



Wood Machining News

WORLDWIDE DEVELOPMENTS IN RESEARCH AND INDUSTRY

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SmallWood 2012: Forest Restoration for a New Economy

The conference, organized by the Forest Products Society, will be held at the Little America Hotel in Flagstaff, Arizona, USA on May 1-3, 2012. The conference will provide information you need to adapt to changes and to be successful in our current dynamic economy and industry. By focusing on our forest resources as well as the forest products industry, we will begin to understand key interactions and how to build a true forest restoration for a new economy. By attending SmallWood 2012 you will engage with an international slate of speakers, including researchers, material and equipment suppliers, manufacturers, and end-users providers.

Enormous quantities of woody biomass are being generated from hazardous fuel reduction activities and salvage operations following wildfires and treatment of bug-killed forests. These issues drive the need to create solutions for using low-value and waste wood.

The conference includes two full days (May 1-2) of sessions and one day (May 3) of field trip options. Engaging and interactive technical and poster presentations, discussions, and tabletop exhibits include topics such as:

- Policies and incentives for forest restoration
- Pretreatment of woody biomass to reduce hauling costs
- Pyrolysis technologies
- Harvesting systems
- Processing and manufacturing
- New technologies and opportunities
- Collaborative approaches to sustainable supply
- Business practices for this new economy
- Biomass energy
- Marketing
- Environmental and safety regulations

The SmallWood 2012 Conference is held in conjunction with **SAF Southwestern Section Spring Meeting** on Wednesday May 2.

For more information, contact:
Forest Products Society
2801 Marshall Ct
Madison, WI 53705
608 231 1361 phone
608 231 2152 fax
Email: conferences@forestprod.org.

2012 Global Softwood Log & Lumber Conference

The International Wood Markets Group is presenting Global Softwood Log & Lumber Conference, May 9, 2012, at the Hyatt Regency Hotel, Vancouver, BC. This one-day conference will focus on timely events and hot topics related to North America and key international markets and supplying regions, with a specific focus on softwood logs and lumber. The conference is offering timely and strategic perspectives to better determine when markets will rebound and identify existing growth opportunities. The presentations will include:

Session 1: Global Dynamics

- Global Marketplace Dynamics, *Reid Carter, Managing Partner, Brookfield Timberlands, Canada.*
- Global Lumber Trends, *Russell Taylor, President, Wood Markets, Canada*

Session 2: Asia

- China Log & Lumber – 1, *David Xu, President, Shandong GudFanZeHai, China*
- China Log & Lumber – 1, *Craig Penfold, Director, Sales & Marketing, Greenheart Group, Hong Kong*
- Russia, *Slava Byeekhov, MD, Communications, Klim Timber Industry, Russia*
- Middle East, India, etc., *Mo Amir, Office & Sales Manager, SPF Precut Lumber, Canada*

Session 3: North America

- US Log Supply, *Brent J. Keefer, Director, Hancock Timber RG, USA*
- North America Lumber, *Chris McIver, VP, Lbr Sales/Corp Devel., West Fraser, Canada*
- BC Mountain Pine Beetle, *Jim Girvan, President MDT, Ltd., Canada*

Session 4: Europe & Southern Hemisphere

- Europe, *Olle Berg, SVP, Marketing & Sales, Stora Enso, Finland*
- Chile & Brazil, *Charles Kimber, Corp. Affairs & Marketing Director, Arauco, Chile*
- NZ & Australia, *Robert Eastment, Director, Industry Edge, Australia*

This conference is a follow up to the very successful Global Wood Products Conference held in Vancouver in May 2011 that attracted almost 200 delegates from around the world. It was also held in conjunction with 2011 Global Forest Products Leadership Summit. The Conference will provide networking sessions with the who's who of the global log and wood products trade, providing you with a unique opportunity to network with professionals and practitioners in the global wood products industry.

For more information, visit: <http://www.forestproductssummit.com>.

New Oregon Lithium-ion Battery-Powered Chain Saw

Blount, Inc., the world's largest manufacturer of saw chains, has launched the new Oregon PowerNow 40V MAX lithium-ion battery-powered chain saw. The PowerNow chain saw offers instant starting without a pull cord, powerful cutting with no-fade power, and long runtime -- all free from the hassles of gasoline or cords. At slightly less than 11 pounds, the PowerNow chain saw is light weight and easily portable, as well as offering ergonomic comfort.

Equipped with a 14-inch bar, the PowerNow chain saw can power through logs as large as 10 to 12 inches thick. For smaller cuts, the chain saw goes non-stop, cutting up to 250 two- to three-inch branches on a single charge with the Endurance battery pack.



According to the manufacturer, this battery-powered chain saw delivers a combination of performance and features that makes it a true alternative to many gas-powered chain saws. Landscapers may depend on this chain saw for removing trees, pruning large branches, or clearing debris from property. When not in use, the PowerNow chain saw lithium-ion battery pack holds a charge for months. The PowerNow chain saw is much quieter than gas-powered chain saws in use and is silent between cuts. This is ideal for early-morning landscaping around homes or apartment buildings. With no fumes or emissions, it is also appealing to homeowners and municipalities that are interested in greener landscape maintenance.

"The PowerNow chain saw starts instantly with the pull of the trigger -- no pull cords, no gas, and no warm-up times. It is quiet and offers powerful cutting with no-fade power until discharge. The lithium-ion battery pack provides long runtime, so the PowerNow chain saw is ready to perform," said Alan Lofurno, Business Unit Director, PowerNow Tools.

Many landscapers use gas-powered chain saws because they don't believe that cordless electric chain saws have the power to perform," said Alan Lofurno, business unit director, PowerNow Tools. "That has all changed with the new Oregon PowerNow chain saw. Its combination of power, instant start, low noise and zero emissions make it a great addition to a crew's toolbox."

The PowerNow chain saw features Oregon's PowerSharp built-in chain sharpening system. When the chain dulls, simply pull the PowerSharp lever for 3 to 5 seconds with the saw running, and the chain will work like new.

For more information, visit: www.OregonPowerNowTools.com.

New DeWalt Circular Saws with Electric Brake

DeWalt redesigned its 7-1/4" circular saw, model DWE575 (see below), which will be offered with an electric brake. The saw weighs 8.8 lbs. making it one of the lightest circular saws in its class, according to DeWalt. It features a 57-degree bevel capacity, 2-9/16" depth of cut, ToughCord cord system, ball bearing lower guard and aluminum shoe.



According to Product Manager Ivonne Meza, the saw will be available in the second half of 2012. It will retail for \$129; or \$139 in kit form. For more information, visit: www.dewalt.com.

NOTE: The use of an electric power brake is not a new concept. According to DeWalt 1995 Power Tools & Accessories Catalog, Circular Saws DW360; DW364 and DW384 were offered with an electric brake. In 2009 the Circular Saw DW369 had automatic electric brake which is designed to stop the blade from coasting in about two seconds.

DeWalt Circular Saw with Riving Knife

The DeWalt D23620K 184mm Circular Saw 240V (see below) offered in the UK comes with a riving knife/spreader – see black part on the back (£89.00 ex. VAT). For more information, visit: www.thesawcentre.co.uk/powertools.



The riving knife on portable power saws has been required by German OSHA (Holz BG) since 1975; however there is no such requirement in the United States.

Last year I investigated an accident with the DeWalt DW 368 (7-1/4" (184mm) Lightweight Circular saw (\$199.00) without a motor brake or riving knife. The power saw operator was holding the board with his left hand placed behind the saw when the saw kicked back. The lower guard failed to close and his left hand thumb was severed from his hand by the saw. The presence of a riving knife (spreader) would have prevented this accident. (continued on page 3)

KCMA Performance & Construction Standard For Kitchen & Vanity Cabinets Updated

The Kitchen Cabinet Manufacturers Association (KCMA) announced that on January 27, 2012, the American National Standards Institute (ANSI) approved revisions to the U.S. performance standard for kitchen cabinets and bath vanities, ANSI/KCMA A161.1-2012.

KCMA has been recognized by ANSI since 1970 as a standards developer. The ANSI/KCMA A161.1 standard has been reviewed every five years consistent with ANSI policy and revised and strengthened seven times since its inception in 1965 to ensure that the standard reflects improvements in technology, materials and construction. The ANSI approval concludes an extensive two-year process initiated by KCMA under strict ANSI guidelines including participation and review by consumer and supplier organizations, builders, remodelers, the U.S. government, architects, and other related groups.

Changes to the standard include (1) clarification that the drawers, as well as the doors, of the cabinets shall be properly aligned and shall close without excessive binding; (2) the static loading test for wall cabinets over 24 inches in height has been increased from 500 pounds to 600 pounds; (3) the timing of the open/close cycles for doors and drawers has been standardized; and (4) lighting conditions for observing finish performance have been established.

A printable copy of the Directory of Certified Manufacturers which lists the certified companies and cabinet lines complying with the standard can be downloaded from the KCMA web site at <http://kcma.org/directory.cfm>.

DeWalt Circular Saw with Riving Knife

(continued from page 2)

I discuss safety issues of portable circular power saws in greater detail in *Wood Machining News* (2001-2009). See reference (1) below pointing to the German OSHA (Holz BG) requirements and the fact that American Skill circular power saws with riving knife were sold in Europe over 10 years ago, but not in the USA.

References

1. Safety Issues of Portable Power Saws, *Wood Machining News*, November/December, 2001. Figure 4, Skill Saw Model 5246 with riving knife advertized in Europe.
2. Safety Issues: Safe Design and Operation of Portable Circular Power Saws, Part 1, *Wood Machining News*, January/February 2004, page 3.
3. Safety Issues: Safe Design and Operation of Portable Circular Power Saws Part 2, *Wood Machining News*, March/April 2004, page 3.
4. Portable Power Saws with Retractable Riving Knife, *Wood Machining News*, November/December 2007, page 3.
5. Ligna Hanover 2009 – Forestry and Wood Industry Fair in Hanover, Germany: Protocol UniverS Sword Saw and Portable Power Saws. *Wood Machining News*, 2009.

*Ryszard Szymani, Ph.D., Editor/Publisher,
Safety Consultant and Accidents Investigator*

Book Reviews

2012 Big Book: The Buyers and Sellers Directory of the Forest Products Industry. Terry Anderson, Big Book Production Manager, Random Lengths Publications, Inc., Eugene, Oregon, 880 pp, \$239.95

The 2012 Big Book is the most current, the most accurate, and the most used buyer's and seller's guide in the North American softwood products industry. This year's Big Book contains more than 4,454 company listings in its 880 pages. The detailed personnel index, listing the names and companies of more than 17,186 individuals, alone is more than 60 pages.

Thousands of comprehensive listings of softwood lumber and panel producers, remanufacturers, lumber treaters, wholesalers, and other companies are available to help you locate that hard-to-find product and expand your customer or supplier base. Also included are: detailed Lumber, Studs, and Plywood Product Finders; Specialty Products lists; and complete company, personnel, location, web site, and grading agency indexes.

According to the Big Book Production Manager, each and every company listed in last year's was contacted for updated information. Hundreds of new listings were added. The result is the most current, comprehensive, and accurate directory of the forest products industry available.

For more information, or questions about the content of the Big Book, FREE listings, and questionnaires, contact: Random Lengths Publications, Inc., P.O. Box 867, Eugene, OR 97440-0867. Tel: (541) 686-9925; e-mail: rlmail@rlpi.com; www.rlpi.com.

International Wood: The Guide to Applications, Sources and Trends. ©2011 International Wood Products Association - 4214 King Street, West - Alexandria, VA 22302 USA.

The International Wood Products Association (IWPA) recently released the 8th edition of *International Wood*, a buyer's guide to applications, sources and trends. The publication includes a comprehensive, one-stop sourcing directory for the wood products industry along with feature editorials on new and innovative applications and trends for imported wood species and products. Expanded partnerships with U.S. trade associations and a new collaboration with the American Hardwood Export Council greatly expand *International Wood's* global outreach.

Brent J. McClendon, IWPA executive vice president, added, "We have an amazing opportunity to share with the world the stunning applications that imported wood species help make possible. At the same time, we get to share with the country's leading architects and designers the fantastic story for what their specification of imported plywood, flooring and decking does for sustainable forest management and conservation of our world's great forests."

Distribution: More than 20,000 key decision makers involved in the design, specification, manufacture, distribution and retail of wood products for plywood, lumber, veneer, flooring, decking, and other lumber products receive the copy in print; Digital edition gives online readers 24/7 access at www.iwpawood.org.

PUBLICATIONS

2911. Increased sawing yield by thinner saw blades and adapted green target sizes, J. Flodin and A. Gronlund. Proceedings of the 20th International Wood Machining Seminar, pp. 241- 245.

An issue of growing interest for today's sawmills is the utilization of the raw material as approximately 70 % of the sawmill costs can be derived from raw material costs. Hence it is very important for sawmills to obtain highest possible yield. Saw blade thickness and green target size are important parameters that affects the sawing yield. Modern saw lines often have high productivity with high feed speeds, thick saw blades but also often very good measurement accuracy of the sawn timber. High precision in measurement accuracy makes it possible to make a very precise adaptation of the green target sizes dependent of where in the cross section the piece is sawn. The purpose of this study was to highlight the positive effect on the sawing yield that a decreased saw blade thickness along with adapted green target sizes could bring. The sawing simulation software Saw2010 has been used along with 1596 true shape Norway spruce logs collected at the saw intake of a sawmill in northern Sweden. Three multiple ex sawing patterns, that are sawn at a sawmill in northern Sweden, have been used in the study.

The results show a decrease in saw blade thickness by 1 mm can increase the sawing yield by more than 3 %-units in multiple-ex sawing patterns. If green target sizes are adapted to cross sectional position together with a decreased saw blade thickness the sawing yield could increase by more than 5 %-units dependent on the sawing pattern. *Authors' abstract*

2912. Monitoring of Measurement Accuracy - an Industrial Case, D. Englund. Proceedings of the 20th International Wood Machining Seminar, pp. 149-154.

As the material costs in Swedish sawmills are about 70% and the largest parts of the total costs when making wood products the industry strives not only to get the highest outcome from the raw material but also be able to trace a product through the whole process. One way is to create accurate and significant quality measurements reliable enough to see effects of for example new maintenance routines, technical improvements or just detect errors in the process. In this investigation the thickness of the centre planks were measured with a laser camera technique just after the gang saw. The camera equipment was used to follow up how different parameters affected the sawing variations and how well the wanted green target sizes were met. The studies included several months of full industrial production. With collected data and monitoring from live production measured on the boards after the rotary gang a reference is created. This shows the effects of keeping accuracy on the saw machine setup to get out more of the raw material and further on make a better product for the planar mill.

With tighter tolerances on the guides of the saw blades, regular maintaining routines and for example a consciously choice of blades the same product can be made with a tighter green target size and with yearly production of about 250 000 m3 save millions. The method do not only have effect on the chosen products green target size it also prevents unexpected stops and total failures and breakdowns of the production.

The approach can also be applied on other machine groups and motivate quality thinking through the process and emphasize the importance of good maintainence. *Author's abstract*

2913. Detecting Board Defects With a Time of Flight Camera, N. Bjorngrim, O. Hagman, E. Jonze. Proceedings of the 20th International Wood Machining Seminar, pp. 160-165.

This study examines the suitability of using a Time of Flight (ToF) camera as a sensor for detecting sawing defects such as saw mismatch, wedge, taper and snake. As demonstrator a warped board with saw mismatch was used. The results showed that the ToF camera could capture the geometries of the board. When looking at the saw mismatch the measurement accuracy is poor, the actual mismatch was 1,2 mm and the mismatch measured at two points with the ToF camera were 3,4 mm respectively 4,2 mm. *Authors' abstract*

CALENDAR

March 12-15, 2012: WMF 2012 - The 14th International Exhibition on Woodworking Machinery and Furniture Manufacturing Equipment, New China International Exhibition Center (NCIEC), Beijing, PR China.

Inf.: <http://www.WoodworkFair.com>

April 3-5, 2012: 7th Edition of Dubai International Wood & Wood Machinery Show, Dubai International Convention and Exhibition Center.

Inf.: www.dubaiwoodshow.com

May 2-4, 2012: Woodworking Industry Conference – WIC 2012, Delray Beach Marriott, Delray, Beach, FL.

Inf.: info@wmma.com

May 8-12: Xylexpo 2012: 23rd Biennial World Exhibition for Woodworking Technology and Furniture Supplies, Rho Fairgrounds, Milan, Italy.

Inf.: www.xylexpo.com

May 9, 2012: The Global Softwood Log & Lumber Conference, Hyatt Regency Hotel, Vancouver, BC.

Inf.: www.woodmarkets.com/conf_conferences

June 3-5, 2012: Forest Products Society's 66th International Convention, Omni Shoreham Hotel, Washington, D.C.

Inf.: <http://www.forestprod.org/ic>

July 8 -13, 2012: IUFRO All-Division 5 Forest Products Conference, Estoril, Portugal.

Inf.: www.iufro2012.org

August 22-25, 2012: International Woodworking Fair (IWF), Georgia World Congress Center, Atlanta, GA.

Inf.: www.iwfatlanta.com

September 11-14, 2012: FMC China 2012: Furniture Manufacturing and Supply Fair, Shanghai World Expo Exhibition & Convention Center, Shanghai, PR China.

Inf.: <http://expo.fmcchina.com.cn>