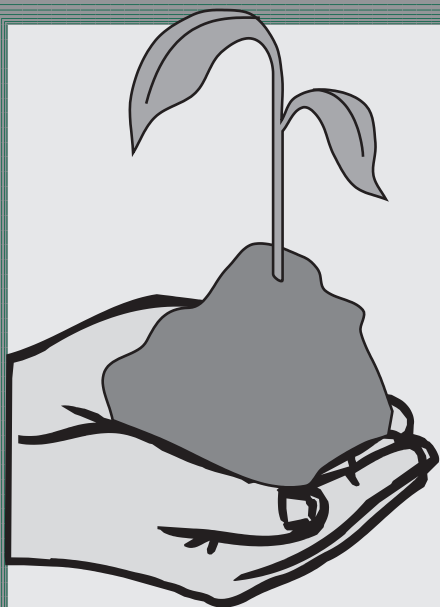
Though energy and automotive industry technologies have changed remarkably since the company's inception more than a century ago, Johnson Controls continues to be rooted to the philosophies that have led to its recognition for leading the way in corporate social responsibility.

We congratulate you heartily, and thank you deeply for including Renfrew Institute among your community partners!

Tracy Holliday



The Lifesavers of the Chesapeake Bay program concludes with the planting of a tree along the East Branch of the Antietam as it flows through Renfrew Park, demonstrating in a concrete way the importance of riparian plantings. Johnson Controls is a long-time sponsor of the program. Photo by Tracy Holliday.



Like to Garden and Make Things Grow?

Volunteer in Renfrew Institute's newly relocated 4-Square Garden!
Garden tasks going on now & continuing throughout the gardening season:

- Transplanting
- Weeding
- Watering
- Harvesting Produce

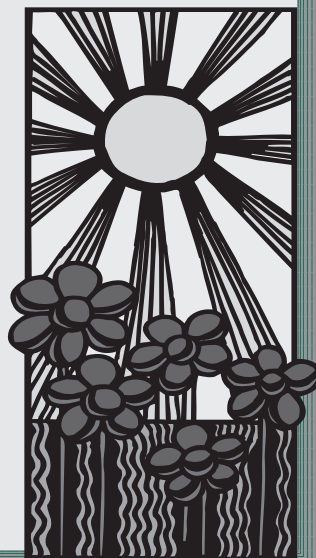
Volunteer Benefits:

- Learn about the historic Pennsylvania German 4-square garden
- Sharpen skills
- Pick produce for personal use
- Help maintain the garden used for teaching area school children about history & gardening
- Enjoy a special Harvest Dinner, & more!

The garden is located in Renfrew Park
1010 E. Main Street, Waynesboro

For more information

Call 762-0373



*Sunday, May 22, 2011
1:30 p.m. • Renfrew Park*

GRAND OPENING

A Long Time

**Germinating—21 Months
from Seed to Flower!**

***It's a Blooming Grand Opening
for the New Four-Square Garden***

A much-anticipated event is almost here—on Sunday, May 22, a celebration is planned for the grand opening of the newly relocated Pennsylvania German Four-Square Garden. Institute garden staff and a crew of volunteers are already hard at work to ready the garden for the new season and a new life.

A ceremonial groundbreaking in August of 2009 signaled the beginning of the real work to create a new garden. As many of you know, the new location is not far from the four-square garden's old location at the Fahnestock complex at the back of the park—but the larger, more level site provides room for so many improvements, better accommodating visits from the public as well as school children participating in institute programming.

The public is invited to the grand opening, which will feature garden-related activities for children, a brief program, and refreshments. We hope everyone will come out to “open” the new garden for its first spring season, beginning many years of service to the public.

School students and other visitors will learn about gardening and so much more! Historic preservation, farmstead culture, folklore, plant biology, natural history, ecology, and environmental awareness are some of the concepts students learn as they plant seeds, water, care for and harvest the bounty of the four-square garden.

This project was made possible through a grant from the PA Department of Community & Economic Development (DCED), and through the generosity of a number of businesses and individuals. Our sincere thanks to the following: James Rock and GRC Contractors, the late J. Edward Beck, Paul K. and Anna E. Shockey Family Fund, and an anonymous donor. In addition, we are grateful for invaluable assistance provided by Rep. Todd Rock and his staff for help with the DCED grant, Brian Stum and B & D Lawn and Landscape Inc., John Frantz, Andy Gehr, Matt Gunder, Debbie Pflager, Wayne Martz, David H. Martin, Red Mohn, Chad Otis and the wonderful board and staff of Renfrew Institute.

Hope to see you on May 22!!



Spring Wildflower Walk

With glad expectations, we hiked downstream.
'Twas Now by the calendar,
Yet, to enjoyably confirm, we hiked, seeking
harbingers, wildflowers.
Bloodroot the prize,
Eyes searching too for Skunk Cabbages,
Virginia Waterleaves, and Cutleaf Toothworts,
Cohorts confirming the coming of Spring.

There it wasn't,
There, where once it used to be.
Where last year and for years it had been,
Though carefully sought by two pairs of eyes,

One pair knowing, the other apprenticing,
Appreciating, seeking to see and learn,
and more, to know.
Finding rather invasives, foreign plants upon
a sun-washed bank
And woody hillside along the Antietam,
Who'd taken over the place.

In a race 'tween native wildflowers and invading
lesser beauty,
The less became more, crowding out bounty
and diversity of life.
Garlic Mustard sprouted from bare soil
made toxic by released chemicals,
Ensuring it solely to occupy the space.
Contrarily, Winter Creeper, with thick matting
of evergreen leaves
Making a smothering shade upon the cool soil,
Spoiled too by a matching, choking mat of roots,
Denying space and nutrients from those over-run.

Shoved aside also, other natives to this land:
River Otter, Bog Turtle, Woodthrush.
Hushed the children's play of
Lenni-Lenape,
Pushed and poisoned
from this place.

*Bob North
With appreciation for
my friend, Melodie
April, 2011*

*Ed. note: Be sure to see
the article on Page 1
about a tradition of
an annual pilgrimage in
search of the ephemeral
Bloodroot.*

*Sanguinaria canadensis,
commonly known as Bloodroot.*



New Underwriting Support

(continued from pg. 12)

The yard sale will take place on Saturday, April 30 from 9 a.m. to 3 p.m., in conjunction with Earth Celebration Day and Festival of Art.

The community has adopted this festive event as a traditional welcome to spring—getting some “spring cleaning” done and offering gently used goods at the yard sale. The event is a great way to implement the “reduce, recycle and reuse” practice while raising some “dough”—and supporting Renfrew Institute’s community activities.

See enclosed flier, or call the institute for more information about attending or registering as a vendor.

Bill and Kathleen Kaminski

Bill and Kathleen Kaminski live in the past! Don’t be confused by that remark— each is fully and intelligently engaged with the world they inhabit, and could even be described as forward looking. It is their “homestead” and its surrounds that transport them to days gone by.



While participating in the program, *Once Upon a Farm*, young visitors in Mrs. Hilmoe’s class from St. Mary Elementary School in Hagerstown delight in donning “costumes” that mirror the attire of long ago Pennsylvania German farm folk. Institute faculty member Stephanie “Firefly” Kober guides their journey “back in time.” The program received new underwriting support from **Bill & Kathleen Kaminski**. Photo by Tracy Holliday.

Nestled on a hillside in Blue Ridge Summit, their home overlooks what was once surely a bustling farmstead. The Kaminskis are aware of and sensitive to the lives and spirits that once occupied that spot.

Bill’s discovery and careful extraction of artifacts—unearthed during tree plantings and beautification projects—has helped them see into the past, learning through those left-behind clues the location of barns and outbuildings, a hand dug well and the original homestead site. Several of these artifacts have been shared for community enrichment with our partner organization, Renfrew Museum and Park.

It was fitting then, when Bill inquired of the institute’s current program funding needs, that *Once Upon A Farm* was on the list. With their own history of membership support since the inception of the institute, and having provided underwriting for the environmental offering,

Fall Walk since 2006, the Kaminskis are now involved in helping some of our youngest learners experience farm life of the 1800s.

A kindergarten student’s notion of history could well be “what I had for dinner last night!” With sensitivity to the brevity of their life experience, the *Once Upon A Farm* experience is tailored to their young understanding of the world and their places in it.

During their two hour visit, students experience fun and memorable activities that help them appreciate what life might have been like for kids their age on a long ago farm.

“For Kathleen and I, supporting Renfrew and its programs comes easily and naturally,” Bill said. “We love the stream, the grounds, and what the Institute is doing for our youth.”

We’re deeply thankful for our friends’ appreciation for historic preservation and natural history, and for their care and support of Renfrew Institute’s activities.

We believe that by welcoming curiosity about nature and the history of the region in our youngest citizens, we may plant the seeds of stewardship that will blossom as these little folks grow into caring adults. Our history with Bill and Kathleen is one we value as we look into the future through the eyes of visiting children.

Tracy Holliday



Siblings Celebrate Birthdays with Gifts— For Renfrew Institute!

Renfrew Institute has received a very generous gift from brother and sister, **Trey and Audrey Foreman**, who requested donations to Renfrew Institute in lieu of birthday gifts at their recent celebration.

Trey and Audrey are long time school program participants, attending annually with St. Andrew Elementary. They’ve also participated in Summer Institute activities since its inception.

Renfrew Institute’s staff members have enjoyed watching Trey and Audrey explore, investigate, garden, build, spin, climb, create, craft and grow throughout their visits. Our fondness for them makes this gift one that is especially warmly received.

Thanks, Trey and Audrey, for your generous hearts, and special care for Renfrew Institute!



Spring/Summer 2011 Calendar of Events

All events supported in part by Today's Horizon Fund contributors:
PenMar Development Corp. and Nora Roberts Foundation.

Bird Walks at Renfrew

Saturdays in April & May, 7:30–10 a.m.



Naturalist Jack Olzewski leads bird walks along the hiking trails at Renfrew Park. Walks begin at Renfrew's lower parking lot off Welty Road. Participants should wear comfortable walking shoes and may bring identification books and binoculars. Free.

6th Annual Recycle/Reuse Earth Day Yard Sale

Saturday, April 30, 9 a.m.–3 p.m.

Underwriting support provided by Dr. Jerzy Kornilow O.D., Antietam EYE Associates, Advance Auto Parts, Dru's Books N' Things, First National Bank of Mercersburg and Total Vac, with in-kind support by Mother Martin's Coupons Combined with Earth Celebration Day. Rent a space at Renfrew Park, bring your own table and sell off your discarded "stuff"—it may be just what someone is looking for! Make extra cash for yourself, your family or your organization. For information & registration form, visit www.renfrewinstitute.org or call 762-0373.



Earth Celebration Day & Festival of Art

Saturday, April 30, 11 a.m.–4 p.m.

Underwriting support provided by Angela Grove Weagly in memory of Joyce L. Ceyler and in honor of Richard D. Ceyler Celebration of earth and spring with environmental exhibitors, student clothesline display, food and music. Franklin Co. Commissioners and the Planning Department will recognize April as Earth Awareness Month. **Festival of Art!**—Area artists display, demonstrate and sell their works. Supervised art activities for children. Rain site: Waynesboro Area Middle School. Free.



Genealogy Workshop: Tracing Your Family Roots— The Ultimate Social Connection

Thursday, May 5, 7 p.m.

Underwriting support provided by Marge Kiersz, and by Center Square Real Estate Settlement Services, Inc. Searching for and finding your ancestor—and all those cousins—is one of the most rewarding ventures you may experience. Genealogist Dorothy Reed invites you to join the search for those missing links in your family tree! Program is free (donations accepted). Registration not required. In the Visitors Center.

Renfrew Rocks! Geology Field Trip: So You Want to Be a Geologist?

Saturday, May 7, 8:30 a.m.–6 p.m.

Underwriting support provided by Marge Kiersz, and by Center Square Real Estate Settlement Services, Inc. Presented in partnership with the Franklin County Rock & Mineral Club.

Geologist Jeri Jones leads this excursion into the fascinating world of fern fossils dating to the age of dinosaurs! Trip visits Schuylkill County, Pa. Some collecting included, with exploration of additional geologic features. Transportation via coach bus only, provided. Pre-registration required. Limited to 44 seats. Fee: Adults (age 15 & up) \$50; children (age 7-14, with paying adult) \$15. Renfrew Institute member discount: \$5 per seat for RI members (at \$25 level) and their children or grandchildren.



Youth Festival 2011

Sunday, May 29, 1–5:30 p.m.

Underwriting support provided by Susquehanna Bank

Something's Fishy at Renfrew

A celebration of youth with workshops, demonstrations, activities, exhibits and entertainment.

Admission is free. Pre-registration for workshops. Rain site: Waynesboro Area Middle School.

Download a flyer at www.renfrewinstitute.org



SUMMER INSTITUTE—SEE PAGE 13 FOR DETAILS

Download a flyer at www.renfrewinstitute.org

Summer Stories at Renfrew

Tuesdays, June 21 – July 26, 1:00 p.m.

Mornings in the Park: Down a Garden Path

Tuesdays, June 21 – July 12, 9:30 – 11:00 a.m.

Mornings in the Park: Nose To Nose With Nature

Wednesdays, June 22 – July 27, 9:30 – 11:00 a.m.

Heritage Crafts for Youth

July 18 through July 20 (daily, times vary)

Digging isn't Everything: Working with Artifacts in Archaeology

Thursday, July 21, 9:00 a.m. – 12 noon

14th Annual Chesapeake Bay Supper Fund Raiser

Friday June 24, 6 p.m.

Waynesboro Country Club

Underwriting support provided in part by the State Farm Good Neighbor Grant Program through retired State Farm agent, Joann Hersh.

Show your support of Renfrew Institute. Join us for an enjoyable evening of steamed blue crabs from the Bay, delectable side dishes and dessert, live and silent auctions and other Bay-related activities.

Reservations required; form available at www.baysupper.org.



4th Annual Salamander Scramble 5K Run

Monday, July 4, 8 a.m.

Underwriting support provided in part by Tru Cut Lawn & Landscape, Advanced Chiropractic Foot & Ankle Care, CFAR/Waynesboro Running and WACCO Properties. Additional sponsor opportunities available, please call Tracy for details at 762-0373.



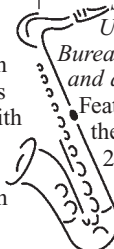
Held in conjunction with Waynesboro's Fourth of July Jubilee Firecracker 5K Run. Team Salamander raises funds for Renfrew Institute with pledges from friends, family, and co-workers. All athletic levels welcome. Pre-race training runs offered for team members. Registration form, pledge form, and flyers available at www.renfrewinstitute.org, or call (717) 762-0373, or email: renfrewinst@ininternet.net.

20th Annual Jazz Festival

Sunday, August 21 OR 28, 2–4 p.m. (date to be confirmed).

Underwriting support provided by Franklin Co. Visitors Bureau, PA Partners in the Arts, Fives, Cinetic Landis Corp., and additional sponsors TBA

Featuring top professional jazz artists, festival will be held on the lawn behind the museum house. Includes a concert from 2–4 p.m. followed by an informal question and answer period. Rain site: Waynesboro Area Middle School auditorium. Free. Open to the public. Featured artists to be arranged. Donations accepted.



14th Annual Chesapeake Bay Supper Fund Raiser

Don't
Miss It!

Friday, June 24 • 6:00 pm

WAYNESBORO COUNTRY CLUB

Invitations will arrive
in May. Tell your
friends and come
out & support
Renfrew Institute
with a great evening
of food, fun & frolic!



"Super Crab" says—Mark
your calendars now!—this
event really **IS** all its
"cracked up" to be!

Help us grow the bottom line
on this fabulous fund raiser!

Wanna make a Big Splash?

Help pay for blue crabs with a lead gift of \$1500!

Call Tracy for details: 762-0373



Such Royalty

The queen skirted off to the south
Her expectant train of ladies still waiting.
The king marched majestically north
With regal flashes and drums unabating.

Between them, we common folk wondered
At capricious reign and precipitous aire.
We stood in the dimpled dust.
While such royalty scattered showers...
elsewhere.

By Bob North (June 2010)

Renfrew Institute Annual Meeting Announced:

Monday, July 18, 2011 • 6:45 PM
Visitor Center

RENFREW INSTITUTE BOARD OF DIRECTORS

(Position temporarily vacant), *President*

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Robert J. North, *Faculty*

Pamela Rowland, *Faculty*

Lori Schlosser, *Faculty*

Beth Skroban, *Faculty*

Nora Slick, *Faculty/Summer Institute Coordinator*

Our Wish List...

- ❖ Card table—used, in good condition
- ❖ Scissors—adult size, office quality (4 pair)
- ❖ Book: *Soil! Get the Inside Scoop* by David L. Lindba; Soil Science Society of America; available online at www.societystore.org or by phone 1-608-268-4960 (item #: B60913) OR donate \$23 to Renfrew Institute to buy the book (includes \$3 S&H) and we'll order it!
- ❖ Book: *Eastern Birds' Nests*, by Hal H. Harrison, a Peterson Field Guide
- ❖ Donation to purchase digital camera (\$150). Staff needs to choose camera for specific requirements.
- ❖ Funding for replacement items in period clothing for instructors—any amount appreciated!
- ❖ Additional underwriting sponsors for this newsletter, educational programs or community events

Wish List "Thank You"

- ❖ **Sue Smith:** Basketry supplies
- ❖ **Randall & Victoria Sprengle:** Ice cream buckets

Beyond the Wish List... Thank You Too!

- ❖ **Jen Atkinson:** Boxes for kindergarten program, *Once Upon A Farm*
- ❖ **Dick & Joann Hersh:** Epson printer cartridge; large recycle bin on wheels
- ❖ **Kathy Seiler, Jason & Michelle Levick:** baby food jars for dairy culture school program
- ❖ **Brian Toro:** Granules from ISP used for rainstick workshop
- ❖ **Karen Manderson:** Fabric scraps for *Once Upon A Farm* program and repair of Marvin puppet
- ❖ **Bonnie & Bob Wolff:** Cash donation in support of educational programs.

More Beyond the Wish List Thanks

- ❖ **Mountain Valley Real Estate (Joe Young III):** Collection of bird eggs in glass-lid case; insect collection
- ❖ **Mountain Valley Real Estate (Joe Young IV):** Collection of East Coast beach sand samples
- ❖ **Steve Graham:** The following equipment for use in farmstead programs—assorted antique baskets, antique storage bin for wood or grain
Books—*A Field Guide to the Stars & Planets* (Peterson Field Guides) by Donald H. Menzel & Jay M. Pasachoff; *Mammals* (Peterson Field Guides) by William H. Burt & Richard P. Grossenheider; *Spiders & Their Kin* by Herbert & Lorna Levi; *Birds of North America* by Chandler Robbins, Bertrel Bruun & Herbert Zim; *Audubon Society Field Guide to North American Birds, Eastern Region* by John Bull & John Farrand, Jr.; *Peterson Field Guide to Birds*; *Peterson Field Guide to Eastern Birds*; *Recognizing Native Birds* by William Carey Grim; *Bird Songs* by Les Beletsky; *Birds of North America* ed. by Shirely L. Scott; *Trees of North America* by C. Frank Brockman; *Pond Life* by George K. Reid; *Butterflies and Moths* by Robert T. Mitchell & Herbert S. Zim; *Non-flowering Plants* by Floyd S. Shuttleworth & Herbert S. Zim; *Trees* by Allen J. Coombes; *A Field Guide to the Birds* by Roger Tory Peterson; *Audubon Land Bird Guide* by Richard H. Pough; *Hawks* (Peterson Field Guide) by William S. Clark/Brian K. Wheeler; *Common Trees of PA, Commonwealth of PA*; *Trees* by Jonathan Pine; *Natural Pennsylvania, Exploring the State Forest Natural Areas* by Charles Fergus; *Jack-In-The-Pulpit* by Jereme Wexler; *Woods, Ponds & Fields* by Ellen Doris.

Streamside

Renfrew Institute for Cultural and Environmental Studies
1010 East Main St. Waynesboro, PA 17268 (717)762-0373
www.renfrewinstitute.org

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membership for 2010-11!

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you from this year!



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