

The Warnell Continuing Education Program

Daniel B. Warnell School of Forestry and Natural Resources

Shortleaf Pine Establishment & Management Workshop

Instructors: Dr. David Clabo, Dr. Jim Guldin, Dr. Wayne Clatter-
buck, and Dr. Chris Oswalt

Zoom Webinar Format

August 15-16, 2023



WARNELL
SCHOOL OF FORESTRY AND NATURAL RESOURCES
THE UNIVERSITY OF GEORGIA

Purpose

Shortleaf pine has the largest native range of the four major southern pine species, but it has lagged behind other southern pines in terms of management effort and research. In addition, the area of forests dominated by shortleaf pine has declined by more than 50% in the past 40 years increasing the importance of regional restoration efforts. Increased interest in management and restoration of shortleaf pine began about 10 years ago with the launch of the Shortleaf Pine Initiative by several federal, state, university, and NGO partners. Shortleaf pine has many desirable traits that may be attractive to landowners and managers with certain objectives. Traits such as great longevity; good self-pruning; drought resistance; thick, insulating bark; rot resistance of fire scars; seedling and sapling sprouting capability; greater snow and ice tolerance than other southern pines; and dense wood properties make shortleaf pine an excellent species to manage on a variety of sites. Shortleaf pine management shares some commonalities with other southern pines, but management tailored to shortleaf pine based on decades of research findings and field observations will be covered in this workshop. Anyone interested in learning more about shortleaf pine ecology and management is encouraged to attend.

Participants will learn:

- Presettlement to current history of shortleaf pine throughout its extensive range
- Ecology and silvics of shortleaf pine
- Advantages of shortleaf pine and situations where management is appropriate
- The current status of the shortleaf pine resource
- Natural regeneration possibilities for shortleaf pine
- Prescribed fire to promote and maintain the shortleaf pine resource
- Artificial regeneration including seedling selection, site preparation, and herbicides
- Challenges with shortleaf pine management
- Establishment and management of shortleaf pine-hardwood mixtures

How One Will Benefit

Upon completion of this meeting, a forest landowner or land manager will have a better working knowledge of shortleaf pine and can make improved management decisions on owned or managed property.

Who Should Attend?

Foresters, land managers, forest landowners, wildlife biologists, and those interested in improving the shortleaf pine resource

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Instructors

Dr. David Clabo has been Assistant Professor of Silviculture Outreach with the University of Georgia (UGA) Warnell School of Forestry & Natural Resources since December 2018. He is based at UGA's Coastal Plain Experiment Station in Tifton, Georgia. David's appointment with UGA consists of research and outreach. His research interests include: establishment and management of pine-hardwood forest types, forestry herbicide evaluations, forest growth and yield, longleaf pine establishment and management, and genetic trials of southern pine seedlings. David's outreach focuses on relaying current scientific information to landowners, practitioners, and natural resource extension agents on a wide variety of forest management and silviculture topics. Other outreach activities include delivery of continuing education programs and outreach publications for landowners and professionals.

Dr. Jim Guldin is a retired research forest ecologist, and lives in Springfield Missouri. He served on the faculty of the School of Forest Resources at the University of Arkansas at Monticello from 1982-1992, and then spent 28 years as a research scientist, Project Leader, and Center Director with the Southern Research Station of the USDA Forest Service, working from a duty station in Hot Springs, Arkansas. During his career, Guldin developed a reputation as the Forest Service R&D expert on the silviculture of southern pines, especially naturally-regenerated southern pine stands managed using even-aged and uneven-aged methods. He's published more than 170 research papers, and has given more than 200 presentations including 20 invited keynote presentations for regional, national, and international conferences. He's also led more than 250 "boots on the ground" field tours in the woods for student groups, landowners, land managers, private companies, conservation groups, resource managers, and policy makers with the USDA Forest Service. Since his retirement from Federal service at the end of 2020, Guldin volunteers as a member of the Board of Directors of the L-A-D Foundation, which operates the 146,000-ac Pioneer Forest as a conservation-based working forest. He's also been brought back to the Forest Service under the USDA National Experienced Worker (NEW) Solutions program as a part-time silviculture expert in continuing education for agency personnel. Guldin was elected as a Fellow of the Society of American Foresters in 2020, was inducted into the Arkansas Foresters' Hall of Fame in 2021, and is the recipient of the 2022 Lifetime Achievement Award for Silvicultural Excellence from the Washington Office of the USDA Forest Service.

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Instructors (cont.)

Dr. Wayne Clatterbuck is a Professor of Silviculture and Forest Management at the University of Tennessee in Knoxville. He holds an appointment with UT Extension. His responsibilities are in forest management education and include assistance to the county extension network in forestry, coordinator of the Tennessee Master Logger Program, forest landowner education, and continuing education for forestry professionals. He has been with the university since 1995. The primary research interest of Dr. Clatterbuck is in forest stand dynamics focusing on the ecological changes in species composition, stand structure and development during forest succession and following forest disturbance. His studies center in hardwood silviculture, particularly oak species, from obtaining regeneration to intermediate stand treatments and rehabilitating undesirable cutover stands. He directs several graduate students and is the instructor for the undergraduate and graduate silviculture classes.

Dr. Chris Oswalt is currently a Research Forester for the USDA Forest Service Forest Inventory & Analysis (FIA) program and Adjunct Assistant Professor of Forestry in the Department of Forestry, Wildlife, & Fisheries at The University of Tennessee in Knoxville, TN and in the Department of Forestry and Environmental Conservation at Clemson University. Chris received his Ph.D. from The University of Tennessee in 2008. Chris's research includes the monitoring and assessment of forest resources at multiple geographic and taxonomic scales. Specifically, Chris's research focuses on the impacts of nonnative plants on forested systems, investigating alternative management strategies for hardwood plantations, tracking spatial and temporal shifts of forest communities in the United States, and investigating novel ways to meet the data needs of customers and partners of the USDA Forest Service FIA program.

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****Interested participants must have an e-mail address in order to view Zoom webinars.****

Registration Fee

The fee for this course is \$240. There is a \$50 discount for fees paid and postmarked by 1 August 2023.

Continuing Education Credits

- 8 hrs Continuing Forestry Education (CFE) hours - Category 1 (applied for)
- 8 hrs Continuing Logger Education hours - Category B (applied for)
- International Society of Arboriculture hours (applied for)
- 1 hr GA pesticide applicator credits - Category 10 & 23 (approved)

Full Attendance is Mandatory to Receive Credit

Cancellations

Notify Dr. James Johnson at 706-308-6396 or james.johnson26@uga.edu by 5:00 p.m. August 1, 2023 to receive a refund.

Tuesday August 15, 2023

Time	Event
8:15 a.m.	Welcome, use of zoom, chat box, sign-in sheets, continuing education certificates, and other items - <i>Clabo</i>
8:30	Why shortleaf pine? - <i>Guldin</i>
9:30	Shortleaf pine—a virtual tour - <i>Guldin</i>
10:15	Break
10:30	Historic shortleaf pine population trends and the current resource - <i>Oswalt</i>
11:15	Natural regeneration of shortleaf pine - <i>Clatterbuck</i>
12:15 p.m.	Adjourn

Wednesday August 16, 2023

Time	Event
8:30 a.m.	Shortleaf pine and fire - <i>Clabo</i>
9:30	Artificial regeneration of shortleaf pine - <i>Clabo</i>
10:30	Break
10:45	Potential challenges with shortleaf pine management - <i>Guldin</i>
11:45	Managing for shortleaf pine-hardwood mixtures - <i>Clabo</i>
1:00 p.m.	Wrap-up and management scenario group questions
1:15	Adjourn

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Register online at

<https://conted.warnell.uga.edu/>

Registration by Regular Mail

Name - please print

Preferred name for badge

Business mailing address or Home address (please check one)

City State Zip County, if Georgia

Home phone Work phone Fax

Email address Please send me e-mails about other Warnell Continuing
Education programs.

Position Organization/employer

By registering for this event I agree to comply with all event cancellation policies.

Shortleaf Pine Establishment and Management Workshop August 15-
16, 2023

Early registration through 1 August 2023.....\$190.00

Regular registration:.....\$240.00

Enclosed is a check #____ (payable to Warnell School of Forestry and
Natural Resources). Fee must be received to process payment.

Cancellations: Notify James Johnson at 706-308-6396
(james.johnson26@uga.edu) by 5:00 p.m. August 1, 2023 to receive a
refund.

Mail payment to: Attn:

James Johnson
Warnell School of Forestry & Natural Resources
University of Georgia
180 East Green Street
Athens, Georgia 30602