Acid Mine Drainage (AMD) & ART: Engaging the Sciences and the Arts in Community Revitalization

T. Allan Comp, Ph.D.

www.amdandart.info      www.tallancomp.info

Appalachian Coal Country Team

www.coalcountryteam.org

Western Hardrock Watershed Team

www.hardrockteam.org
VINTONDALE
PENNSYLVANIA
Acid Mine Drainage Treatment System

Vertical Flow Pond
In this pond, oxygen is removed from the water by decaying organic material. The water then seeps through a thick bed of limestone that neutralizes the acidity. The vertical flow process prevents the iron from coating the limestone, making the AMD treatment system more efficient.
Nádej (Slovak)
Gobaith (Welsh)
Howp (Scots)

Hope (English)
die Hoffnung (German)
Speranza (Italian)

VINTONDALE: STREETCUT

VINTONDALE MINERS STRIKE AGAINST 1917 WAGE SCALE

Howp (Scots)

VINTONDALE MUN PARADE WINNERS

New Year was successfully welcomed at residential Carl Thomas, winner of the 100-1000th dance. The 12th Annual New Year's Eve dance was well attended.

The nearest Gia Journal

03-20-1934

The nearest Gia Journal

09-08-1934

Johnstown Weekly Democrat

01-06-1987
University of Virginia, College at Wise

WISE WETLANDS PROJECT
The Crowley Creek Collaboration
North Fork River Improvement Association, Paonia, Colorado

PAONIA RIVER PROJECT
PAONIA RIVER PARK EXPLORATION AND REFLECTIONS

THE RIVER PARK IS A MEANS TO CONNECT THE RIVER TO THE COMMUNITY AND TO ENCOURAGE THE COMMUNITY TO EXPLORE THE RIVER

OVER-ARCHING REFLECTIONS AND COMMUNITY NEEDS

- Promotion of the river as a valued place
- Exploration of how people have changed the land to make the river work; how people have changed the river to make the land work
- Acknowledgment of the seasonality of the river and the many different park users
- The site should remain an informal place, where people are encouraged to explore and make reflections on the site.
- Explore larger opportunities created by the presence of historic buildings, the river, and schools

EDUCATIONAL NEEDS AND OPPORTUNITIES

- Explore opportunities to exchange resources and place-based education with other schools
- Explore community partnerships between schools, Paonia Public Schools and Vision, the Historical Society, NFRIA, and other community resources
- Need for more hands-on, outdoor science education facilities
- Need for more connection to local history and extension of the North Fork Historical Society buildings for outdoor classroom

SITE CONDITIONS AND FLOODPLAIN MORPHOLOGY

- **River Zone:** Water/River dominated, Subject to flooding and seasonal changes, Shifting debris and migratory patterns, Natural and unstructured
  - Explore through playing with natural things, Temporary installations, Blend of nature and introduced objects, Boulders, bones, stones, and dirt
- **Upper-Stable Zone**
  - Access and safety
  - Utility and Functional
  - Circulation
  - Architectural and partially structured
  - Park entrance, Community installations, Gathering and parking area, Connection trail and small foot paths to the river

RULE #1

LET THE RIVER BE A RIVER
(LTRBAR)

COMP’S LAW

The more complicated the organizational chart, the more likely the project is to succeed

FULL ACCESS FOR ALL

American Disabilities Act Compliance
Reclaiming place: Connecting the North Fork River to the North Fork Valley Community

Building a multidisciplinary partnership to link the local and regional history and art with the environment.

A model for other communities in the western states who struggle with achieving public access to natural resources, community collaboration, and multidisciplinary education and land development.

An industrial landscape evolving into a naturalized park landscape and river access through collaboration among stakeholders and the strength of the North Fork River.
**Details:**

- **Overall Length** to be 7.8 ft.
- **Bike slots** to be 6” opening.
- **Room to fit 6 bikes on either side.**
- Bikes will stay upright by front tire catching on both sides of opening. Lower rail connecting the ribs will help also.
- Semi-permanent attachment via bolts inside fish skull connecting to a plate and post set in ground.
- **Finish to be rusty steel.**

**Project:** Fish Bike Rack

For: NFRIA / Paonia River Park

By: Ryan Sylvester c/o Thistle Metal, LLC.

**Date:** 10.09.10
#6 Washery damaged by tornado, 1920.
Courtesy of Robert Cresswell.

#6 Powerhouse damaged by tornado, 1919 or 1920.
Courtesy of Huth Family Collection.

Courtesy of Dorothy (Stutzman) Stephens.
Lessons Learned

• Combine Science and the Arts to transform environmental liabilities into community assets, creating vital public spaces valued by local residents and visitors alike.

• Engage partnerships to spur community involvement. Complicate the organizational chart!

• Find project support in unexpected places.

• allan@tallancomp.com
Acid Mine Drainage (AMD) & ART: Engaging the Sciences and the Arts in Community Revitalization

T. Allan Comp, Ph.D.

www.amdandart.info www.tallancomp.info

Appalachian Coal Country Team

www.coalcountryteam.org

Western Hardrock Watershed Team

www.hardrockteam.org