It only takes 65,000 sq. miles of WILL!

Just finished reading the Alliance for the Chesapeake Bay's monthly publication, Bay Journal. It’s one of those incredibly informative papers that makes me read it cover to cover. At Renfrew Institute we teach about the Bay a lot—like in our fifth grade school program, Lifesavers of the Chesapeake Bay, and in the sixth grade Discovering Wetlands and in the after-middle school program, Water Striders. The Bay Journal helps our staff keep abreast of the latest developments in the effort to save the Bay and our local Antietam Creek watershed.

There is some good news in this issue—that it may not take as much money to restore the Bay as scientists and officials once thought. With new technologies, the removal of nitrogen (and other pollutants) from municipal waste water and from agricultural run-off may be possible without excessive cost. The “kicker” though is that even cost-saving initiatives won’t happen without political leadership and the commitment of farmers and home-owners throughout the watershed. It won’t happen without our will to see it through.

How much this new information will lower the $19 billion originally estimated to clean up the Bay remains to be seen. It will still be expensive, and recent political will in the Bay states (Pa., Md., Va., W.Va., N.Y., Del.) has weakened. Much remains to be done before we can overcome the negative impacts of population growth and poorly planned land use in the 65,000 sq. mile Chesapeake Bay watershed. Our local area (part of the Bay watershed) is also facing these issues.

Why am I mentioning this in Streamside—other than that I knew you would be interested? Because it shows that people must put their heads and hearts together to solve problems. They can effect amazing results, but the “striving toward the goal” part takes time, energy, money and, most of all…will.

Renfrew Institute can take a lesson from this too. When you get to page 15 you will see last year’s financial statement showing a deficit (-$11,468). That’s a big “ouch” for us, but not unusual in the non-profit world these days. It has weakened. Much remains to be done before we can overcome negative impacts of population growth and poorly planned land use in the 65,000 sq. mile Chesapeake Bay watershed. It won’t happen without our will to see it through.

Our is a resilient organization with tremendous support in the...
Resources-fulness

Resources are finite. From the water and land essential to our existence to the fuel and paper essential to our modern lives, these are limited. You don’t have to tell anyone at Renfrew Institute that resources are finite. This is what we teach.

Money is a resource, too, and finite. The board has learned this year just how finite a resource money can be. At our January meeting, we reviewed our current budget and saw once again that we are faced with a budget deficit. In my last President’s Message in September, I described the situation and the steps that the board and staff were taking to tackle the deficit.

As I said in September, the institute’s budget deficit is not a reflection of the financial health of the organization. In fact, there is good news: we are holding the line on expenses and keeping the deficit from growing. We also have reserves that will enable us to continue to operate.

To step up development efforts, the board identified three ideas to generate additional income. One of those ideas—summer camp for youth—is now a casualty of the deficit. The board decided that while a summer institute might break even, we cannot take the chance that it could add to the deficit.

The other two ideas included a new fund raiser and an increased effort to acquire grants. The Development Committee, chaired by Steve Rost, has determined that the best chance (pardon the pun) for a successful fundraiser this year will be a raffle. The committee views this as a one-time effort and will be investigating ideas for a new fund raiser for 2004-05. In the meantime, catch Steve’s insert about the raffle in this issue.

The Development Committee is also rigorously pursuing grant writing by targeting organizations that represent good opportunities. In addition, assistant director Tracy Holliday is doubling her efforts to both write grants and obtain program sponsors. Tracy has identified several “hot” prospects and we hope they lead to funding for programs.

We will not be able to wipe out our deficit this year, but hope to reduce it and plan carefully next year to continue its reduction.

While I said earlier that the institute’s summer camp was a casualty, it is not dead. The board is committed to a full summer institute in 2005. In the meantime, Charlene Good, chair of the Youth Education Committee, is planning a six-week slate of summer activities for kids, which will continue to grow our programs.

As always, the people of the institute are nothing if not resourceful.

Welcome New Faculty Member

Renfrew Institute welcomes Stephanie Kober, our newest faculty member. Stephanie began teaching at the institute this past fall, with a focus on the primary programs for younger children.

Although born in Hagerstown, Md., Stephanie moved to Waynesboro in her teens and graduated from Waynesboro Area Senior High School. She has a degree in Elementary Education from York College. Stephanie has been a substitute teacher for the Waynesboro Area School District for several years, and has taught in all of the elementary schools, as well as the middle and high schools. “I enjoy the variety and change, and working with kids in all age groups,” she said. With two children of her own, she also likes the flexibility of working as a substitute.

While working at Mowrey Elementary, Stephanie spoke with institute faculty member, Angie Zimmerman about teaching at Renfrew. Soon after she began her new job at the institute, “I love it!” she says. “The kids are so enthusiastic about being there…they love being outdoors. It’s such a wonderful learning environment… the kids are so receptive, and they really want to hear what you are saying. The whole experience is very gratifying for a teacher and I love it!”

Institute director, Melodie Anderson-Smith, is delighted to have Stephanie on board. “Stephanie’s enthusiasm, energy and rapport with children are exceptional,” she said. “We are just so fortunate to have her as part of our staff.”

In addition to her teaching jobs at Renfrew and as a substitute, Stephanie also has a volunteer job at Ski Liberty in the winter. She lives in Waynesboro with her husband, Rob, and children A.J., 7, and Gracie, 10.

Downstream

With Angela Zimmerman

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

Saving Energy: Conservation at Home

It’s easy to take energy for granted. We use it to heat our homes, cook our food, fuel our cars and run our appliances. New advancements in technology require us to use more and more energy.

But what is all this energy costing us? Besides oil bills, gas bills and electric bills, there’s another cost to consider—the environmental cost. According to the Alliance to Save Energy (ASE), energy production and use account for nearly 80% of air pollution and more than 88% of greenhouse gas emissions. Energy consumption causes more environmental damage than any other human activity.

Most of our energy is derived from nonrenewable resources: fossil fuels. Some of this fuel is used directly in furnaces or engines. Fossil fuels are also used indirectly to produce electricity. Power plants burn coal, oil or natural gas to power generators which produce energy that is sent to our homes and businesses. Alternative power plants that use renewable resources (such as solar energy or wind power) to produce “clean” energy are in the minority.

Unfortunately, once energy reaches our homes it is not used very efficiently. According to the Office of Energy Efficiency and Renewable Energy in the US Department of Energy (EERE), the amount of energy wasted through doors and windows in American homes is equal to the amount of energy we get from the Alaskan pipeline each year. The average home has enough leaks around doors and windows to equal an open three foot square window. (ASE)

The average home uses 44% of its energy for heating and cooling, 33% for lighting, cooking and other appliances, 14% for heating water, and 9% on refrigerators (EERE). This energy use releases 22,000 pounds of carbon dioxide annually compared to 11,500 pounds for a typical car (US Environmental Protection Agency).

A few changes can make a dramatic difference in home energy consumption. Insulating and weatherizing your home is a great place to start. Using hot water wisely also makes a difference. For instance, a family of four who each showers for just five minutes a day uses 700 gallons of water in a week. Aside from using a great deal of water, showering also uses a lot of energy to heat the water long before the shower begin. Low-flow showerheads and faucets help decrease the amount of hot water used. Washing machines and dishwashers also use energy for operation as well as energy for hot water. Insulating your hot water heater and all hot water pipes helps prevent heat loss and saves energy.

The landscaping around your home also affects energy usage. Trees can make a great difference in heating and cooling costs. Daytime air temperatures in tree-shaded neighborhoods were found to be 3–5 degrees cooler than neighborhoods without trees in a study by the Lawrence Berkeley National Laboratory. In fact, three carefully placed trees can save the average household up to $250 annually in heating and cooling costs. For example, deciduous trees on the south and west sides of your home will block the summer sun with their leaves; in the winter, bare branches allow the sun’s rays through to help heat your home. Evergreen trees can serve as wind breaks to slow down cold winter winds and help reduce home heating needs. (EERE)

Probably the easiest way to begin conserving energy at home is to change the light bulbs. Traditional incandescent bulbs have short lives, produce heat and use a lot of energy. Fluorescent lights, long used in businesses and schools because they are more efficient, can now be used at home by replacing standard incandescent bulbs with compact fluorescent lamps (CFLs). Although initially more expensive, CFLs pay for themselves over time. A CFL lasts up to ten times longer than an incandescent bulb and uses far less energy.

CFLs are most efficient in areas where lights are left on for an extended period of time. According to the ASE, if a homeowner replaced the four most used 100 watt incandescent bulbs with CFLs, he would save $108 in three years. If all US households did this, we would save the amount of energy produced by 30 power plants each year. That’s the same amount of energy used by seven million cars in one year!

Another way to save energy and money at home is to use EnergyStar appliances. A variety of these appliances are available, from dishwashers and washing machines to TVs and VCRs. Although the initial cost may be higher, EnergyStar appliances save money in the long run. For example, refrigerators use more energy than any other (continued on page 5)
You can compare your home energy usage with the online brochure. US Department of Energy: Office of Energy Efficiency & Renewable Energy.

5. Endowment Corner—Building a Foundation for the Future!

Our sincere THANK YOU to the following members and friends who made contributions to Renfrew Institute’s endowment fund in response to last spring’s supplemental giving campaign. The fund value more than doubled in the past 9 months reaching just over $14,400! Of course we have a long way to go to reach our goal of one million dollars. Please keep Renfrew Institute in mind this spring 2004 and, if possible, put a few dollars aside for this fund again.

Contributions are welcome year round. Please make your check payable to Renfrew Institute (memo “endowment”) and send them to: Renfrew Institute, 1010 E. Main St., Waynesboro, PA 17268. For information about including Renfrew Institute in your estate planning, please call our office at 717-762-0373 or email us at renfrewinst@innernet.net.

June & Harry Anderson
Melodie Anderson-Smith & James Smith
Lou & Jackie Barlup
Ed & Marie Beck
Mike & Denise Beck & Family
Leonora Bernheisel
Beta Chapter Y-Gradale
John C. & Lois Bittner
John & Barbara Blubaugh
Blubaugh’s Tire & Wheel Sales
(Mr. & Mrs. Charles Blubaugh)
Vincent & Kathryn Bourdeau
Mr. & Mrs. Robert W. Brown
Kenneth H. & Audrey D. Broyles
George & Marty Buckey
Ronald H. & Mary Jane Collins
Dr. Max E. & Nancy H. Craguer
Col. & Mrs. B.D. DeDona
Mr. & Mrs. James Deegan
Jean G. Dornast
Paul & Barbara Dunlap
Dorothy T. Fawks
Put & Jane Feagle
William Flohr
William H., Jr. & Doris Gelbach
William G. & Elizabeth S. George
Charlene Good
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Norma & David Hess
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Tim Rahn & Nancy Hughes
Claire Hunter
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David S. Keller Family
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Lynn Y. MacBride
Mr. & Mrs. Thomas MacBride
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Martz Plumbing & Heating, Inc.
Mr. & Mrs. LeRoy S. Maxwell
Kimmarly C. Marcin
Josephine L. McClure
Peggy McCleary
Dr. & Mrs. Dennis McCullough
Beverly B. McFarland
Ms. Frederick Mez
Mr. & Mrs. Edward A. Miller
Edward C. Miller
Barbara Mitges
Richard & Wendy Mohm
Susan & Tom Murphy
William & Diane Nitterhouse Foundation
Owls Club of Waynesboro
Debbie & Bill Pfalger
Edna L. Rice
Chris & Connie Richwine
M. James Rock
Charles E. Rodgers
Rouzzville Lions Club
Mr. & Mrs. William R. Russell, Sr.
Mary Ellen Selvaggio & Patric Schlee
Dr. & Mrs. William F. Shull
South Central TaekWondo
Charles & Eunice Statler
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Carroll & Louanna Sturm
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Peg & Dick Walsh
Mr. & Mrs. William G. Weagly, Jr.
Mr & Mrs. Joseph R. Weber
Angela Grove Weagly
Bill & Maggie Yoder
Donald W. Yost, Jr.

65,000 Sq. Miles of WILL (continued from page 1)

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6. Saving Energy (continued from page 3)

home appliance. The typical refrigerator sold in 2002 with many modern features uses far less electricity than a comparable 1980 model. If your refrigerator is more than 10 years old, consider replacing it.

For more ideas on how to save energy, check out the EERE website for an online brochure called Energy Savers. You can compare your home energy usage with the average American home using your electric and gas bills. Just a few simple changes can make a big difference—remember, saving energy at home is as simple as changing a light bulb.

http://www.energysavers.gov/energy-savers /

Alliance for the Chesapeake Bay
http://www.alliance.org

EERE and ASE websites
http://www.eere.energy.gov
http://www.asa.or.g

7. E-Mail List

Want to be on our E-Mail list?

If you would like to be on our Information E-Mail List please let us know. We will pass on occasional information about upcoming institute events and projects as well as articles or sources for educational information on environmental and cultural topics related to the mission and activities of Renfrew Institute.

Be assured that we will not publish or share your email address in any way, and mailings will not list the entire mailing group in the “To” line. Your address will remain only within the email program on the institute’s office computer.

To sign up: E-mail our office at: renfrewinst@innernet.net with “Please register for e-mail” written in the subject line. Call Melodie at 717-762-0373 with any questions.

This poem honoring the sun was created at Renfrew during the Green Energy program by students in Bobbi Blubaugh’s 4th grade class, Fairview Elementary School.

The Sun

Circular energy,
Red rays,
Blinding light,
Hot gas,
Warm and yellow,
Big and shiny,
Bright and orange,
Happy and sweaty,
Far and round,
Atmosphere floats,
Humongous and fiery,
Burning Fireball.

The Bay Journal is available ONLINE at www.bayjournal.com or send your name and address to: Alliance for the Chesapeake Bay
6600 York Road, Suite 100
Baltimore, MD 21212

Melodie Anderson-Smith
Since 1990, Rotary Club of Waynesboro has been a supporter of Renfrew Institute’s programming for children. They began by underwriting the sixth grade program, Discovering Wetlands. With Rotary’s help, the Wetlands program became solidly established. In 1994, Rotary helped the institute launch a new, year-round environmental program for kindergarten students entitled Earthseekers.

It represented a departure from the traditional two hour program format used in other Renfrew offerings.

Terry Eisenhauer, long time Rotary member and treasurer, offered the following remarks:

“Rotarians have historically been very strong supporters of the education of our children, the environment and the fostering of family living. Earthseekers is a perfect match. Many of our Club’s 800-plus members, including myself, have had wonderful stories related to us from our children as to ‘what they had learned from Mother Nature in an environment which takes them out of the traditional classroom.’”

The Earthseekers program ties the nature center to the school and home together to create a comprehensive learning experience. At Renfrew, students meet the puppet character, Mother Nature, and her marvelous Wonder Truck. Through seasonal activities using the five senses, the students learn to become “certified Earthseekers.” At school, children anticipate “Earthseeker Time” as letters from Mother Nature arrive. A classroom Wonder Box holds special tools for outdoor activities in the schoolyard.

Parents play a special role, too. During the year, children share “Wonder Work at Home” activity sheets with family members. These simple activities provide reinforcement for concepts learned at Renfrew and at school.

F & M Trust has also been a long-time supporter of institute activities, having contributed to Earth Celebration Day since 1992. Beginning in 2000, F & M Trust embraced an appeal by the institute to co-sponsor the Earthseekers program. Their ongoing support has enabled the institute to continue welcoming some of our youngest student naturalists.

Karen Davis, Community Office Manager of F & M Trust, underlines the goals of the Earthseekers program. "F & M Trust is pleased to have the opportunity to support this program. We feel that Earthseekers offers what is so many, the beginning of an experiential journey in the discovery, appreciation and celebration of nature. This journey not only includes the children participating in the program, but also their parents and families. It is with great pride that we support the Earthseekers program, a program that touches so many of the children of our community.”

Renfrew Institute greatly values the long term relationships we enjoy with F & M Trust and Rotary Club of Waynesboro, and is grateful for their generous support (Renfrew) to create a comprehensive learning experience for the children of our community.

Tracy Holliday

(continued on pg. 13)
Tom McFarland Wears Many Hats at Renfrew Institute

Artist, musician and teacher, Tom McFarland has brought enthusiasm and multiple talents to Renfrew Institute for over a decade. “I can hardly remember the first time I came to Renfrew... it seems like I have always been involved with the institute,” Tom said.

That involvement has extended to many institute activities. Tom was born in Sharon, Pa. He holds bachelor’s and master’s degrees in fine arts from the Maryland Institute College of Art in Baltimore. After teaching in Baltimore for several years, Tom came to Waynesboro in 1969, where he is an art teacher at Waynesboro Area Senior High School.

His 39-year professional career included a 10-year hiatus from teaching, devoted full time to his art, mostly sculpture. However, Tom kept a hand in teaching during that period, he said. “I taught classes with gifted students at Mont Alto campus and at Hagerstown Community College.”

It was as a teacher and an artist that Tom first helped with an institute event. “I did the first flute [adult education] workshop with Patrik Schiele,” he said. “Pat taught a show to make an ocarina, a clay flute.” Since then, Tom has participated as instructor in many adult education workshops.

Tom’s musical talents have also been employed at Renfrew. “I have performed at many of the Earth Day celebrations,” he said. Tom, who has played guitar “for 55 years,” occasionally writes songs, as well. He wrote a special song in honor of Renfrew Institute’s tenth anniversary, and performed it for an appreciative audience during the anniversary celebration in July, 2000.

Tom conducts children’s sculpture and painting workshops during the institute’s annual Youth Festivals. He also serves on the Bay Supper Fund Raiser committee, helped build the pumpkin-hurling trebuchet and volunteers every year at Pumpkin Fest.

“I love Renfrew,” he said. “People speak of it as being the ‘crown jewel’ of Waynesboro, and it is. Whenever I have visitors from out of town, I always take them to Renfrew.”

As for his ongoing involvement with the institute, Tom said, “I just have had a lot of fun there. It’s a fun place to be.”

Staff Field Trip—Water...Connecting the Drops

On a cold January afternoon, about a dozen Renfrew Institute staff members and Water Strider students took a field trip to Waynesboro’s Water Treatment and Sewage Treatment Plants.

“Tours of both facilities were led by Operations Manager, Gordon Cruickshanks, and were arranged by institute faculty member, Lori Schlosser.

The group learned first-hand how the borough is supplied with water—from its entry into the reservoir, through a series of treatment processes, to the water taps in our homes and businesses.

Waynesboro’s water supply comes from surface water, not wells, and is naturally very “soft” with few minerals. The Waynesboro Reservoir and Water Treatment Plant are located in Michieux State Forest. The borough owns six acres around the plant and 1,000 acres upsteam. The reservoir, created in 1951, collects water from the 11-square-mile watershed upstream from the plant.

Reservoir overflow enters the plant as “raw water,” where it begins the 3-hour process to become clean water. The 1993 treatment plant uses state-of-the-art technology. Raw water is first treated with chemicals, including chlorine, fluoride, corrosion inhibitors and lime. Treated water then goes through a “backwash” process, followed by filtering through layers of anthracite coal, sand, and gravel. Once clean, the water enters a clear water holding tank from which it is pumped into the borough. At least every hour, water samples are tested manually in the plant’s onsite lab. Computer analysis and monitoring are also an integral part of the process.

The treatment plant serves 12,000 customers in the borough. “Finished” or clean water flows from the plant at an average rate of 1.2 million gallons per day—far below the capacity of the treatment plant. The plant is projected to be adequate for local water requirements until at least 2030. This projection includes consideration of the additional load of proposed new development users. The 1993 treatment plant is projected to be adequate for local water requirements until at least 2030. This projection includes consideration of the additional load of proposed new development users.

The field trip continued to Waynesboro’s outdoor Sewage Treatment Plant, where waste water is cleaned, processed and eventually released into the Antietam Creek. Waste water from households in the borough enters the treatment plant through the sewer system at the rate of 800,000 gallons per day, well under the plant’s 1.6 million gallon capacity. Storm runoff does not pass through the treatment plant.

A series of steps separates and removes organic and inorganic solids from the water, resulting in “gray water.” The gray water goes through clarifying tanks to remove more matter, then through a complex filtering system. Once treated, the water is released into a discharge stream, which was constructed for storm water runoff. Several miles downstream it enters the East Branch Antietam Creek.

(See field trip photos on page 9)
Magic Spot Reflections
These pages contain poems inspired by the beauty of nature at Renfrew Park. Students and teachers attending the 4th grade program, Green Energy, are encouraged to record their thoughts or write a poem during “Magic Spot” time. The poems, written in the Fall of 2003, are unedited.

The sun is lovey
It is getting quieter and quieter.
My magic tree is where I want to be.
I hear a locust in the trees and a grasshopper in the wilds.
Water rushing in the air.

Voiles are blue
Nature’s song is playing just for you.

Roses are red
Strong, mighty a bird.

Cody, Hooverville Elementary
My magic spot is silent, except for the special flow of the river.
My magic spot is warm because of the small stream of sun light seeping through the trees.
My magic spot is perfect because I like all of these things.

Angelica, Fairview Elementary

"My Magic Spot"
I hear the wind rustling through the trees. A spider is looking for a home or a nearby tree. I see horseyflies flying from leaf to leaf trying to get away from the wind. I hear a woodpecker pecking in a hollow tree.

Mackenzie, Hooverville Elementary

Celsea, Fairview Elementary
My magic spot is perfect because I like all of these things.

My magic spot is where I want to be.
I love my magic spot, it has a hole.
I wonder how tall my magic tree is at…

Stacey, Hooverville Elementary
My magic tree is where I want to be.
I wonder how tall my magic tree is.
I don’t care if someone cut it down.

Megan, Fairview Elementary
My tree is bare.
I don’t care if someone cut it down.
I don’t know if someone cut it down.

My magic tree is where I want to be.
I want to be where I can think of sun light seaping through the trees.

I don’t know where I want to be.

My magic tree is where I want to be.
I hear a locust in the trees and a grasshopper in the wilds.
Water rushing in the air.

James, Hooverville Elementary
My magic spot is where I want to be.
My magic spot is silent, except for the special flow of the river.

Angelica, Fairview Elementary

“Sun Center”
It is cool the sun is lovey
The sun is lovely
It gives me energy.
It always make me smile.
It gives me energy
It always make me smile.

Kelli, Hooverville Elementary
My magic spot is silent, except for the special flow of the river.

My magic spot is perfect because I like all of these things.

"My Magic Spot"
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Celsea, Fairview Elementary
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Stacey, Hooverville Elementary
My magic tree is where I want to be.
I wonder how tall my magic tree is.
I don’t care if someone cut it down.

Megan, Fairview Elementary
My tree is bare.
I don’t care if someone cut it down.
I don’t know if someone cut it down.

My magic tree is where I want to be.
I want to be where I can think of sun light seaping through the trees.

I don’t know where I want to be.

My magic tree is where I want to be.
I hear a locust in the trees and a grasshopper in the wilds.
Water rushing in the air.

James, Hooverville Elementary
My magic spot is silent, except for the special flow of the river.

My magic spot is perfect because I like all of these things.

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Losing a Friend…

Colleen L. Larson

We are missing someone very special at Renfrew Institute… a dedicated volunteer… Colleen Larson. Her death was a blow to all of us and to many of you reading this.

In earlier issues of Streamside we featured Colleen (and her husband Frank). You may remember reading about her… how she showed up every Wednesday to volunteer—helping with so many tasks related to school programs and office work. She was dependable. She was dedicated. She was a steward of the environment and a steward of both Renfrew Institute and Renfrew Museum.

Colleen cared about our kids’ programs and she didn’t much to provide props and booklets, data sheets and necklaces, corn cob bird feeders and photo collages. She had a hand in nearly every program at one time or another. But Colleen also cared about the Royer farmstead. She was an active member of the Toll Gate Garden Club and was also an instructor in adult literacy programs.

Colleen’s smile and sense of humor were contagious. Her passion for the environment and the focus of much of her activity.

But Colleen also cared about the Royer farmstead. She much to provide props and booklets, data sheets and necklaces, corn cob bird feeders and photo collages. She had a hand in nearly every program at one time or another. But Colleen also cared about the Royer farmstead. She was an active member of the Toll Gate Garden Club and was also an instructor in adult literacy programs.

Colleen’s smile and sense of humor were contagious. Her passion for the environment and the focus of much of her activity.

Frank and to daughters Chey Larson and Bonnie Larson Brogdon. We thank them for naming Renfrew Institute as a recipient for memorial gifts. Colleen is remembered fondly by our staff and will always have a place and a presence in the institute… especially on Wednesdays.

Melodie Anderson-Smith

Tributes—way of recognizing someone special through a gift to Renfrew Institute

A Star Tribute to honor of Karen Manderson has been given by Afcon Cleveron. Back to page 1

Family continued

Richard & Peggy Wahl
John & Holly Wheeler
Kristin & Andrew Zaruba
Dr. Robert R. Zimmerman, DDS
Mr. & Mrs. William J. Zook

Associate
Carolyn S. Abbott
June & Harry Anderson
Dan W. Austin
June Arthur
Carolyn Ashman
Bonnie Bachtel
Altha H. Barkey
L. Joe, Lanie Miller & A. J. Benchoff
Berta V. Gauld Chair Sorority
Francis & Ferdinand Betts, Jr.
Mr. & Mrs. Donald Bollinger
Robert & Kathy Bosicki
Joan Bowen
Joseph & Christine Bradley
Herminie H. Brewer
Neil & Jacqueline Brewer
Jean Brinster
Phyllis & Don Brothers
Liz & Marie Campbell
Ronald & Helen Carney
Dr. & Mrs. James H. Craig
Bucky Derrich
Carolyn Edky
Norman Epstein
Robert & Mary Eubanks
Exchange Club of Waynesboro
Harry L. Fisher
Janini P. Foster
Bruce & Dori Francis
Carl Gardner
Julianne Griffin
David Y. Grove
Russ Hager, Vice President
C. M. Ollfay & Son, Inc.
Barbara L. Hahn
Kathryn Helfrick
Judith A. Herz
Norma & David Hess
Vicki Hess
Sherry & Scott Hess
Dorothy Hill
Stacy A. Hoffmann
Blaine & Mildred Holliday
The Holiday-Ledden Family
Vicky Jo Huff
George Hud
Ginny Ivey
Mr. & Mrs. Paul J. Jones
William & Kathryn Kanishik
Pamela & Ralph Karol
Larry H. Klotz
Diana Kompsztálová
Diane Kreb
Bonnie & Larry Brogdon
John R. Lackey
Colin & Mrs. F. P. Lombard

Family

Marilyn McCorry
Dr. & Mrs. Dennis McTighe
Dennis & Phyllis McTighe
Beverly McFarland
Brianne (Kady) Menz
Edward C. Miller
Mary Louise Miner
Robert & George Mudge
Richard & Wendy Mohl
Elizabeth Moss
Pamela K. Mossey
Clayton & Ploy Moyer
Roy & Josie Nester
Melvin & Frances O’Dell
Chris Roberts
Paula S. Ringer
Mr. & Mrs. Charles Rodgers
Mr. & Mrs. William R. Russell, Sr.
Mary Ellen Selvaggio & Patricia Schie

Museum.

A donation has been made to the museum in memory of…

Robert F. “Soops” Unger
by Judge John W. Keller

Members 2002-2004 (continued from pg. 7)

** Educational programs for school children

M & T Bank – Four Square Garden* & Pumpkin Festival
Martz Plumbing & Heating – Streamside
Maxwell Law Offices – Promotional brochure
Mont Alto Family Practice – Conocheague
Morgan Stanley – Streamside
Mountain View Reclamation Water Striders (after school program)
William & Diane Nitterhouse Foundation – Four Square Garden**
Noelker & Hall Associates – Chesapeake Bay Supper
Paul D. Oantage, M.D. – Conocheague
PA Humanities Council – Lecture Series
PA Partners in the Arts – Jazz Festival
PA Foundation Credit Union – Hallowsen Storytelling
Patterson & Kutz, PC – Chesapeake Bay Supper
Betsy Pateau – Flax Culture**
Mary Ann Payne, in memory of Helen Heit Myer – Woodlawn for Pawsible**
Ronnie Martin Realty, Inc. – Conocheague
Rotary Club of Waynesboro – Corn Maze Ads
Stephen A. Rost – Chesapeake Bay Supper
Sentry Trust Company – Conocheague
Savage Family Pharmacy – Four Square Garden**
State Farm Insurance Co. – Conocheague
Waynesboro Historical Society – Corn Maze Ads
Waynesboro Lions Club – Discovering Wetlands**
Waynesboro Lions Club – Corn Maze Ads
Waynesboro Lions Club – Corn Maze Ads

* = Honorary - for donation of special time, talent and/or materials

Bruce & Dori Francis
Brian, Deborah & Connor Jacobs
Robert F. “Soops” Unger

Colleen B. Larson
George & Mary Buckey
Jim & Bonnie Larson Brogdon
Bruce & Dori Francis
Mr. & Mrs. R. Gordon Heidelbach
Beverly & Herloner Luider
Cheryl Larson
Debra Matthews
Steve Matthews
The Savage Family (Bill & Nancy, Sydney, Rodger & Ben, Stacey & Mike Clever)
Sandra & Bruce Schaeffer
William & Dori S. Spangler
Toll Gate Garden Club

A Star Tribute in honor of Karen Manderson has been given by Afcon Cleveron.

Margaret Keller Memorial Program Fund Report
$437 Roasted Turkey “sit-upon” cushions
Total income of $437 from the Margaret Keller Memorial Program Fund for 2003-04 will be used to help purchase 200 new sit-upon cushions for use by students during the institute’s outdoor programs.

The fund, established in 2000 through a bequest from long-time institute member and friend, Margaret (Marty) Keller, is held in a secured investment account with the income used annually to purchase equipment or complete projects that directly effect the school children attending Renfrew Institute’s programs. Donors wishing to help the fund grow may send a check (with memo “Keller Fund”) in any amount to: Renfrew Institute, 1010 E Main St., Waynesboro, PA 17288.

Margaret Keller Memorial Program Fund

Wetlands**
Corn Maze Ads
Wake

Maze Ads

Maze Ads

Maze Ads

Maze Ads

Maze Ads

Maze Ads

Maze Ads

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Maze Ads

Maze Ads

Maze Ads

Maze Ads
Water Striders Still Making Strides

This fall, Renfrew’s Water Striders group continued testing water quality in the East Branch Antietam Creek and exploring the world of the watershed! For instance, did you know that you could take approximately 108,616 baths just from the water that ran off of Renfrew property from rainfall caused by hurricane Isabel?!? This was one of many facts we examined as we took a field trip around Waynesboro investigating the impacts of land use and development on runoff and water quality. (See photo below and related photos on page 15.)

We are continuing to monitor Antietam Creek through the winter and further explore aspects of the watershed including geology and morphology. We invite any middle or high school aged students to come and join us! For more information please contact Jennifer Esser at 762-7582.

Jenne Esser

What’s Under the Bridge?

(Above) Water Striders Emily Shipman points to a row of solidified mineral deposits on a stone wall. Below, left to right) Water Striders Jenna Miller, Emily Shipman, Gloria Showalter and leader Jenne Esser take a closer look at the “stalactites” they discovered on their field trip.

The A-Maizing Monster Corn Maze

Many thanks to “Maze Master” Garrett Blanchet who created the mystifying Maze of the Rings design for 2003’s Monster Corn Maze. The maze proved to be the most successful to date. Thanks also to Garrett for his work with the ever-popular pumpkin-hurling trebuchet—always a big attraction at the Pumpkin Festival.

Thanks are also due to Debbie Pfalger for her tireless work as coordinator of both the Corn Maze and Pumpkin Festival. Her hard work and dedication enabled these two events to come off beautifully. After three years as coordinator of both events, Debbie is “retiring” from the corn maze portion of her “job.” Hats off for a job well done!

★ VOLUNTEERS WANTED ★

A “Co-Organizer” for the 2004 corn maze is needed to work with Richard “Red” Mohr on this exciting project. If you are interested in helping, or even in just finding out what is involved, call the instate at 762-0373.

Corn Maze and Pumpkin Fest Final Tally

Renfrew’s Monster Corn “Maze of the Rings” and the Pumpkin Festival were smashing successes this year! Net profits from these fund-raising events were $8,000 from the Corn Maze and $5,000 from the Pumpkin Festival. Profits benefitted both Renfrew Institute and Renfrew Museum & Park.

Total Income $107,161

Total Expense $118,629

Renfrew Institute Financial Statement 2002-03

(Revenue: July 1, 2002 - June 30, 2003)

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Reneewal Reminder:

Please check the back page of this newsletter. If you see a green Earth Stamp (like the one below), that means you have not yet renewed your membership for 2003-04. Please do…we need your support. Thanks!

A Special Thank You!!!

I just wanted to take the opportunity to thank the staff of Renfrew for the incredible internship experience. I have an interest in local geology and the work done here inspired me to work toward a career in this field. I have been an undergraduate student and have never taken a course in geology before. I have been interested in the field for as long as I can remember. I would like to be a geologist and work on environmental issues. I have been a member of the Renfrew Water Striders group for three years and have always enjoyed exploring the world of the watershed. I will be attending Carleton College and I hope to pursue a career in geology and environmental science.

Thank you for all the work you have done!—Jennie

Rocks at Renfrew

Did you know that the Appalachian Mountains of today were once comparable in size to the Himalayas? Did you know that glaciers never reached this area of Pennsylvania and yet the rocky ground in Pennsylvania was caused by the close proximity of glaciers? Did you know that limestone found in the outhouse baths just from the water that ran off of Renfrew property from rainfall caused by hurricane Isabel? This was one of many facts we examined as we took a field trip around Waynesboro investigating the impacts of land use and development on runoff and water quality. (See photo below and related photos on page 15.)

These facts and many more can be found in a new brochure on the Rocks at Renfrew, created by intern Jennifer Esser. The brochure takes a look at the historic geology of our region and its cultural impact on the Renfrew property.

“It is easy to take for granted the rich and powerful past that formed the mountains and topography in the area that we in Waynesboro call home,” the author notes. “Even those with an interest in local geology may find it difficult to grasp the magnitude of natural history present at our doorstep.”

Local geology has had a profound influence on the current and historical uses of the rich land in our area, including the Renfrew property. According to the brochure, “The predominant limestone bedrock in our region produces a rich and fertile soil that has been drawing farmers here for centuries.”

Let us share the interest and excitement of geology with you this spring! Rocks at Renfrew offers an understandable and fun glimpse at what happened in Renfrew’s geological past. Brochures are available inside the visitors center.

[Ed. note: See calendar of events for information about the “Renfrew Rocks” geology program scheduled for March 15 & 20.]

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**Winter/Spring 2004 Calendar of Events**

**Renfrew Rocks! — Geology Seminar & Field Trip**
**Renfrew Institute**
Thursday, March 18, 7 p.m. & Saturdays, March 20, 8:30 a.m.
Underwritten in part by Walker & MacBride Offices, div. of Barley, Snyder, Sniff & Cohen
Geology professor, Jeri Jones presents an informative journey into the geologic history of our area. Thursday evening, a free slide talk in the Renfrew Visitor Center. Saturday, a field trip explores notable examples of special geologic formations in our local area. Participants may bring hammers & collecting bags (optional). Committee will provide carpooling. Field trip fee $5.

**Adult Flying Workshop-Beginners**
Saturday, March 27, 9 a.m.-12 noon, Visitors Center
Presented through a partnership between Renfrew Institute and Autumn Fly Anglers
"Make & take" workshop led by Sterling Buzzelfield, President of Autumn Fly Anglers. Complete instruction, tying materials, tools and equipment provided. Fee $12/members of Renfrew Institute, $15/non-members. Pre-registration required. Ages 15 & up.

**Bird Walks at Renfrew**
Saturdays in April & May, 7:30-10 a.m.
Underwritten in part by Walker & MacBride Offices, div. of Barley, Snyder, Sniff & Cohen
Willard Rahn leads bird walks along the hiking trails at Renfrew Park. Walks begin at Renfrew’s lower parking lot of Welby Road. Participants should wear comfortable walking shoes and may bring identification books and binoculars. Free to the public.

**Spring Lecture Series: Antique Furniture**
Thursday–March, April & May (speakers & dates to be confirmed), 7 p.m., Visitors Center
Underwritten in part by Charles and Ondine Warner
Three specialists will help us learn about antique furniture—how to spot a bargain, how to judge quality, and care & restoration techniques. Sponsored by Adult Education Committee. Admission free.

**Eleventh Annual “Renfrew Fun Fly”**
Saturday, April 10 or 17 (date to be confirmed—please call), 10 a.m.-4 p.m.
Kite flying (10 a.m.-4 p.m. and children’s kite workshop (11:00 a.m.-noon) with kiteman, Bill Flohr, in the meadow behind the museum house. Kite workshop material fee $1. No fee for free flying (bring your own kite). Open to all ages.

**Earth Celebration Day**
Sunday, April 25, 1-5 p.m. Visitors Center and park grounds
Underwritten in part by JESI PA and additional sponsor(s) to be announced.
Renfrew Institute celebrates the spring season with environmental exhibits, student clothesline display, music and more. In cooperation with the Franklin County Commissioners and the Planning Department, the event will help recognize April as Franklin County’s Earth Awareness Month. Rain site: Waynesboro Area Middle School. Free admission.

**Spring Party**
Thursday, May 20 or Friday, May 21, 9-12 noon
Presented through a partnership between Renfrew Institute and Tri-State Astronomers
Join members of the Tri-State Astronomers for telescope viewing of the night sky. Scopes will be set up in the backyard of the Renfrew Museum house. Free and open to the public. No registration.

**Youth Festival 2004**
Sunday, May 30, 1-3:30 p.m.
Underwritten in part by a grant from Citizens Bank of Southern PA
A celebration of youth with a variety of workshops, demonstrations, activities, exhibits and entertainment. Admission is free. Pre-registration for workshops. Rain site: Waynesboro Area Middle School.

**Renfrew Institute’s Seventh Annual Chesapeake Bay Supper Fund Raiser**
Friday, June 25, 6 p.m., Waynesboro Country Club
Show your support of Renfrew Institute. Join us for an enjoyable evening of steamed blue crabs from the Bay, delectable side dishes and dessert, educational Bay displays, raffle, silent auction and other Bay-related activities. Reservations required. Cost to be determined.

**Renfrew Institute**
Jazz Festival
Sunday, August 22 (date to be confirmed), 2-4 p.m.
Underwritten in part by grants and sponsors to be announced.
Renfrew Institute’s thirteenth annual jazz festival featuring top professional jazz artists will be held on the lawn behind the museum house. Performance will include a single concert from 2-4 p.m. In case of rain, the event will be held in the Waynesboro Area Middle School auditorium. Free (pending funding) and open to the public. Featured artists to be confirmed.

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**Watchable Wildlife—Pennsylvania’s Economic Powerhouse**

Watchable wildlife is an integral part of Pennsylvania’s natural heritage and an important factor in the state’s economy. According to Keystone Wild Notes (Fall 2003), “Activities related to watchable wildlife recreation generated $1.98 billion [yes, that’s a ‘b’!] in economic activity in Pennsylvania during 2001.”

This information, the result of a recent analysis by Southwick Associates, demonstrates that watchable wildlife activities are a vital part of Pennsylvania’s economy, as well as an important recreational resource for residents and visitors. At least one in three Pennsylvanians participate in wildlife-related recreation—ranging the state third nationally behind New York and California.

In 2001, watchable wildlife recreation generated $961.7 million in total sales, including:
- $83.4 million—food & drink
- $18.5 million—lodging
- $96 million—bird seed sales

Much of this spending occurs in rural areas, making it an important part of the rural economic base. In addition, almost 19,000 full- and part-time jobs were created statewide by the spending and activities related to watchable wildlife.

Both state and federal governments benefit from this activity. According to the study, watchable wildlife spending generated $56 million in state sales tax revenue, $18 million in state income tax revenue, and $87 million in federal income taxes.

However, very little of this revenue goes back into supporting Pennsylvania’s wildlife—in fact, no money from the state’s general funds support wildlife agencies. The Wildlife Resource Conservation Fund is the most important state source of non-game wildlife funding. Much of its revenue is derived from the sale of special license plates and from donations on the state income tax form.

*Southwick Associates is a Florida-based consulting firm. Data for the analysis came from the 2001 National Survey of Fishing, Hunting and Wildlife-Associated Recreation, a study completed every five years by the U.S. Fish and Wildlife Service.

**PA Wildlife Needs Your Help!**
Remember to mark the check box on your tax state form to help preserve Pennsylvania’s wonderful wildlife!

---

**AWA Spring: Riparian Plantings & Tour**

The Antietam Watershed Association has several events planned for the spring/summer of 2004.

April 24: Riparian planting project with the Chesapeake Bay Foundation and the Beaver Creek Watershed Association in Washington County, Maryland.

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**Renfrew Institute Board of Directors**
Timothy W. Rahn, President
Allison B. Kohler, Vice-President
John S. Birbaugh, Treasurer
Lorraine & Willard Rahn
Secretary
Sherry Hesse, Chair
Deborah W. Pflager
Tracy Holliday, Assistant Director
Nancy Hall, Faculty
Melodie Anderson-Smith, Faculty
Doris Goldman, Faculty
John W. Keller, Faculty
Stephen A. Rost, Faculty
Linda F. Zimmerman

**Renfrew Institute Staff**
Melodie Anderson-Smith, Director
Sherry Hesse, Director of Cultural Studies
Beverly McFarland, Account Manager
Andrea Stubblefield, Director of Public Relations
Doris Goldman, Faculty
Nancy Hall, Faculty
Stephanie Kohts, Faculty
Edna Rice, Faculty
Lori Schlosser, Faculty
Nona Slick, Faculty
Lousiana Shelly, Faculty
Angela Zimmerman, Faculty
Our Wish List…

- One or two pairs of wool carders @ $45/pair
- Children’s scissors – new, need both blunt & sharp point, up to 20 pair
- Reproduction wooden bucket with rope handle (for use in farmstead school programs)
- Additional underwriting sponsor(s) for this newsletter ($250 to $1,000)
- Funding for 40 additional rain ponchos for use by school groups ($400)
- Garden cart with bicycle-style pneumatic wheels (new or used, in good condition)
- WalkieTalkies – up to 4 pair (for use during corn maze operation and other special events)
- Card table
- Adjustable-arm desk lamp
- Book: *An Age of Barns*, by Eric Sloane, Ballantine Books, NY

Wish List “Thank Yous”

- Martz Plumbing & Heating: Sponsorship funding for this newsletter
- Doris Goldman: book – *Four Wings and A Prayer*, by Sue Halpern (butterflies)

Beyond the Wish List…Thank You Too!

- Frantz Family: loan of artifacts for use in the school program, *Field To Table*
- Mark Mohn: solid oak computer table, like new
- Paul’s Market: discount on small pumpkins for *Green Energy* program
- Phil & Jerry’s Meats & More: donation of Lebanon bologna for school program, *Field To Table*
- Steve Rost: purchase of the book *Foundation Directory*, to assist in grant-writing effort

Don’t forget to renew your membership for 2003–04!
An “Earth Stamp” here means it’s time to renew!