

**Mid-Atlantic Stream Restoration Conference  
November 15, 16 & 17, 2011  
Rocky Gap Resort, Flinstone, MD  
Agenda**

\*Subject to Change

**November 14, 2011**

5:30 PM Registration begins, exhibitors & posters can start set up

**November 15, 2011**

7:30 AM Registration, Exhibits, and Poster Set-up (open all day)

8:30 AM Pre-conference Workshops

1. The Stream Functions Pyramid: A Conceptual Model for Setting Goals and Evaluating the Functional Improvement of Stream Restoration Projects
2. Introduction to Stream Project: Decision Analysis and Design Guidance for Stream Restoration
3. Regenerative Design: Regenerative Stormwater Conveyance, Sand Seepage Wetlands, and Base-flow Channel Design

12:00 PM Lunch on Your Own

1:30 PM Opening Plenary Session – Stream Corridor Functions and Processes  
Welcome – Tom Busiahn, Fisheries and Habitat Conservations, USFWS  
Keynote – Ellen Wohl, PhD, Colorado State University. Disconnected Rivers

Will Harman, Stream Mechanics – Stream Functions Pyramid  
Craig J. Fischenich, CEERUS Army Engineer Developmental and Research Center  
Environmental Laboratory– Engineering and Geomorphology Functions and Processes  
Michael Barbour, Tetra Tech – The Relationship of Biological Monitoring to Ecological  
Restoration and Ecological Recovery  
Open Discussion

5:00 PM Adjourn

6:00 PM Social & Exhibitor Session  
Hors d'oeuvres, carving stations and cash bar

**November 16, 2011**

7:00 AM Registration/Info desk opens & Continental Breakfast

Breakout Group 1

8:30 AM **Session A Innovative Restoration Design Tools, Methods, Adaptions**

8:40 AM Beargrass Creek Revisited– A Perspective on the Evolution of Stream Restoration  
over the Past 15 Years  
George Athanasakes, Stantec

9:00 AM Environmental Visualization and 3D Modeling to Support Stream and Watershed  
Restoration in the Appalachians.  
Charles Yuill, West Virginia University Landscape Architecture Program

9:20 AM 2D Modeling Sounds Impressive, But is it Useful?

Bruce Cole, San Antonio River Authority

- 9:40 AM Applying Principles for the Ecological Restoration of Aquatic Resources to Legacy Sediment Problems in Pennsylvania  
Jeffery Hartranft, PA DEP
- 10:00 AM Break
- 10:25 AM Watt's Branch Stream Restoration  
Mark Secrist, U.S. Fish & Wildlife Service
- 10:45 AM Lone Oak Stream Mitigation Bank: Instream Structure Innovations, Construction, Challenges and Field Fits  
Dan Sweet, Wildlands Engineering Inc.
- 11:05 AM Does Stream Restoration Really Create Habitat? - Quantifying Instream Habitat Using Two-dimensional Hydrodynamic Analysis  
Gerald Bright, Philadelphia Water Department, Office of Watersheds
- 11:25 AM Use of a Rapid Visual Assessment to Monitor In-Stream Structure Success  
Karen Jennings, Coastal Resources, Inc.
- 11:45 AM Discussion & Q/A
- 12:00 PM - 1:15 PM  
Lunch Provided - Speaker Dave Rosgen, Wildland Hydrology  
A Perplexing Challenge Amongst Mixed Messages
- 1:30 PM Evolution of the Constructed Riffle  
Shawn Wilkerson, Wildlands Engineering, Inc.
- 1:50 PM Adaptive Management in an Urban Stream Restoration: A Case Study  
Kathleen Anderson, U.S. Army Corps of Engineers, Pittsburgh District
- 2:10 PM Retrospective Evaluation of Aquatic Ecosystem Restoration Projects Completed By The US Army Corps Of Engineers  
Erynn Maynard, US Army Engineer Research & Development Center, Environmental Laboratory
- 2:30 PM Discussion Innovative Design
- 2:50 PM Break
- 3:10 PM **Session E Communities and Stream Restoration**
- 3:30 PM The use of low head weirs to reconnect floodplains in severely entrenched perennial streams: An Anne Arundel County TMDL Watershed Implementation Plan Strategy.  
Hala Flores, Department of Public Works Anne Arundel County Government, MD
- 3:50 PM North Fork Roanoke River voluntary watershed restoration in Virginia through grant funded public-private partnerships.  
Justin Laughlin, VA Department of Game & Inland Fisheries

- 4:10 PM Jackson Creek Mitigation Bank  
Daniel Johnson, Tidewater Environmental Services Inc.
- 4:30 PM Stream Restoration: Linking Environmental Benefits to Economic Benefits and Valuing Environmental Benefits  
Danielle Schwarzmann, University of Maryland, Baltimore County
- 4:50 PM Discussion - Communities
- 5:10 PM Adjourn
- Breakout Group 2
- 8:30 AM **Session B Monitoring**
- 8:40 AM Mechumps Creek Corridor Restoration Project, Ashland, Virginia  
Josh Running, Williamsburg Environmental Group, Inc.
- 9:00 AM Stream and Wetland Restoration at Rendezvous Mountain Educational State Forest  
Greg Jennings, North Carolina State University
- 9:20 AM Application of the Watershed Assessment of River Stability and Sediment Supply (WARSSS) to the design of a Salmonid Habitat Improvement and Passage Project.  
Mike Adams, Stantec Consulting, Inc.
- 9:40 AM Built to Last? An Evaluation of Aging In-stream Structures.  
Scott Hunt, Michael Baker Engineering, Inc.
- 10:00 AM Break
- 10:25 AM An interactive spatial database of compensatory stream mitigation projects in the southern West Virginia coalfields  
Catherine Artis, West Virginia University
- 10:45 AM Can the BANCS model parameters be use to predict streambank erosion at an actively eroding and restored stream reach of Horseshoe Run: Tucker County, WV  
Abby McQueen, Canaan Valley Institute
- 11:05 AM The effects of stream restoration on streambank migration, water quality, and macroinvertebrate communities in the Cacapon River, West Virginia  
Jonathan Pitchford
- 11:25 AM Ecological Benefits of Compensatory Stream Mitigation in Southern West Virginia Watersheds  
Eric Miller, West Virginia University
- 11:45 AM Discussion, Q&A
- 12:00 PM - 1:15 PM  
Lunch Provided - Speaker Dave Rosgen, Wildland Hydrology  
A Perplexing Challenge Amongst Mixed Messages

- 1:30 PM Our Best Chance to Show Restoration Success: Comprehensive Monitoring in Red Hill Branch Subwatershed, Howard County, Maryland  
Mike Pieper, KCI Technologies, Inc.
- 1:50 PM 10 year Monitoring Study of Habitat, Fish and Macroinvertebrate Response to a Natural Channel Design Stream Restoration Project in North Central PA  
Melvin Zimmerman, Lycoming College
- 2:10 PM Geomorphic Monitoring of the Patapsco River Following the Removal of the Simkins Dam, Patapsco River, Maryland  
Graham Boardman, McCormick Taylor Inc
- 2:30 PM Rapid Stream Restoration Monitoring Protocol  
Sandra Davis, U.S. Fish and Wildlife Service
- 2:50 PM Discussion - Monitoring
- 3:10 PM Break
- 3:30 PM **Session F Stream Impacts Session**
- 3:50 PM Transportation Mitigation  
Nathan Ober, Stantec
- 4:10 PM Impacts of Coal Mining to Receiving Streams and Associated Remediation, Reclamation and Mitigation  
Joshua B. Gilman, Stantec Consulting, Inc.,
- 4:30 PM Discussion Stream Impacts
- 5:00 PM Adjourn

Breakout Group 3

- 8:30 AM **Session C Headwater Streams**
- 8:40 AM The Road to Brook Trout Recovery  
Kenneth Anderson, II, PA Fish & Boat Commission Pennsylvania Fish & Boat Commission
- 9:00 AM How Much is Enough? Flow Duration as a Parameter for Determining Mitigation Success in Headwater Stream Systems.  
Kevin Tweedy, Michael Baker Engineering, Inc.
- 9:20 AM Unassessed Water Program in Pennsylvania  
Melvin Zimmerman, Lycoming College
- 9:40 AM Headwater Stream Restoration  
Thomas Grapensperger, Dewberry
- 10:00 AM Break
- 10:25 AM Discussion Headwater Streams

10:45 AM      **Session G Watershed Scale Planning and Restoration**

10:55 AM      Retrofitting Urban Stormwater Infrastructure for Treatment and Ecological Enhancement  
in Philadelphia, PA  
Rick Howley, PWD-Office of Watersheds

11:15 AM      Cumulative-Effects assessment and implementation of multi-stressor mitigation  
approaches in an intensively mined central Appalachian watershed.  
Eric Merriam, West Virginia University

11:35 AM      Beyond Channel Protection Volume (CPv): Moving From Stormwater Management to  
Integrated Restoration  
Erik Michelsen, South River Federation

12:00 PM - 1:15 PM

Lunch Provided - Speaker Dave Rosgen, Wildland Hydrology  
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1:30 PM      Watershed Approach to Restoring Streams and Wetlands in the Urban Upper Sandy Creek  
Watershed  
Joshua White, Michael Baker Engineering

1:50 PM      Assessing Watershed Scale Responses to BMP Implementation in Urban Watersheds  
John Jastram, USGS Virginia Water Science Center

2:10 PM      The City of Austin - Stream Restoration Program  
Morgan Byars, City of Austin Watershed Protection

2:30 PM      Assessing Surface Runoff as a Tool for Evaluating Watersheds and Stream Restoration  
Pamela Dodds, PhD

2:50 PM      The Application of WARSSS for a Watershed-Based Master Plan for Stream Restoration:  
The Trail Creek Watershed  
Dave Rosgen, Wildland Hydrology

3:10 PM      Discussion Watershed Scale Planning and Restoration

3:30 PM      Adjourn

Breakout Group 4

8:30 AM      **Session D Aquatic Species Habitat Restoration**

8:40 AM      Guadalupe Bass Restoration Initiative  
Gary Garrett, Ph.D, Texas Parks & Wildlife Dept.

9:00 AM      Wild Trout Habitat Enhancement Project Beaver Creek, MD  
Doug Hutzell, Environmental Services, Inc.

9:20 AM      Riparian Ecological Community Assessment of a Restored Reach of the Cacapon River,  
West Virginia  
Kathryn McCoard, West Virginia University Division of Forestry & Natural Resources

9:40 AM      Comparing the Fish and Benthic Macroinvertebrate Diversity of Restored Urban

Streams to Reference Streams  
Scott Stranko, Maryland DNR

10:00 AM Break

10:30 AM Achieving Stream Restoration Success—A TU Perspective  
Warren Colyer

10:50 AM Discussion Aquatic Species

11:10 AM **Session H Functional Stream Assessment & Restoration**

11:30 AM Creative Design: The Handmaiden of Restoring Hydrologic Connectivity and Ecological Function  
Ellen McClure, Biohabitats

12:00 PM - 1:15 PM

Lunch Provided - Speaker Dave Rosgen, Wildland Hydrology  
A Perplexing Challenge Amongst Mixed Messages

1:30 PM Stream Channel Succession and Sediment Yield : Black Vermillion River, KS  
Tim Keane, Kansas State University

1:50 PM Stream Restoration Design and Environmental Benefit  
Joe Berg, Biohabitats

2:10 PM Spring Branch, Baltimore County, Maryland: A Bright Spot in Urban Stream Restoration  
Mike Trumbauer, Biohabitats

2:30 PM Assessing the Hydrologic and Hydraulic Processes and Connectivity in Altered Riverine Systems  
Ward Oberholtzer, Landstudies & Century Engineering

2:50 PM Functional measures of biotic recovery in an acid mine impacted stream remediated by alkaline addition: a five year study  
Kelly Johnson, Ohio University

3:10 PM Discussion

3:30 PM Adjourn

### **November 17, 2011**

7:00 AM Registration/Info desk opens  
Continental Breakfast

8:30 AM Panel Discussion - The Future of Stream Restoration  
Featuring representatives of state and federal and State agencies

The objective of the panel discussion is to have Federal and State agencies provide a brief presentation regarding their agency's/organization's involvement in stream related activities. Panelists will discuss:

- Agency role/objectives in stream restoration/dam removal
- Programs within the agency that relate to streams

- Current stream activities (e.g., assessment, restoration, research, etc.)
- Future stream needs and opportunities
- Partnering efforts with other agencies and organizations
- Agency funding availability

Panelists:

Kerry Robinson, NRCS  
Tamara McCandles, USFW  
Palmer Hough, EPA  
Craig J. Fischenich, Army COE  
George Kelly, Environmental Banc & Exchange  
Justin Laughlin, VA Game & Inland Fisheries  
Tim Schaeffer  
Sandy Hertz  
Danny Bennett, WV DNR

12:00 PM      Conference Adjourns