

THE CATALYST

SLIPPERY ROCK WATERSHED COALITION MONTHLY ACTIVITIES UPDATE

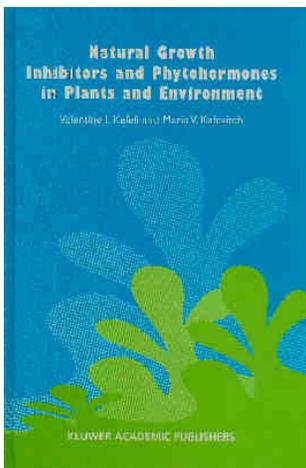
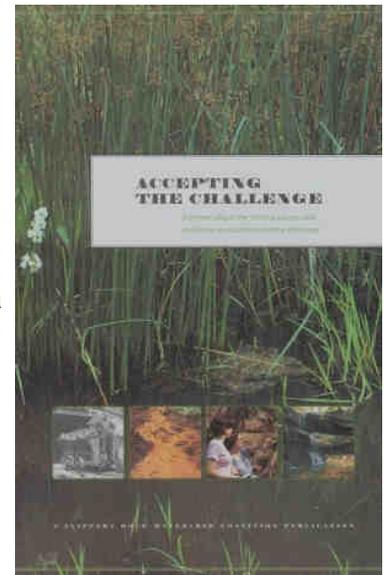
THIS MONTH'S MEETING: Thursday August 14th at 7pm Jennings Environmental Education Center, pizza and pop will be provided. 7/10/03 Attendance: S. Busler, C. Cooper, E. Coughlin, C. Denholm, M. Dunn, J. Dunne, D. Johnson, V. Kefeli, C. McClure

Announcing the SRWC Video!

Stream Restoration, Inc. received a **DEP** grant to fund an educational video about the Slippery Rock Watershed Coalition and its work with passive treatment to remedy the effects of abandoned mine drainage. Narrated by **Will Taylor** of the Jennings Environmental Education Center, the video was produced by **Brian Staszal** of New Media Design for Web and Television. Brian's talent in this field is evident! This fast-paced and informative ten-minute video gives an explanation of the history and background of the SRWC, its goals, and its accomplishments. Special stress is placed on the value of public/private partnerships and teamwork in obtaining success. One of the main goals of the SRWC is identified as providing educational opportunities for all who are interested. The video examines the causes and effects of AMD, its relation to Pennsylvania's rich mining history, and focuses on discussion of different types of passive treatment systems and how they work. Many organizations and individuals are recognized for their help in the SRWC. Portions of the video are based on information from the AMD book "Accepting the Challenge." Thank you **Deanna Treter** for all the time and help you gave to the making of this video!

New Books to Look for!

The **second edition** of the educational book "**Accepting the Challenge**" was recently published. Written primarily by **Will Taylor** of the Jennings Environmental Education Center, the book details the history, causes, and solutions to abandoned mine drainage. Also contributing to the book were **Margaret Dunn** and **Shaun Busler** of Stream Restoration Inc. About 2000 copies of the book have been distributed to various groups of people, including home school students, college students, interested professionals, citizens, and more! The students in **Melissa Busler's** Environmental Science class at Evangel Heights Christian Academy enjoyed using the book this past school year when studying a water unit focusing on AMD. "Accepting the Challenge" is easy to read and understand, gives clear explanations of the issues, and includes lots of great color pictures. Several copies were distributed at the World Water Congress and PA GIS Conference (See Next Page). Funding for the book's printing was provided by a **Butler County mini grant, Dominion Community Impact Award, and The William & Frances Aloe Charitable Foundation—thank you!** Be sure to get your copy of the 2nd edition of "Accepting the Challenge"!



Congratulations to SRWC's soil scientist **Valentine Kefeli**, whose new plant physiology book "**Natural Growth Inhibitors and Phytohormones in Plants and Environment**" has sold over 500 copies in just two months! Co-authored by **Maria Kaleyvitch** of Robert Morris University and edited by **Bruno Borsari** of Slippery Rock University, the book addresses the proper balance between natural growth inhibitors and phytohormones for optimum plant growth and health. The book examines practical applications for achieving a more sustainable agriculture, discusses plant-soil interactions, and focuses on the authors' lifetime studies of many aspects and effects of plant growth inhibitors and phytohormones. The book was published by Kluwer Academic Publishers, based in The Netherlands, and has been sold internationally. A second printing of the book is planned soon, and Valentine has been asked to write another book!



Dr. Bruno Borsari (left) of Slippery Rock University and **Dr. Valentine Kefeli** (right) of BioMost, Inc. are pictured at the 2003 SRWC Symposium. Bruno is the editor of Valentine's new book "Natural Growth Inhibitors and Phytohormones in Plants and Environment" (see article on front page of this month's Catalyst). Bruno and Valentine were exhibitors of a related paper and poster at the Commonwealth of PA University Biologists 34th Annual Meeting, held at Shippensburg University.

SRWC on Tour

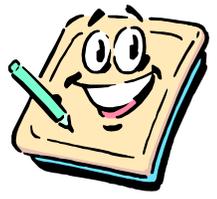
The **World Water & Environmental Resources Congress** was held June 23-26 at the Adam's Mark Hotel in Philadelphia, PA. The purpose of the conference was to examine various issues impacting water and environmental resources to protect and restore them. Some of the many topics covered at the conference included irrigation and drainage, GIS and satellite technology, wastewater issues, watershed restoration, water issues specific to PA, and dam safety. It truly was a "world" water congress, with several international presenters coming from as far away as South Korea, India, Hungary, Poland, the United Kingdom, Brazil, Taiwan, France, Sri Lanka, China, Turkey, Germany, and more, to share their research and ideas. **Shaun Busler** of Stream Restoration Inc. attended the conference and gave a dazzling PowerPoint presentation about the efficiency of passive systems for treating abandoned mine drainage and their impact on receiving streams. Shaun co-authored this paper with **Dr. Fred Brenner** of Grove City College. Shaun discussed the benefits of passive treatment over active/chemical treatment, and was able to share several success stories of passive systems currently at work treating AMD in the Slippery Rock Watershed. His audience was very interested with the information and asked good questions!

The **11th annual Pennsylvania Geographic Information Systems (GIS) Conference** was held June 24-25 at the Hilton and Whitaker Center of Harrisburg, PA. **Shaun Busler**, representing the Slippery Rock Watershed Coalition, attended the conference and participated in the vendor exhibition with a poster about the SRWC. Shaun attended the plenary and concurrent sessions to learn more about state and regional GIS issues, how NASA uses GIS, GIS training, and more. He had a wonderful time meeting and speaking with many people, sharing about the work done in the Slippery Rock Watershed to remedy the AMD problems, and asking questions of the GIS technology wizards! His wife, **Melissa Busler**, who accompanied him on the trip, was amazed to see how many different ways GIS is used. The participants of the conference were well-fed! The 2004 GIS Conference will be held May 10-12, again at the Harrisburg Hilton and Whitaker Center. A special **thanks to PASDA's Maurie Kelly, Chris Pfeiffer, and Ryan Baxter** for providing Shaun and Melissa the opportunity to attend this conference! As Pennsylvania's official geospatial information clearinghouse, **PASDA is a valued member** of the GIS community. PASDA offers many services, free of charge, and works to share information and form partnerships among citizens, governments, and businesses in the Commonwealth of PA. To learn more about this valuable organization, visit the official PASDA web site at www.pasda.psu.edu.



The KIDS Catalyst

SLIPPERY ROCK WATERSHED COALITION FUN ACTIVITY



Insects word search challenge

Of all the living creatures in the world, **insects** are the most numerous and varied: they make up more than 70% of all animal species! Scientists who study insects are called “entomologists” and they have identified over 1 million species of insects! Many more species are believed to exist, but have not yet been discovered or identified. All insects have an “exoskeleton” - a skeleton on the outside of their bodies! The exoskeleton is divided into 3 parts: head, thorax, and abdomen. All insects have a pair of antennae, 3 pairs of jointed legs, and most insects have 1 or 2 pairs of wings.

The names of 12 kinds of insects are hidden in the word search below. Try to find them all, and return your finished word search to us to receive a free gift certificate. Maybe you'll want to try to find all of these insects in your yard!

p	v	i	p	b	d	n	g	b	u	m	b	l	e	b	e	e	c
w	j	v	o	l	u	r	b	r	d	b	m	x	z	k	h	e	i
d	s	l	a	h	e	t	a	q	a	z	e	k	k	s	e	g	c
e	a	l	n	x	u	a	t	g	p	s	l	f	t	m	e	r	a
h	d	s	t	t	d	x	f	e	o	p	s	l	p	m	e	n	d
m	f	n	e	u	p	a	c	h	r	n	g	h	y	b	j	o	a
o	c	r	i	c	k	e	t	h	o	f	f	b	o	o	m	l	h
s	l	p	y	m	p	r	f	s	l	p	l	l	l	p	e	n	d
q	z	b	m	o	t	h	v	i	y	t	p	y	y	m	p	h	v
u	d	j	h	v	v	j	b	j	r	p	o	e	j	h	i	e	k
i	b	k	k	a	e	s	p	g	k	e	v	l	r	m	k	a	r
t	c	o	c	k	r	o	a	c	h	f	f	n	i	a	r	w	d
o	s	d	n	x	z	h	k	m	v	j	n	l	b	b	m	o	g
q	m	s	o	v	y	g	i	k	p	q	q	n	y	r	g	q	k

grasshopper	dragonfly	firefly	cicada
butterfly	ant	bumblebee	leafhopper
cricket	mosquito	moth	cockroach

Did you know: There are more beetles on earth than any other type of insect?!

Name _____

Age _____

Address _____



Slippery Rock Watershed Coalition c/o Stream Restoration Incorporated
A PA Non-Profit Organization
3016 Unionville Road
Cranberry Twp., PA 16066

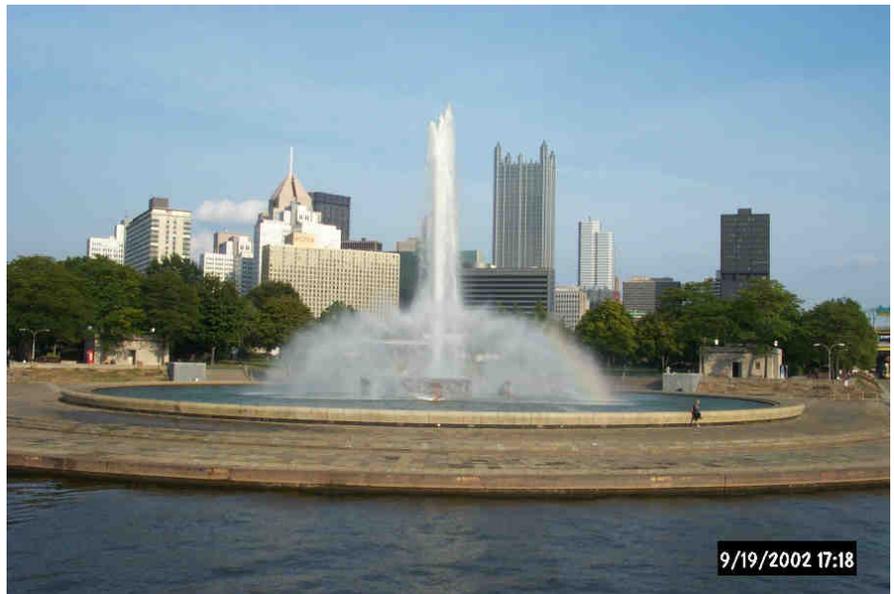
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Thanks to The William & Frances Aloe Charitable Foundation, Environmentally Innovative Solutions, LLC, Dominion Peoples, Amerikohl Mining, Inc., Quality Aggregates Inc., Bio-Most, Inc., Allegheny Mineral Corporation and PA DEP for their support. For more information contact: Slippery Rock Watershed Coalition, c/o Stream Restoration Incorporated (PA non-profit), 3016 Unionville Road, Cranberry Twp., PA 16066, (724)776-0161, fax (724)776-0166, sri@streamrestorationinc.org, www.srwc.org. Aug. Distribution: 1057 copies

Highlighting Other Partnership Efforts (HOPE!)

Second Annual Riverboat Cruise

Come celebrate the Ohio River Watershed! Join us for the **2nd Annual Riverboat Cruise** on Wednesday, September 17th! This year's theme is "Touch the Water" and will focus on exploring the Allegheny River. Last year's event was very successful and brought together students, watershed groups, professionals, and state and local government—there were almost 300 individuals on the cruise! All who attended benefited from discussion and networking in the fun and informative environment. Guests aboard this year's cruise will learn from the educational speakers' holistic approach to teaching about the rivers: how they are used, how they have changed over the years, how they have improved, river history, and aspects about the valuable fishery. This is a broad-based public-private effort with numerous partners. There is room, however, for everyone! We would love to have more people get involved and be a partner in this event! If you would like to help, we are looking for people to: provide historical information or an informative flyer; participate in the planning of the event; donate door prizes or give other financial support.



View of The Point from the Gateway Clipper Partyliner during the 1st Annual Riverboat Cruise last September

SAVE THE DATE!!!! On **Wednesday, September 17** we will sail on the Partyliner from 1:00 pm to 4:00 pm. Boarding begins at 12:30 from the Gateway Clipper Dock at Station Square. This year, we are using an online registration. **To register, visit www.streamrestorationinc.org/rsvp.** For additional information, or to partner with us in this effort in any aspect, please contact **Melissa Busler at (724) 776-0161** or email sri@streamrestorationinc.org. We hope you will join us for good company, good food, and good prizes!