Cross-Laminated Timber and Other Value-Added Engineered Products

Bob Ross
USDA Forest Service
Forest Products Laboratory
Madison, WI


TigerShark
unmanned aerial vehicle


STRUCTURAL WOOD

Mass Timber (CLT) Research Workshop

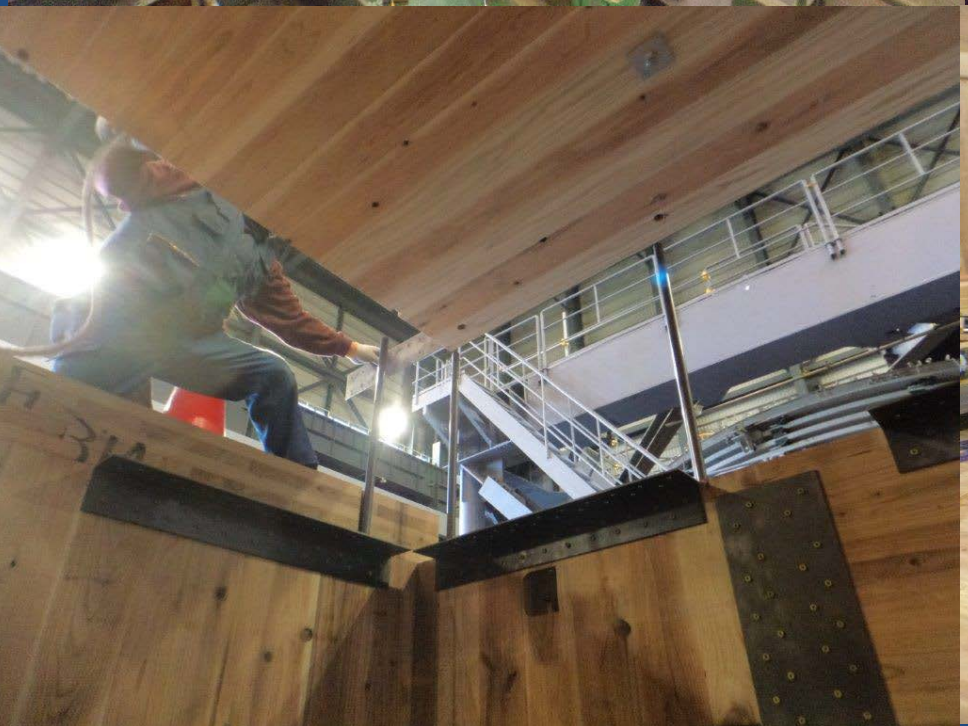
- WoodWorks-Wood Products Council
- USDA Forest Service, Forest Products Laboratory
- November 2-5, 2015
- Purpose
  - Review past and present research
  - Identify and prioritize research needs, shape future research efforts

Program

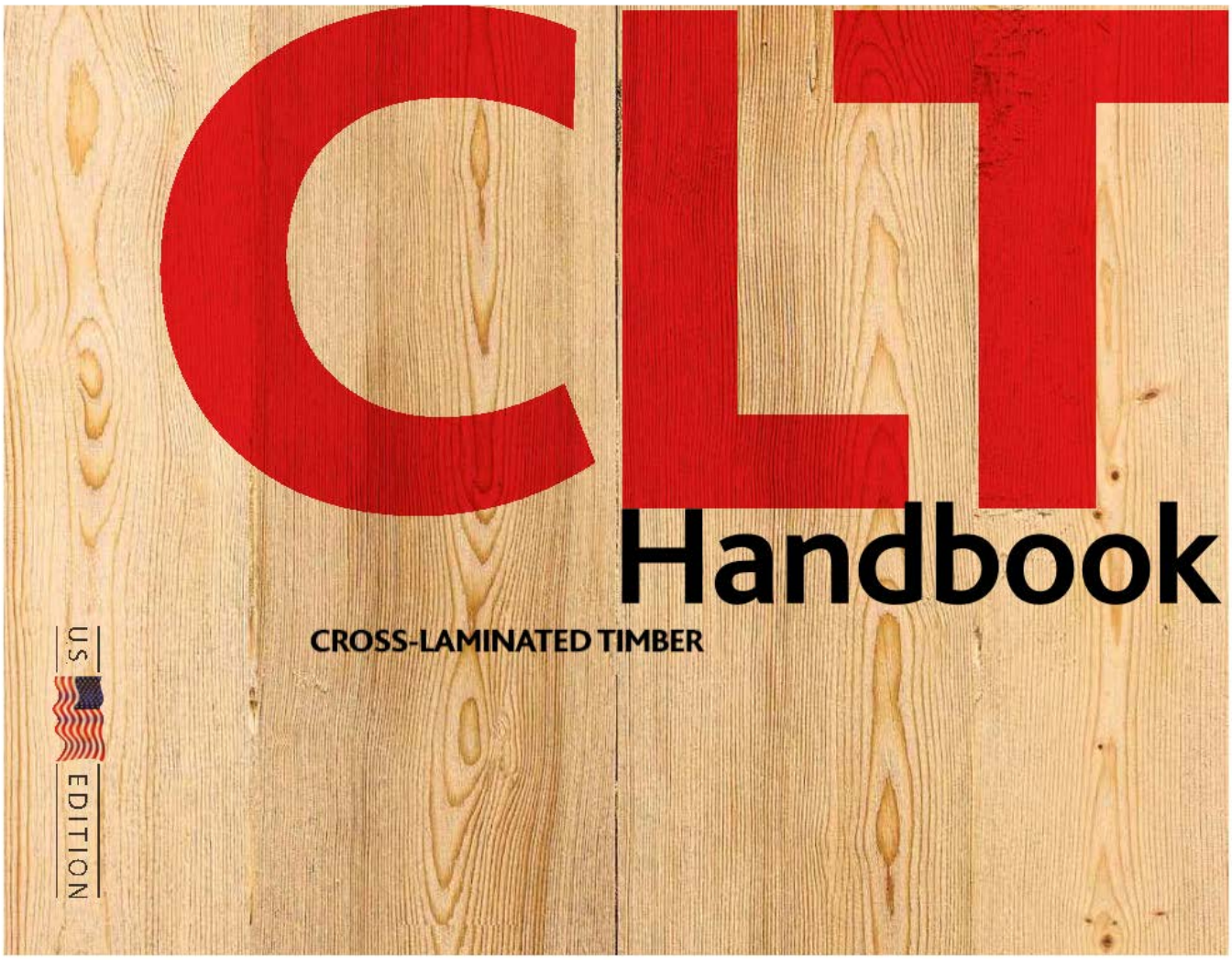
- Plenary Session-Mass Timber in North America
- Resistance to Lateral Loads
- Building Performance—Durability, Sound, Vibration, Life Cycle Analysis
- Fire Safety
- Material Resources and Other Research Topics


WALSA


150/40t
三菱重工




CAUTION
CAUTION
CAUTION
CAUTION
CAUTION


CLT
Handbook
CROSS-LAMINATED TIMBER
U.S.
EDITION


TigerShark
unmanned aerial vehicle

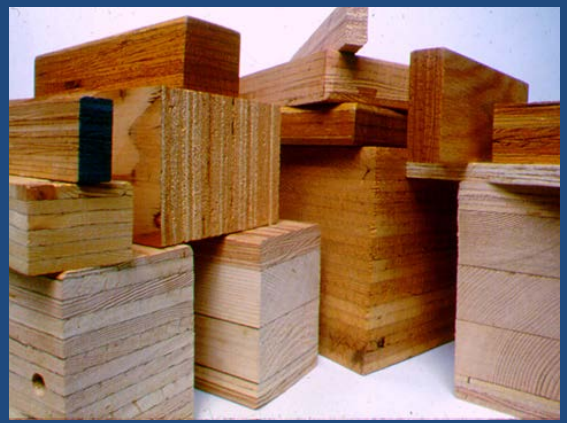
Production of Some Engineered Wood Building Products, 2014

North America Production (U.S. and Canada)—

Glulam (million board feet)—254.8

Laminated veneer lumber (LVL, million cubic feet)—63.9

I-joists (million linear feet)—677.3 (enough to circle the globe approximately 4 times!)




CELEBRATING
100,000 FLIGHT HOURS
UNMANNED
U.S. ARMY
Hunter
Warrior
Raven
Shadow
Fire Scout
AIRCRAFT SYSTEMS


TigerShark
unmanned aerial vehicle

USDA
United States Department of Agriculture

Undervalued Hardwoods for Engineered Materials and Components

Second Edition

Robert J. Ross

Forest Service
Forest Products Laboratory
General Technical Report FPL–GTR–xxx
2016

Undervalued Hardwoods for Engineered Materials and Components

Cooperative effort by Michigan Tech, USDA Forest Service

Fundamental properties

Manufacturing--sorting, grading and properties of hardwood industrial materials (logs, veneer, lumber)

Engineered products--trusses, I- joists, laminated veneer lumber, glulam, timber bridges, CLT, specialty engineered materials, nano-cellulosic products


TigerShark
unmanned aerial vehicle

The Portland Tribune

CONGRATULATIONS NEW YORK

(FOR KEEPING UP WITH OREGON)

RENDERING: Pearl District, Portland
Image courtesy of SERA Architecture

Projects in Portland and New York have each won $1.5 million in the U.S. Tall Wood Building Competition, placing both cities at the forefront of environmentally responsible construction and cutting edge timber technology. These projects will highlight how the use of wood can help fight climate change and support rural economies. Now, if only New York could brew a drinkable IPA.

OregonForests.org/tallwood

Sustainable Northwest · D.B.C. · Oregon Forest Resources Institute · Oregon State University OSU · University of Oregon

In addition to congratulating Portland's Framework Team, we recognize the following organizations who are supporting innovative uses of Oregon wood products: Beneficial State Bancorp, Business Oregon, Oregon BEST, Oregon Business Association, Oregon Department of Forestry, Oregon Forest Industries Council, Portland Business Alliance, WoodWorks, and Wood Technology Center.

Thank you! Questions?