

## Registration Form

Last Name \_\_\_\_\_ First Name \_\_\_\_\_ Middle Initial \_\_\_\_\_

Street Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip code \_\_\_\_\_

Home Phone (\_\_\_\_) \_\_\_\_\_ Birthdate \_\_\_\_/\_\_\_\_/\_\_\_\_ Email Address \_\_\_\_\_

I'm interested in the following classes: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Credit Card: \_\_\_\_\_ MasterCard \_\_\_\_\_ VISA \_\_\_\_\_ Credit Card Number: \_\_\_\_\_

Expiration Date: \_\_\_\_\_ Security Code: \_\_\_\_\_ Signature: \_\_\_\_\_

The following information is not required, but will help us identify your records should you need an official transcript of attendance. It is kept confidential. Aggregate data on race/ethnicity and high school attendance is used for state and federal funding purposes. Though your response is optional, it is very much appreciated.

Social Security Number \_\_\_\_\_ or Student ID Number \_\_\_\_\_

Race/Ethnicity: \_\_\_\_\_ American Indian, \_\_\_\_\_ Asian, \_\_\_\_\_ Black, not Hispanic, \_\_\_\_\_ Hispanic, \_\_\_\_\_ White, not Hispanic, \_\_\_\_\_ Native Hawaiian/other Pacific Islander

Mail registration form with payment to: Northcentral Technical College, Attn: Continuing Education, 1000 W. Campus Drive, Wausau, WI 54401

## Workshop Background

This workshop is packed with valuable and important information for kiln operators and managers. The variety and quality of the information make this a must attend event. The workshop will focus on drying systems, controlling lumber quality, species specific drying, wood structure and drying science. Over twenty breakout topics will be covered to help you maintain a successful kiln operation.

This fast-paced workshop will include several lab exercises to apply concepts taught in the classroom.

### Who Should Attend?

Kiln Operators, Purchasers, Sales Representatives, Production Supervisors, Plant Managers and others who deal with wood moisture related issues

### Location

Northcentral Technical College Antigo Campus  
Wood Technology Center of Excellence  
312 Forrest Avenue, Antigo, Wis., 54409

## Agenda

### Monday, August 12 8:00 a.m. – 5:00 p.m. Wood Structure & Drying Science

- The Drying Operation
- Structure of Wood as it Relates to Drying
- Determining the Moisture Content of Wood
- The Use of Kiln Samples
- Wood-Moisture Relations and Shrinkage
- Relationship Between Relative Humidity, Temperature and Equilibrium Moisture Content of Wood
- Kiln Operation Exercise

### Tuesday, August 13 8:00 a.m. – 5:00 p.m. Drying Systems

- Drying Stresses and Defects
- Kiln Schedules: Development, Modification and Use
- Equalizing and Conditioning Treatments
- Causes and Control of Sticker, Fungal and Chemical Stain in Lumber Drying
- Lumber Stacking, Air Drying, Shed Drying and Pre-drying
- Effects of Air Velocity on Drying
- Kiln Operation Exercise
- Small Scale Dehumidification and Solar Drying

### Wednesday, August 14 8:00 a.m. – 5:00 p.m. Controlling Lumber Quality

- Drying Maple and Other White Woods
- Drying Mixed Species
- Drying Trends: Kiln Size, Lumber Quality and Customer Demands
- The Effective Use of Moisture Meters
- Dry Kiln Instrumentation and Control
- Kiln Buildings and Equipment
- Kiln Operation Exercise

### Thursday, August 15 8:00 am – 2:00 p.m. Species Specific Quality Drying

- Vacuum Kiln Drying
- Boiler Basics
- Proper Boiler Maintenance
- Final Kiln Operation Exercise
- Wrap-up and Presentation of Certificates

## Speaker Lineup

<b>Travis Allen</b> Instructor, Wood Science Northcentral Technical College	<b>Bob Pope</b> Regional Sales Manager, SII Dry Kilns
<b>Mike Stewart</b> Boiler Specialist Western Technical College	<b>Dr. Scott Bowe</b> Professor, Wood Products Specialist University of Wisconsin-Madison
<b>Scott Lyon</b> Forest Product Specialist WI Dept. of Natural Resources	<b>Collin Buntrock</b> Forest Product Specialist WI Dept. of Natural Resources

## Registration Information

\$450 for Great Lakes Kiln Drying Association Members  
\$500 for Non-Members

Fees include workshop materials, light morning refreshments and a group dinner on Tuesday evening.

### How to Register

#### Mail

Send check with completed registration form to:  
Northcentral  
Technical College  
Attn: Registration  
1000 W. Campus Drive  
Wausau, WI 54401

#### Online

<http://bit.ly/NTCKiln2019>

#### Phone

715.675.3331,  
option 1  
Toll free  
888.682.7144,  
Ext. 5861.

### For More Information

Contact Continuing Education at 715.803.1034 or  
888.682.7144, Ext.1034 or [ce@ntc.edu](mailto:ce@ntc.edu)

## Hotel Information

### Super 8 Hotel

715.623.4188

### 535 Century Avenue, Antigo

A room with two queen beds and light housekeeping services during the week. A full breakfast consisting of cereal, breakfast sandwiches, oatmeal and pastries is provided.

### Holiday Inn Express

715.627.7500

### 2407 Neva Road, Antigo

A full hot breakfast plus cereal, fruits and pastries is provided.

Non-profit Org.  
U.S. Postage  
**PAID**  
Permit No. 578  
Wausau, WI



Kiln Drying  
NTC Antigo Campus  
August 12-15, 2019

RETURN SERVICE REQUESTED



## Kiln Drying Short Course Drying Quality Lumber

August 12-15, 2019  
Antigo, WI



Presented by Northcentral Technical College and the  
Great Lakes Kiln Drying Association