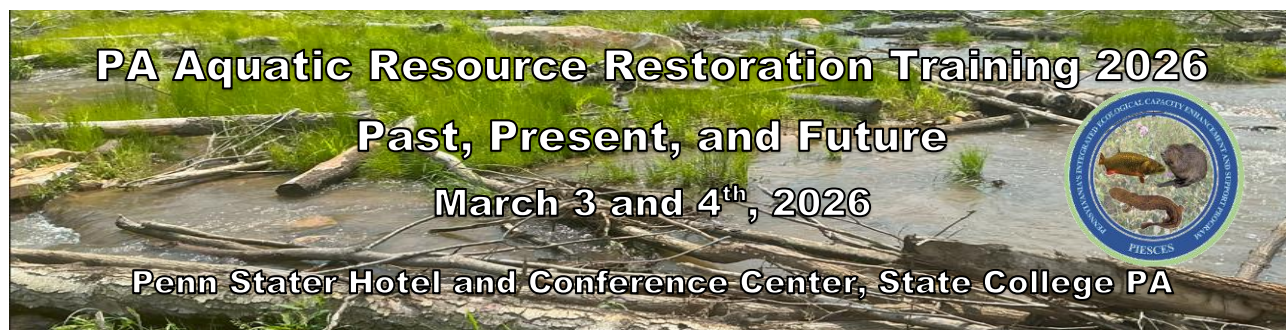


### Day 1 March 3<sup>rd</sup> Agenda

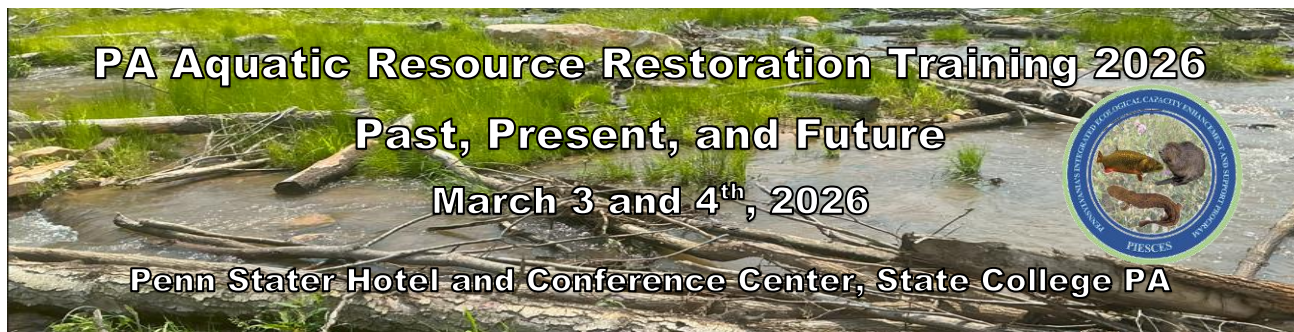
8:00	<b>Registration Opens</b>
9:00 - 9:05	<b>Welcome and Purpose</b>
9:05 - 10:00	<b>Keynote Speakers: Dorothy Merritts</b> , Franklin and Marshall College and <b>Ellen Wohl</b> , Colorado State University
10:00 - 10:15	<b>Break</b>
10:15 - 11:30	<b>Technical Session 1: Understanding the Past</b> <ol style="list-style-type: none"> <li><b>Landscape Memory – (Past Episodes)</b> – Ben Hayes, Bucknell Univ. (35 min)</li> <li><b>Historic Unaltered/Natural Conditions and Processes</b> – Robert Walter, Franklin and Marshall College (35 min)</li> <li><b>Relevance of Past Conditions: Retentive Condition and Hydrodynamic Drivers</b> – Chris Williams, Franklin and Marshall College (20 min)</li> </ol>
11:30 - 12:30	<b>Lunch</b>
12:30 - 2:00	<b>Technical Session 2: Characterizing the Colonial and Modern Past</b> <ol style="list-style-type: none"> <li><b>Historic Watershed Alterations (Regional Patterns)</b> – Ben Hayes, Bucknell Univ. (35 min)</li> <li><b>Stratigraphic Investigation Techniques</b> – Justin Spangler, LandStudies and Robert Walter, Franklin and Marshall College (35 min)</li> <li><b>Tools for Locating Historic Changes – TWI, Geomorphon, Breached Dam Data</b> – Dave Goerman, DEP DWET (20 min)</li> </ol>
2:00 - 2:15	<b>Break</b>
2:15 - 3:45	<b>Technical Session 3: Design Considerations</b> <ol style="list-style-type: none"> <li><b>Evidence-Based Approach</b> – Dave Goerman, DEP (10 min)</li> <li><b>Principal and Key Restoration Design Considerations</b> – Art Parola, Wetland Studies and Solutions, Inc., Drew Altland, Straughan Environmental, Inc., and Ward Oberholtzer, LandStudies (80 min)</li> </ol>
3:45 – 4:30	<b>Panel A Session: Restoration Frame of Reference - Systems Approach</b> Panelists: Ellen Wohl, Dorothy Merritts, Jeff Hartranft, Art Parola, Drew Altland



### Day 2 March 4<sup>th</sup> Agenda

8:00	<b>Registration Opens</b>	
9:00 - 9:15	<b>General Session</b> <b>CWA Update and Future of Watershed Restoration Permitting – Dave Goerman, DEP</b>	
9:15 - 10:15	<b>Breakout Session A</b>	
	<b>Design and Evaluation Tools</b> 1. <b>Reliability of Two-Dimensional Hydrodynamic Models in Stream Restoration</b> – Jesse Robinson, Wetland Studies and Solutions, Inc. (30 min) 2. <b>USACE Stream Design Evaluation Tool</b> – Matt Gilbert, Pittsburgh District USACE (30 min)	<b>Ecological Considerations</b> 3. <b>Key Design Considerations for Ecological Benefits</b> – Jeff Hartranft, DEP DWET (40 min) 4. <b>Use of Restoration Community Predictor Tool</b> – Ephraim Zimmerman, Western PA Conservancy (20 min)
	<b>Comparing Project Costs</b> 5. <b>NSCD and Floodplain Reconnection Cost Comp</b> – Michael Sachs, RES (20 min) 6. <b>NSCD Cost Comparisons, Christy Mower</b> , Civil & Environmental Consultants (20 min) 7. <b>BMP Cost Effectiveness</b> – Jake Lamb, Franklin and Marshall College (20 min)	
10:15 - 10:30	<b>Break</b>	
10:30 – 12:00	<b>Breakout Session B</b>	
	<b>Monitoring and Research</b> 1. <b>Big Spring Run Continuing Research and Other Regional Findings</b> – Julia Carr, Shuyu Chang, and Joe Galella, Franklin and Marshall College (45 min) 2. <b>Robinson Fork Longterm Monitoring</b> – Speakers TBA, Ohio University (45 min)	<b>Performance Measures, Outcomes and Long-Term Maintenance</b> 3. <b>Beyond the Channel – Dynamic Alluvial Valley Performance Standards</b> – Sam Leberg, Ecosystem Planning and Restoration (30 min) 4. <b>Observed Project Outcomes – Monitoring Large Scale Projects and Results</b> – Shawyn Yeamans, RES (30 min) 5. <b>Vegetation Management in Restored Floodplain/Wetland Complexes</b> – Nick Myers, LandStudies (30 min)
	<b>Project Organization</b> 6. <b>Coordinating a Large-Scale Project's Community Engagement and Funding - Little Conestoga Creek Blue Green Connector Experience</b> – TBA, The Little Conestoga Creek Foundation (45 min) 7. <b>Building Monitoring Partnerships and Communicating Outcomes the Conewago Experience</b> – Invited Monique Dykman, Lancaster Clean Water Partners (45 min)	





12:00 - 1:00	Lunch
<b>Day 2 March 4<sup>th</sup> Agenda Cont.</b>	
1:00 - 2:30	<b>Technical Session 4: Demonstration Case Studies</b> <ol style="list-style-type: none"> <li>1. <b>Little Arnot Large Wood Reintroduction</b> – Ben Hayes, Bucknell University (30 min)</li> <li>2. <b>Good Spring (aka Devil's Hole)</b> – Dave Goerman, DEP (30 min)</li> <li>3. <b>Comprehensive Legacy Sediment Removal and Multi-Benefit Outcomes</b> – Andrew Donaldson, Johnson, Mirmiran, &amp; Thompson, Inc. and Ben Ehrhart, LandStudies (30 min)</li> </ol>
2:30 - 2:45	Break
2:45 – 3:45	<b>Technical Session 5: Watershed Scale Project Case Studies</b> <ol style="list-style-type: none"> <li>1. <b>Robinson Fork Mitigation Bank</b> – Dave Goerman, DEP, Art Parola, Wetland Studies and Solutions, Inc. and Ward Oberholtzer, LandStudies (40 min)</li> <li>2. <b>Cocalico Creek Watershed</b> – Invited, Su Fanok, PADE The Nature Conservancy and TBA (20 min)</li> </ol>
345-415	<b>Panel B Session: Future of Restoration Project Planning, Development, Implementation and Watershed Restoration Permitting</b> Panelists: Dave Goerman, DEP; Jack Hill, DCNR; TBD; TBD; TBD