



ESF Outreach
SUNY College of Environmental Science & Forestry
Syracuse, New York 13210-2784

ESF OUTREACH
SUNY College of Environmental
Science & Forestry

Kiln Drying: Drying Quality Lumber for Profit



January 8 - 11, 2007
SUNY-ESF
Syracuse, NY

Sponsored By

State University of New York
College of Environmental Science and Forestry
Faculty of Construction Management
and Wood Products Engineering
Wood Utilization Service
New York Center for Forestry
Research and Development

In cooperation with
New England Kiln Drying Association

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Kiln Drying Workshop

This course will provide practical knowledge about how wood is effectively kiln dried, and scientific background on related wood properties and drying processes. It will have value for novice as well as experienced kiln operators, and sales, purchasing, marketing and manufacturing managers. Instruction, by university professors and various industry experts, will be in the classroom and through hands-on lab exercises using our modern kiln.

Instructors:

Dr. Bill Smith, Wood Products Engineering, SUNY-ESF
Dr. Bob Meyer, Wood Products Engineering, SUNY-ESF
Bob Pope, USNR Irvington-Moore
Peter Garrahan, Forintek, Canada and
Additional Industry Drying Experts

Preliminary Program Topics

Monday, January 8 9:00 AM - 5:00 PM
9:00-9:30pm Registration in Baker Lobby

Wood Fundamentals, Room 139, Baker Lab

9:30 am- 5:00 pm
Wood-Water Relations
Wood Structure and Anatomy
Moisture Determination

12:00 Lunch in Room 184

Wood Shrinkage
Drying Degrade
Lab exercise - kiln operation

5:00 pm BBQ in Room 184

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Tuesday, January 9 8:15 AM - 5:00 PM

Managing Drying Operations

8:00am Continental breakfast
Managing Drying Operations
Air and Predrying
Kiln Instrumentation
Controlling Kiln Operation
Kiln Schedules; Use and Modification

12:00pm Lunch in Room 184, Baker Lab
Steam Basics and Utilization
Steam Kilns
Dehumidification Kilns
Vacuum Kilns
Lab exercise - kiln operation

5:00pm *Dinner on your own*

Wednesday, January 10 8:15 AM - 5:00 PM

Dry Kiln Operation and Maintenance

8:00am Continental breakfast
Equilization and Conditioning
Kiln Operation and Maintenance
Drying Maple and White Woods
Drying Oak
Air velocity
Kiln Buildings and Maintenance

12:00pm Lunch in Rm 184, Baker Lab
Lumber Stacking
Kiln Loading
Moisture meters
Lab exercise - kiln operation

5:00pm *Dinner on your own*

Thursday, January 11 8:15 - 3:30 PM

Lumber Quality

8:00am Continental breakfast
Maximizing Lumber Quality
Preventing stain and discoloration
Control of warp

Checking, splitting, honeycomb
12:00pm Lunch in Room 184, Baker Hall
Lumber Storage
Redrying Wetted Lumber
Lab exercise - kiln operation
Open discussion, Questions

3:30pm **Course concludes**

Lodging:

A block of rooms is reserved at the Parkview Hotel, 713 E. Genesee St., Syracuse, NY 13210. To reserve a room at a special rate of \$82 per night, call 1-800-365-4663 and mention the Kiln Drying workshop.

Rooms are available at the Sheraton University Hotel, 801 University Ave. within walking distance. Call 1-800-395-2105 to arrange a room at the overnight single rate \$114, double \$124.

To Register:

By Credit Card **ONLINE** or complete and mail the attached registration form with your registration fee or fax to (315) 470-6890.

Workshop Fees:

Registrations received by December 21 are \$445. If received after December 21, the fee is \$495. The workshop fee includes BBQ dinner on Monday, lunch on Tuesday, Wednesday and Thursday, break refreshments, parking at Irving Garage and drying textbooks and workshop materials.

Refunds:

Participants who wish to cancel must give **written notice** two weeks prior to the event date to receive a refund minus an administrative fee of \$50. Cancellations **cannot** be taken by phone. Substitutions are permissible any time. SUNY-ESF reserves the right to cancel a program in the event of insufficient registrations. A full refund will be given if a program is cancelled due to insufficient registrations.

Questions? Check our program on the web!

For program updates visit us on the web at www.esf.edu/outreach/pd/2007/kiln. Call ESF Outreach (315) 470-6817 about registration questions or phone Bill Smith at (315) 470-6832.

Hurry! Space is limited!

Registration Form

Kiln Drying Workshop Drying Quality Lumber for Profit

Please **PRINT** clearly (one name per form)

Name _____

Organization _____

Address _____

City _____ State ____ Zip _____

Phone (___) _____ Fax (___) _____

email: _____

Dietary or special needs: _____

Register me for the Kiln Drying Workshop on January 8 -11, 2007.

Fees:

- o **received** by December 21: \$445
- o **received** after December 21: \$495

Secure and FAST! Two ways to Pay:

- Pay **ONLINE with Visa or Mastercard** (no American Express) at <http://www.esf.edu/outreach/pd/2007/kiln/>. Your registration will be processed immediately and securely online when you pay online with a credit card.
- Check - Please make checks payable to "SUNY Research Foundation". Mail or fax your registration form to:

ESF Outreach, 219 Bray Hall, SUNY
College of Environmental Science &
Forestry, Syracuse, NY 13210-2784,
FAX: 315-470-6890

We must receive both registration information and payment to confirm a reservation. Registrations received less than 10 days before the scheduled event will not be confirmed. SUNY ESF reserves the right to cancel a program due to insufficient enrollment and in such cases a full refund will be given.