

NC STATE UNIVERSITY
College of Natural Resources
Forestry Educational Outreach Program
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Forest Roads



May 10, 2005 - Durham County
May 18, 2005 - Henderson County

Sponsored by
Forestry Educational Outreach Program
NC State University Department of Forestry and
Environmental Resources
NC Cooperative Extension Forestry
North Carolina Forestry Association
Southern Forestry Foundation

About the Workshops

Access roads are a part of almost every timber harvesting operation. These roads have the potential to be a source of environmental problems, particularly when they cross streams or streamside management zones (SMZs). Best Management Practices (BMP) compliance checks and research studies have found that forest roads can be a major contributor to sedimentation and reduced water quality when installed improperly.

The Low Volume Roads Manual on road construction and maintenance by Keller and Sherar will be emphasized throughout the course. **Participants will receive a copy of this comprehensive manual with their registration.** Key sections of the BMP guidelines on water quality, stream crossings and streamside management zones will also be covered.

Participants will learn about forest roads to:

- improve the manageability of the harvesting tract.
- comply with BMPs and environmental regulations.
- minimize construction and maintenance costs.
- increase efficiency and productivity of the operation.
- improve the appearance of the operation.
- protect environmental and cultural values.

Who Should Attend?

This course is designed for foresters, timber buyers, loggers and others with road construction responsibilities. It is a practical, hands-on course with numerous classroom and field exercises designed to improve the skills used in timber access road planning, design and location.

About the Instructor

The course will be instructed by Jim Sherar, Forest Engineering Consultant, Asheville, NC and Adjunct Professor of Forestry at Clemson University. Mr. Sherar has worked extensively with a variety of logging systems in the Southeast, the Northwest, and Central America. He worked in the area of forest roads and timber harvesting for the Forest Service for over 30 years.

Registration and Fees

The registration fee is \$145 for each workshop. This includes course handouts, **a copy of the Low Volume Roads Manual**, refreshments, lunch, and field trip transportation. Registration deadline is May 2nd. Space in both workshops is limited. We will create a waiting list if necessary. On-line registration is available at www.ncsu.edu/feop. Lodging is not included. Cancellations made by May 2nd will receive a refund less a \$20 service charge.

Workshop Locations

The workshop on May 10 will be held at the Hill Forest in Bahama, NC (Durham County). The May 18 workshop will take place at the Mountain Horticultural Center in Fletcher, NC (Henderson County). A map indicating the exact location of the workshop will be included with your registration confirmation letter.

Continuing Education Credits

Each workshop has been approved for 6.0 Category 1 Continuing Forestry Education (CFE) credits by the Society of American Foresters and 7.0 hours of Pro Logger Continuing Education Credits.

Upcoming Workshops

- April 13: Working with the Media (Teleconference)
- April 20, 21: Conservation-Based Development (Salisbury, NC and Asheville, NC)
- April 28: Reptile and Amphibian Ecology and Conservation (Askin, NC)
- May 4: Ecology and Management of Migratory and Resident Birds (Bahama, NC)
- May 11: Forest Productivity (Teleconference)
- June 8: Woodland Security (Teleconference)

Visit www.ncsu.edu/feop to register!

For more information on the Forestry Educational Outreach Program visit the FEOP home page at www.ncsu.edu/feop or contact Becky Townsend at 919-515-9563 (phone), 919-515-6883 (fax), or becky_townsend@ncsu.edu

Forest Roads

Tuesday, May 10, 2005 - Bahama, NC
Wednesday, May 18, 2005 - Fletcher, NC

AGENDA

- 8:00 Registration
- 8:30 Introduction
- Purpose and Goals
 - Best Management Practices related to roads
 - Low Volume Roads Manual
- 9:00 Road and Harvest Planning
- Road Access
 - Skidding pattern
 - Water quality considerations
 - Deck location
 - Cost estimation
- 10:00 Break
- 10:15 Road Design, Construction and Cost
- Road Costs
 - Typical road sections
 - Log Trucks
 - Surface Drainage
 - Grades/Curves
- 11:15 Stream and Wet Site Crossings
- Best Management Practices
 - Stream crossing options – advantages and disadvantages
 - Drainage design
- 12:15 Lunch (provided)
- 1:00 Road Location Techniques (field exercises)
- Basic measurements and use of measuring tools
 - Grade lines and compass lines
 - Measuring and laying out curves
 - Evaluation of stream crossing sites
 - Road location exercise
- 4:00 Summary (indoors)
- Review and discussion of concepts demonstrated in the field exercises
- 4:30 Adjourn

*Note: The workshops will take place, rain or shine.
Please dress accordingly.*

Registration Form

Forest Roads - May 10 and 18, 2005
Registration Deadline is May 2nd, 2005

Name _____
Organization _____
Address _____
City _____ State _____ Zip _____
Daytime Phone _____
Fax _____
E-Mail _____
Vegetarian Meal Required? _____
Physical Requirements? _____

I wish to attend: ___ May 10 - Durham County: \$145
___ May 18 - Henderson County: \$145

Method of Payment

Registration Fee: \$145 each workshop

___ Check (*make payable to NC State University*)

___ Credit Card (*MasterCard or Visa ONLY*)

Card #: _____ - _____ - _____ - _____

Expiration Date: _____

Name of Cardholder: _____

Address of Cardholder: _____

I agree to allow NC State University to charge this credit card for the workshop registration.

Cardholder Signature: _____

Send payment to FEOP, NC State University, Campus Box 8003, Raleigh, NC 27695; or FAX: 919-515-6883

FOR OFFICE USE
date rec'd _____ amt. _____ ck# _____
V/MC chgd _____ conf. sent _____ dep. date _____