

The Warnell Continuing Education Program

Daniel B. Warnell School of Forestry and Natural Resources

Forest Management I: Tree- and Stand-Level

Decisions

August 5, 2011

Instructor: Pete Bettinger

Warnell School of Forestry and Natural Resources,

Room 4-516



WARNELL
SCHOOL OF FORESTRY AND NATURAL RESOURCES
THE UNIVERSITY OF GEORGIA

About the Program

Quantitative and qualitative forest management methods have long been used for making decisions concerning the timing of activities to meet silvicultural and management objectives. Foresters use a number of techniques to decide when and where to implement management activities, and to assess alternatives that acknowledge economic, ecological, and social goals. This course represents the first of a series of forest management continuing education courses that review and explore techniques and methods for developing forest plans.

This short, four-hour course will:

- Briefly introduce decision-making processes and planning
- Review methods for structural evaluations of forest conditions
- Discuss tree-level optimization
- Discuss methods for rotation age determination
- Discuss the problems of optimum rotation age, thinning timing, and stocking levels
- Discuss net present value and bare land value for stand-level decision-making
- Discuss dynamic programming for stand-level decision-making

Upon completion of this course, you should be able to:

- Understand the basic principles of decision-making and planning processes
- Understand the methods for determining the optimal tree-level rotation age
- Understand the common problems related to, methods for, stand-level decision-making

Who Should Attend?

Natural resource management professionals who are involved in making decisions regarding the timing of silvicultural activities, but could use a short refresher on the methodology. People who want to learn more about quantitative forest management principles in order to advance their careers or to meet the needs of a professional certification organization.

Registration Fees

The fee for this course is \$120, which includes instructional materials, one luncheon.

Format

The course involves lecture presentations that provide an overview of forest management principles as they pertain to forestry and natural resource management in the United States. The material will be presented in a logical manner, from an introduction to decision-making and planning to principles for tree-level and stand-level optimization of decisions. These lectures all occur within a four-hour period of time on the day of the course. Handouts will be provided to summarize the material presented.

The Warnell Continuing Education Program

Daniel B. Warnell School of Forestry and Natural Resources

Forest Management I: Tree- and Stand-Level

Decisions

August 5, 2011

Instructor: Pete Bettinger

Warnell School of Forestry and Natural Resources,

Room 4-516



WARNELL
SCHOOL OF FORESTRY AND NATURAL RESOURCES
THE UNIVERSITY OF GEORGIA

Instructor

Dr. Pete Bettinger is a professor in the Warnell School of Forestry and Natural Resources. He has more than 25 years of operating, teaching, and research experience in forestry and natural resources, including roles with the U.S. Forest Service, several forest products companies, and Oregon State University. Dr. Bettinger has taught courses on forest measurements, forest planning, and harvest scheduling, as well as GIS applications in natural resource management. In 2009, Academic Press published his book *Forest Management and Planning*, and in 2008 Oxford University Press published his book *Geographic Information Systems: Applications in Natural Resource Management*. Dr. Bettinger earned BS and MS degrees from Virginia Tech; and a PhD from Oregon State University.

Course Itinerary

August 5, 2011

Time	Event
9:30 AM	Registration
10:00	Brief introduction to decision-making and planning processes
10:30	Review of structural evaluations of forest conditions
11:00	Tree-level optimization, stand-level rotation age determination
12:00 PM	Lunch
12:30	Optimum rotation age, thinning timing, and stocking levels
1:00	Net present value and bare land value for stand-level decision-making
1:30	Dynamic programming for stand-level decision-making
2:30	Adjourn

The Warnell Continuing Education Program

Daniel B. Warnell School of Forestry and Natural Resources

Forest Management I: Tree- and Stand-Level

Decisions

August 5, 2011

Instructor: Pete Bettinger

Warnell School of Forestry and Natural Resources,

Room 4-516



WARNELL
SCHOOL OF FORESTRY AND NATURAL RESOURCES
THE UNIVERSITY OF GEORGIA

Continuing Education Credits

- 4.0 Continuing Forestry Education credit hours (pending approval)
- 4.0 Continuing Logger Education Hours (CLE) – Environmental (pending approval)

Full Attendance is Mandatory to Receive Credit.

You may register using the form below, or register online at <http://conted.warnell.uga.edu> or by phone by calling Ingvar Elle at 706-583-0566.

Registration Form

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 and lodging cancellation policies.

Forest Management I: Tree- and Stand-Level Decisions

Registration by August 4, 2011.....\$120.00

Total: \$_____

Enclosed is a check # _____

(payable to Warnell School of Forestry and Natural Resources)

Your registration will not be processed until payment is received.

Cancellations:

Notice must be received by 5:00 p.m. July 22, 2011 to receive a refund.

The Warnell Continuing Education Program

Daniel B. Warnell School of Forestry and Natural Resources

Forest Management I: Tree— and Stand-Level

Decisions

August 5, 2011

Instructor: Pete Bettinger

Warnell School of Forestry and Natural Resources,

Room 4-516



WARNELL
SCHOOL OF FORESTRY AND NATURAL RESOURCES
THE UNIVERSITY OF GEORGIA

Mail payment to:

Attn: Ingvar Elle

Warnell School of Forestry & Natural Resources

The University of Georgia

Athens, Georgia 30602

Parking and Directions

A visitor parking deck is located just north of the Georgia Center. Parking is \$10.00 per day.

For a map and directions go to:

http://www.warnell.uga.edu/h/aboutWSFR/directions/index_html

Special Services

If you require special services or dietary considerations, please contact Ingvar Elle at 706-583-0566 or e-mail him at ielle@warnell.uga.edu prior to August 4, 2011.