

About the Instructors

James B. McCarter, Ph.D. is Research Scientist at University of Washington, and Ph.D. silviculturist working for the forestry departments at NC State University and Yale University. He has been training forestry professionals and private landowners for over ten years. **Rick Hamilton** is NC State University Extension Forestry Leader Emeritus, and a forestry consultant with over 30 years experience teaching and practicing silviculture in the southeast.

Field Trip Hosts

Joe Cox is NC State University College Forest Manager at Hill Demonstration Forest. Joe has been overseeing research, teaching, and recreational uses of the forest for 6 years while also managing the College of Natural Resources' other important forest holdings. **Dr. Judd Edeburn** is Duke Forest Resource Manager with 29 years of experience managing the Duke Forest for a variety of timber, recreation, education and ecological services.

Registration Fee Schedule

Pre-registration is required. The registration fee is \$295 and includes course materials, lunches, refreshment breaks, and transportation to the field sites. Registration deadline is March 10, 2008. Enrollment in the short course is limited to the first 30 registrants - early registration is strongly encouraged. NOTE: You will receive your registration confirmation by E-mail or fax - please be sure to enter this information on your registration form. A PDF version of the short course information with registration form will be posted here in the near future. If you would like to order your registration and make payment on-line using Mastercard or Visa, visit the FEOP Registration Store at www.ncsu-feop.org.

Cancellations

Cancellations made before the registration deadline may receive a refund less a \$50 service charge. Refunds will not be given for cancellations after the registration deadline - in this case it is recommended you send a substitute.

Equipment and Supplies

Lecture sessions: Attendees will be provided course notebook with space to make notes. **Field tour/lectures:** Attendees should be bring a clipboard for taking notes outdoors. A camera and sketch pad have been useful during previous sessions of this short course. Instructors will be bring increment bores and D-tape, but participants are welcome to bring their own field measurement instruments. Dress appropriate to the weather with boots, rain gear, and hard hats.

General Agenda

Wednesday, March 19, 2008 - 8:30 a.m. - 5:00 p.m.

- 8:30 a.m. Registration
- 9:00 a.m. Introduction to Plant Interactions
 - Niche
 - Limitations of Growth
 - Concept of Growing Space
- 9:45 a.m. Tree Architecture and Growth
 - General Growth Patterns
 - Shoot Development Patterns
 - Crown Shapes
 - Height Growth
 - Root Growth
 - Crown and Tree Development
- 10:30 a.m. Break
- 10:45 a.m. Stand Development Patterns
 - Open Stands (Stand Initiation)
 - Dense Stands (Stem Exclusion)
- 12 Noon - Lunch (provided)
- 1:00 p.m. Afternoon Field Trip – Hill Forest

Thursday, March 20, 2008 - 9:00 a.m. - 5:00 p.m.

- 9:00 a.m. Disturbances and Stand Development
 - Classification of Disturbance
 - Tree Response to Disturbance
- 10:00 a.m. Quantification of Stand Development
 - Measures of Growth & Yield
- 10:30 a.m. Break
- 10:45 a.m. Understory Stands (Understory Reinitiation)
- 11:00 a.m. Complex Stands (Old Growth)
- 12 Noon - Lunch (provided)
- 1:00 p.m. Afternoon Field Trip – Duke Forest

Registration Form

Forest Stand Dynamics Short Course Registration Deadline: March 10, 2008

On-line using Mastercard or Visa: www.ncsu-feop.org

Name _____

Organization _____

Address _____

City _____ State _____ Zip _____

Daytime Phone _____

Fax _____

E-Mail _____

Types of Continuing Education Credits you collect: _____

Vegetarian lunch preferred? Yes No

----- Registration Fee -----

\$295.00

_____ Check payable to NC State University.

_____ Credit Card (*MasterCard or Visa ONLY*)

Card #: _____ - _____ - _____ - _____

Expiration Date: _____

Name of Cardholder: _____

Verification code on back of card: _____

**NC State University
Forestry and Environmental Outreach Program
Campus Box 8008
Raleigh, NC 27695-8008
Phone: 919-515-9563
Fax: 919-515-6883**

Nonprofit Org.
U.S. Postage
PAID
Raleigh, NC
Permit No. 2353

Forest Stand Dynamics Southeast

A Graduate-Level Forest Management Short Course



March 19-20, 2008

**Camp Slocum at Hill Forest - Bahama, NC
and
Duke Forest - Durham, NC**

Sponsored by

Forestry and Environmental Outreach Program
Department of Forestry and Environmental Resources,
North Carolina State University

www.ncsu.edu/feop/silviculture/stand_dynamics.html

About the Workshop

This is an intensive two-day silviculture short course designed to make attendees more effective in their on the ground management decision making. The short course will examine how forest stands grow, from individual tree architecture and growth, to how stands respond to disturbances and silvicultural manipulations. This information lays the foundation for comprehensive planning of natural or intensively managed stands. Understanding and applying the principals outlined in this short course are critical for forest vigor and management success, whether management is for ecological services, economic gain, forest restoration efforts, recreation, or aesthetics. Field tour/lectures are incorporated into each afternoon of the short course. Academic basis of short course is the text, *Forest Stand Dynamics* (Oliver and Larson, 1996 Updated Edition). Otonal textbook is available through a variety of on-line book sellers.

Who Should Attend

The course is conducted at the graduate level, and is designed to present and synthesize the most up-to-date information available on the subject of applied silviculture in the context of operational forest management. A general requirement for those attending is a Bachelor's degree in forestry or a related discipline, or a Bachelor's degree and practical experience in natural resource management.

Accreditation

This short course will be reviewed for Category 1 Continuing Forestry Education Credits from the Society of American Foresters.

Location, Travel and Lodging

The short course lectures will be held at Camp Slocum classroom at the 2,450-acre Hill Demonstration Forest in Bahama, NC. Duke Forest is located in rural Orange County north of Durham, NC. Daily field trips will be incorporated on the Hill Forest and Duke Forest in Durham, NC, demonstrating the classroom concepts in the field. Van transportation is provided between classrooms and field sites. Lodging for this short course is not included in the registration fee.

Economy hotels located within 30 minutes of Hill Forest:

- Hampton Inn Roxboro, 920 Durham Road, Roxboro, NC 27573
- America's Best Value Inn, 1006 N. Madison Blvd., Roxboro, NC 27573
- Innkeeper Roxboro, 906 Durham Road, Roxboro, NC 27573
- Holiday Inn Express, 2578 West Lyon Station Rd., Creedmoor, NC 27552
- Red Roof Inn, 1816 Hillandale Rd, Durham, NC 27705

NC STATE UNIVERSITY

Forestry and Environmental Outreach Program
Campus Box 8008
Raleigh, NC 27695-8008