

Storm-Water Wetlands Design Workshop

Sweet Briar College
Florence Elston Inn & Conference Center

February 18, 2010.

Agenda

9:00 am: *Welcome* by: Mike Hayslett (Sweet Briar College) and Michael Russell (Robert E. Lee Soil & Water Conservation District)

9:10 am: *Lessons learned - Storm water, Water Quality, and BMP Implementation in the James River Basin* by: Chris French (Alliance for the Chesapeake Bay)

9:50 am: *Update-Virginia's storm water management regulations* by: Lee Hill (Department of Conservation & Recreation)

10:30 am: Break

10:40 am: *Natural Wetland and Stream Design for Treating Storm water* by: Tom Biebighauser (Center for Wetlands and Stream Restoration)

11:30 am: *Panel Discussion* with Lee Hill (DCR), Chris French (ACB), Tom Biebighauser (CWSR) and John McClain (VDOT) moderated by Michael Russell (Robert E. Lee SWCD)

12:00: Lunch

12:45: Travel to field

1:00 pm: *Practical Identification and Design of Storm-water Wetlands*. Participants will become involved in the testing and design of wetlands for treating storm-water at Sweet Briar College. Field activities lead by Tom Biebighauser will involve:

- 1) Soil texture and wetland construction techniques
- 2) Using hand tools to determine soil texture and the presence of groundwater
- 3) Using heavy equipment to dig test holes
- 4) Measuring slope and its effects on wetland design and construction

4:00 p.m. Examination of a vernal pond (ephemeral wetland) established on campus for amphibians and reptiles, built in 2009 using a liner by Mike Hayslett (SBC) and Tom Biebighauser (USFS)

4:30: Adjourn



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Primary Instructor:

Tom Biebighauser has restored over 1,200 wetlands in 14-States and 2-Canadian Provinces. He teaches practical, hands-on wetland restoration workshops across North America where participants learn about wetland restoration and drainage by becoming involved in the design and construction of naturally appearing and functioning wetlands in only one day. Tom has developed highly successful and inexpensive techniques for restoring and repairing wetlands on mined lands, steep slopes, mountain ridges, large valleys, timber sale areas, and at schools. He's written 3-books about restoring wetlands *A Guide to Creating Vernal Ponds* in 2003, *Wetland Drainage, Restoration, and Repair* in 2007, and *Wetland Restoration and Construction Guide* (in press).

Presenters:

Carlton Lee Hill is a native of Norfolk, Virginia. He graduated from Virginia Tech with BS and MS degrees in Agricultural Engineering. He started work with the Department of Conservation and Recreation on April 1, 1977. He now serves as the Assistant Director Storm water Management Programs in the Division of Soil & Water Conservation. Areas of responsibility: erosion & sediment control and storm water management programs; shoreline and stream bank restoration and protection programs; advisor to the Board on Conservation and Recreation regarding public beach issues; and represents DCR on riparian restoration, wetlands and dredging issues.

John McClain graduated from Madison College (James Madison University) with BS in Biology and Secondary Education. He works for VDOT (Lynchburg District) and has been an Environmental Manager with 25 years of VDOT service. He has designed and constructed over 3 miles of stream restoration projects.

Please register by February 11, 2010.

Contact Garret Jones at: (434) 381-5932/garretjones@vaswcd.org OR

Anne Marie Clarke at: (434) 851-7043/anne.clarke@vaswcd.org

Directions:

Sweet Briar College is located directly off of Route 29 near Amherst, VA.

http://www.about.sbc.edu/campus_map.html