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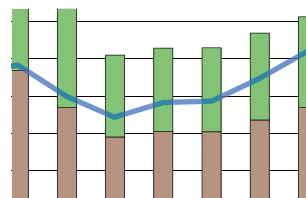
Journal



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ENGINEERED WOOD JOURNAL
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About the Cover:

EWTA's Info Fair supplier exhibition celebrates its 20th installment this year. See story page 34.



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A Trade Show Like No Other

As someone who has worked in the construction industry for a number of years, I've been to my share of trade shows. Most are held in cavernous ballrooms and feature row upon row of exhibitors that are usually only loosely associated with the industry. I've spent many hours wandering such shows, focusing more on the trinkets and miniature candy bars on the booths' tables than the information offered within.

I expected more of the same last fall when I attended my very first EWTA Info Fair at the APA Annual Meeting at Amelia Island, Fla., but I soon realized that Info Fair was more than just another industry trade show. First of all, it wasn't nearly as large as trade shows I've experienced in the past. Turns out, this is intentional.

"This is one case where bigger isn't necessarily better," says Melinda Lilley, EWTA's member services director and Info Fair coordinator. "At our show, it's easy to make it to every booth and spend quality time with the exhibitors."

Info Fair's exhibitors seemed happy to be there - and happy to meet up with other exhibitors who have become more than just industry acquaintances over the years.

Paul Pfeifer, an EWTA Advisory Committee member, account manager with Ashland Performance Materials and exhibitor at Info Fair since 1997, likens the experience to a reunion of sorts.

"Info Fair is a once-a-year chance to catch up with some of these folks," he says. "After 10 years of this, you get to know them really well."

Charged with taking snapshots of the exhibitors at their booths, I found the task more difficult to fulfill than I had originally expected. Unlike most trade show exhibitors, these folks were out mingling. Trying to round up the crew from Willamette Valley Company was trickier than herding cats. The pair with HT Staffing was so busy talking with APA members that I had to come back with my camera three times before they were free. And I finally had to give up on photographing the full crew from WPS Industries - these guys were just too busy working the floor!

This year, Info Fair celebrates 20 years of information sharing, socializing and business-making. Read more about this popular event on page 34 (and, if you're an EWTA member, don't forget to sign up for this year's Info Fair in Huntington Beach, Calif., Nov. 2-4).

This spring issue of the *Engineered Wood Journal* also features an in-depth look at formaldehyde and its uses in the engineered wood industry in a story written by Momentive's Mark Gruenwald. We also hear from Forest Economic Advisors' Greg Lewis in a piece that forecasts the North American structural panel market (news is good!).

On page 12, we compile the results of EWTA's annual Business Outlook Survey. Check it out - it seems like things are looking up!

As always, please reach out to me with any questions, suggestions or story ideas. *Engineered Wood Journal* is a magazine for and about you. Make the most of it.



sheila.cain@apawood.org

Increased Housing Starts Help Spur Panel Production Rise

Housing starts increased nearly 30 percent in 2012, creating an increase in North American structural wood panel production of 6.5 percent - the most since 2008, according to year-end data released by APA.

Panel production totaled 27.8 billion square feet in 2012, compared to

26.07 BSF in 2011. OSB output rose 16 percent while plywood production climbed 7 percent.

Among other engineered wood products, I-joist production rose by 28 percent over 2011, LVL 19 percent and glulam 6 percent.

FPS and SWST Co-organize International Convention

The Forest Products Society and Society of Wood Science and Technology have joined forces to co-organize the 67th FPS International Convention and 56th SWST International Convention June 9-11, 2013 in Austin, Texas.

The convention is an opportunity for attendees to become exposed to the wide range of timely forest products issues facing the industry worldwide. The theme for FPS's program is Forest Products

in a Global Sustainable Economy, with particular emphasis on wood technology, forest products and the environment, and human dimensions and policy. The program, led by SWST, will focus on Technology Advancement and Marketing Practices in Biomass, specifically in natural fiber-based products and biofuels.

For more information on the conference and to register, visit the conference home page at <http://www.forestprod.org/ic/about.php>

AITC Transfers ANSI Standards to APA

The American Institute of Timber Construction (AITC), which dissolved late last year, has transferred three American National Standards from AITC to APA.

The standards include ANSI A190.1-2012 *American National Standard for Wood Products, Structural Glued Laminated Timber*; ANSI 405-2008 (former AITC 405-2008) *American National Standard, Standard for Adhesives for use in Structural Glued Laminated Timber*; and ANSI 117-2010 (former AITC 117-2010) *American National Standard, Standard Specification for Structural Glued Laminated Timber of Softwood Species*.

The first two standards have been published by APA and are available as a free downloads from the Publications Library on APA's website at www.apawood.org. The last standard will be published by APA in March 2013.

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Forest Products EXPO Scheduled for June

The 32nd Forest Products Machinery and Equipment Exposition (EXPO 2013), sponsored by the Southern Forest Products Association, is scheduled for June 5-7 at the Georgia World Congress Center in Atlanta, Ga.

EXPO 2013 is a gathering of wood product manufacturing companies interested in showcasing their equipment, technologies and services.

"This show is truly an international event, attracting leading manufacturers from several foreign countries," said exposition director Eric Gee in a press release. "These companies realize the value of EXPO 2013 in presenting their company as an innovator, reaching the industry's top management and purchasing executives from throughout the U.S. and many foreign countries."

For more information about EXPO 2013, visit www.SFPAexpo.com or contact Eric Gee at egee@sfpa.org.

APA Publications Library Offers Updated ANSI Standard

The 2012 update of the ANSI Standard for Performance-Rated Cross-Laminated Timber is now available.

The standard provides requirements and test methods for qualification and quality assurance for performance-rated cross-laminated timber, which is manufactured from solid-sawn lumber or structural composite lumber intended for use in construction applications. The standard includes seven stress classes covering major wood species in North America.

The 29-page brochure, ANSI/APA PRG 320-2012: Standard for Performance-Rated Cross-Laminated Timber, is available as a free download from the Publications Library on APA's website at www.apawood.org.

Interim Department Head Named at Virginia Tech

Robert L. Smith has been appointed interim head of the Department of Sustainable Biomaterials at Virginia

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Tech's College of Natural Resources and Environment. He previously served as associate dean for engagement.

Smith will focus on continuing the department's leadership profile nationally and internationally in teaching and research of the sustainable use of natural resources.

Smith holds a doctorate in forest products marketing from Virginia Tech,

an MBA degree from the University of Wisconsin at Oshkosh and a bachelor's degree in wood science from Michigan Tech. He taught undergraduate and graduate courses in the areas of wood science, business management and forest products marketing.

Smith follows Barry Goodell, who stepped down as department head after serving for two years.

Rayonier Selling Wood Products Division to Interfor

Real estate and timberland management company Rayonier announced it is selling one of its four operating divisions, its wood products division, to Vancouver, B.C.-based International Forest Products Limited (Interfor).

Interfor has agreed to hire all 260 employees of Rayonier's wood products division, that company said.

Interfor had previously focused its lumber and wood products business in the Northwest U.S. and in Canada. This purchase, Interfor noted in a press release, gives the company its first manufacturing presence in the U.S. Southeast.

The acquisition will bring Interfor's annual capacity to more than 2 billion board feet.

In Memoriam

Michael D. St. John, 66, APA Board of Trustees member and vice president and director of Pacific Woodtech (Burlington, Wash.), died suddenly Nov. 29, 2012 in Seattle. He was also chairman of the APA Marketing Advisory Committee and had served on the APA EWS I-joist/SCL Management Committee. Mr. St. John was instrumental in expanding APA's membership and programs to include I-joists and laminated veneer lumber.



Robert "Bob" Ripley, 94, former Director of Product Acceptance (now Quality Services) at APA, died Oct. 9, 2012. He was a U.S. Navy veteran of World War II and served in the South Pacific. He joined the staff of the Douglas Fir Plywood Association in 1938 and, except for his military service, devoted his entire career to the association. He retired in 1978.

Ken Andreason, 78, retired senior APA engineer, died Oct. 21, 2012, in Tacoma. He joined the APA staff in 1979 and retired in 1997. He provided technical expertise on the design of nonresidential roof systems and for many years represented APA in meetings with the Structural Roof Erectors Association. After retiring from APA, he continued to work as an engineering consultant.

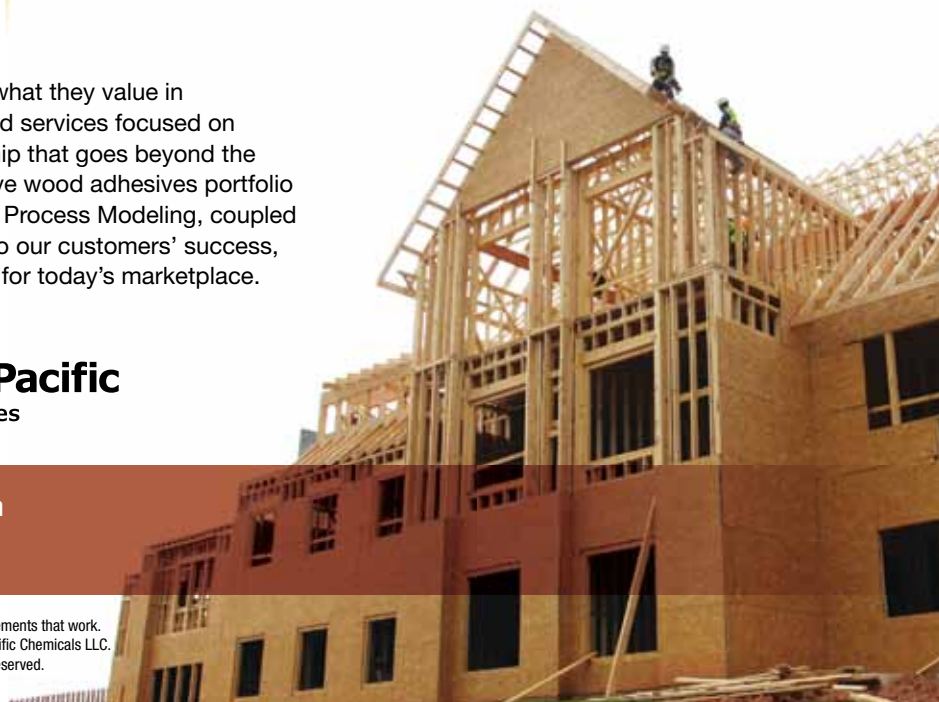
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On the Road to Recovery

EWTA Business Outlook Survey Points to Industry Optimism

by Sheila Cain

What a difference a year makes. The Engineered Wood Technology Association's 2012 Business Outlook Survey shows nearly twice as many members are optimistic about the state of their businesses than they were last year. Three times as many members expect their companies' employment levels to rise in 2013, and no respondents said their business or employment levels would worsen in the coming year.

Perhaps news of a 30 percent housing start increase in 2012 - the most since 2008 - is the cause of the optimism. Whatever the reason, EWTA members seem to be looking forward to 2013 with increased enthusiasm.

The web-based survey, sent to all EWTA members last year, poses five questions relating to wood-product businesses' employment levels and overall business health. Fifty-three percent of respondents were in the equipment/tooling category, 29 percent were in the materials/supplies category and 18 percent were in the services/consulting category. Most of the survey respondents - 82 percent - were from the U.S., while 12 percent were from Canada and six percent were offshore.

Most responding members (71 percent) indicated that their companies' wood-related business improved in 2012. Only 39 percent of respondents felt this way about business in 2011. Only six percent said business worsened in 2012, compared with 18 percent in 2011. Nearly half of the respondents (43 percent) felt business stayed the same in 2012 compared to the previous year. This year's results indicate only 24 percent felt things remained static in 2012.

An overwhelming majority (88 percent) felt business would improve in 2013. Fifty-four percent were as optimistic about 2012 in last year's survey. None of the respondents in the latest survey

thought business would get worse, compared with 14 percent surveyed last year.

The most recent survey showed that 41 percent of respondents felt wood-related employment levels increased during 2012, compared with about half that number (21 percent) in the previ-

ous survey. The coming year looks even better: 65 percent of survey responses indicated an increase in employment levels in 2013.

Overall industry optimism showed the most dramatic increase over the previous year. A whopping 88 percent said

2011-2012 Survey Response Comparisons

	December 2011 Survey	December 2012 Survey
Did your company's wood-related business over the past year:		
Improve	39%	71%
Worsen	18%	6%
Stay the Same	43%	24%
Did your company's wood-related business employment level over the past year :		
Increase	21%	41%
Decrease	18%	12%
Stay the Same	61%	47%
Do you expect your company's wood-related business in the coming year to:		
Improve	54%	88%
Worsen	14%	0%
Stay the Same	32%	12%
Do you expect your company's wood-related employment level in the coming year to:		
Increase	21%	65%
Decrease	7%	0%
Stay the Same	71%	35%
How optimistic are you about your wood related business in the coming year versus last year?		
More Optimistic	46%	88%
Less Optimistic	18%	0%
Same	36%	12%

they were “more optimistic” about business in the coming year than they were the year before. Last year’s survey showed only 46 percent of respondents felt the same way. No respondents this year were “less optimistic” than the previous year. Last year, 18 percent were less optimistic.

Survey takers were asked to rank a number of factors as “very important,” “important” or “unimportant” for industry recovery. This year, all but one respondent rated the state of the U.S. housing market as “very important.” Fifty-eight percent of respondents cited economic uncertainty as a “very important” factor, and 44 percent indicated government economic policy was “very important” for recovery.

Labor issues seem to be a relatively less important issue, with more than half (53 percent) indicating they are “unimportant.” International exchange rates/trade policies and transportation costs also drew little concern, with only 18 percent and 24 percent indicating they were “very important,” respectively.

Survey takers were asked what they have done to adapt to the marketplace during 2012. Several noted that they have diversified their businesses, formulated new products and improved practices; indicating that despite their increased optimism, EWTA members are not content to relax just yet.

Said one member: “We have begun tracking trends and keeping close tabs on all key players in the industry to predict where the industry is headed. We have also begun to partner with key industry players so we can be on the forefront of changes.” 

Sheila Cain (sheila.cain@apawood.org) is communications director of the Engineered Wood Technology Association and editor of its Engineered Wood Journal.

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"WE'RE A TOUGH BUNCH OF SURVIVORS"

APA's Resiliency Carrying Association Through Downturn, Says APA Chairman

by Sheila Cain

While the economy hasn't been kind to the wood products industry, the resiliency of APA and its members has pulled the association through the worst - and will continue to do so as the economy recovers.

This was the theme of APA Board of Trustees Chairman Mary Jo Nyblad's speech at APA's annual meeting at Amelia Island, Fla., last November. Addressing APA and EWTA members, she focused on the strength of the APA membership as a driving factor towards future industry success.

"I have been associated with this great organization...in good times and in bad," said Nyblad, whose two-year term ends in November, "and I cannot recall a period when we have had greater unity, consensus and a shared sense of mission.

"This collective focus will serve us well as we climb out of the market doldrums to pursue new opportunities in a recovering economy."

APA was fortunately in a strong position going into the recession, Nyblad said, and in many ways is stronger coming out of it. She identified three specific strengths that put APA in an enviable position going forward: membership, focus, and APA's strength as the voice for the industry.

Strength #1: A Growing Membership

APA has gained 13 new member mills in the past year, bringing membership to 154 facilities in the U.S., Canada and South America. In the U.S and Canada, APA now represents 86 percent of structural wood panel production, 80 percent of glulam production, 70 percent of I-joist, and 72 percent of laminated veneer lumber. These are all-time highs, Nyblad noted.

Nyblad credited APA leadership along with APA and Engineered Wood Technology Association members for sticking together during difficult times. That cohesiveness has meant more dues income as production volumes increase, which allows APA to provide services - such as certification, product promotion, mill safety promotion and regulatory challenge responsiveness - that benefit the entire industry.

APA's strong membership is also allowing the association to rebuild its staff, hold the line on dues, and even adopt a dues discount program for larger mills, Nyblad said.

Strength #2: A Focus on the Mission

Despite APA's diverse geography, its mix of companies large and small, and the

wide range of products manufactured by its members, the association has stayed true to APA's mission to develop and maintain markets through product promotion, quality assurance, and technical and educational support.

"We have maintained remarkable mutual understanding and agreement about our mission and the best ways to achieve it," said Nyblad.

Even when the board of trustees was faced with staff and program cuts at the height of the market meltdown, it remained true to APA's basic mission.

It's this interconnected, three-pronged focus on promotion, quality and education - rare in associations and effectively only exhibited in the wood products industry within APA - that is responsible for APA's successful market development efforts, Nyblad said.



APA Chairman Mary Jo Nyblad at the association's 2012 annual meeting.

APA's member advisory and product committees, made up of member company representatives across a wide range of disciplines, have provided grassroots support, counsel and expertise during the downturn; effectively making sure APA remains a truly member-driven organization. They "get down and dirty in the quality, technical, promotional, educational and financial trenches of our association" to provide an invaluable service to the entire membership, Nyblad said..

Strength #3: The Voice of the Industry

APA's third strength, Nyblad said, is its reputation as the voice of the structural panel and engineered wood products industry. That voice has continued to strengthen as membership has grown and APA has proven itself as a natural leader in industry-wide efforts to safeguard and build market demand for wood products.

This strength of voice has many practical benefits, Nyblad said; chief among them, APA's enhanced ability to attract and earmark outside funding for programs that advance the industry. Examples of such efforts include international market access and development, green building promotion and carbon footprint mitigation, wall sheathing performance research, nonresidential construction market research, and energy efficient wood wall system promotion and education.

APA has served as an industry organizing hub for dealing with such regulatory challenges as the weights and measures issue in California and other states, formaldehyde and other product emissions regulations, and energy conservation provisions under the International Energy Conservation Code that threaten wood systems' share of the residential wall market.

This latter ongoing challenge has resulted in the creation of the Coalition for Fair Energy Codes, an effort headed by APA's Field Services Director Tom Kositzky that is working to advance the fair and impartial treatment of all building products in the International Energy Conservation Code.



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A strong and growing membership, a focus on APA's mission and a continued role as the voice of the wood products industry are what will carry APA through the downturn and onward, said Nyblad.

"There finally seems to be light at the end of the recession tunnel," she said, "and your association is primed for better times. Now that we have survived, let's turn our attention and efforts to rebuilding, to strengthening our association, to

growing our markets, and to regaining levels of prosperity for which we have worked so hard." 

Sheila Cain (sheila.cain@apawood.org) is communications director of the Engineered Wood Technology Association and editor of its Engineered Wood Journal.

STRUCTURAL PANEL MARKETS STRENGTHENING

Housing Market Rebound Brings Welcome News

by Greg Lewis

EDITOR'S NOTE: This article is based on a presentation the author gave at the Second International Conference on Processing Technologies for the Forest and Bio-based Products Industries held last November in St. Simons Island, Ga.

The rebounding U.S. housing market is great news for North American wood products producers, including producers of OSB and softwood plywood. After five years with only brief upturns, notably an early-2010 run-up, North American structural panel producers saw significant and sustained improvement in 2012.

Improved housing starts, the prospects of further increases in construction activity in 2013-14, and product inventory levels that had been driven down to extremely low levels all contributed to the run-up in prices, which kept trending higher through the end of last year. The continued rebound in U.S. construction markets, improvement in other end-use markets, and a conservative restart/ramp-up of capacity will mean healthy structural panel markets over the next five years.

We expect North American OSB and softwood plywood demand will see healthy increases into the second half of the decade. This will be particularly true for OSB, which will be buoyed by double-digit growth in housing starts, the product's most important end-use market. We forecast U.S. conventional housing starts to total about 0.950 million units in 2013 and 1.25 million units in 2014 as very low new home inventories, substantial pent-up demand for housing, and strong demographics all contribute to healthy near- and medium-term improvement.

This outlook assumes a 1.5 million unit shadow inventory that will be worked off by 2015. Additionally, we expect the single-family share of total starts to bottom at 68 percent in 2013, then trend higher. There has been much discussion of an increase in the percentage of renters as opposed to homeowners. We agree with this assertion, but expect many of these renters will be of single-family homes.

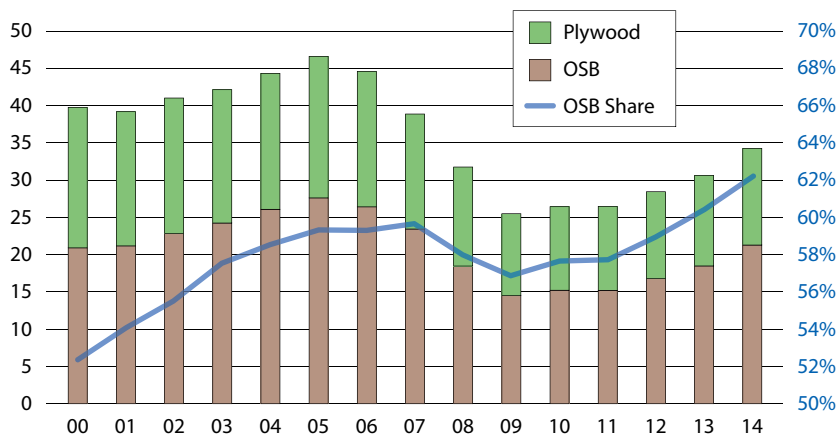
From 16.8 BSF in 2012, we expect North American OSB demand will improve to 21.3 BSF in 2014. Plywood demand will rebound as well. However, it will do so at a slower rate as its largest end-use market is industrial, which will improve at a slower pace than construction, having lost much of the new residential construction market to OSB over the past 20 years. North American plywood demand will increase from 11.7 BSF in 2012 to 13.0 BSF in 2014 (see graph).

As of the first quarter of 2013, we estimate that 25 percent of the North American OSB capacity base and 13 percent of the plywood capacity base remains idled due to the persistent imbalance between supply and demand, even with year-over-year improvement in U.S. consumption. As markets improve, capacity will come back on line, but our base forecast assumes a relatively conservative ramp-up of existing/idled capacity and new mills. In 2013, we expect about 1.1 BSF of OSB capacity to start up/restart, primarily in the southern U.S. Similarly, we assume a 700 MMSF increase in "effective" North American plywood capacity.

Much of the recent strength has stemmed from the extremely low inventory levels that pervaded the markets through much of last year and entering 2013. Facing a cyclical rebound in demand, buyers stepped up purchase volumes, though many were constrained by a reluctance to build significant inven-

North American Structural Panel Demand

BSF, 3/8-inch Basis



North American structural panel demand is predicted to increase in 2014.

tory for fear of a market downturn and by a lack of credit. Nevertheless, increases in effective capacity in 2012 were limited. Many operating facilities ran close to full capacity, especially late in the year, but idled mills remained down. Production was being consumed immediately, and volumes in the distribution channel remained very lean.

As capacity increases and production ramps up, we expect inventory levels will improve, easing the pressure on buyers looking to secure panels for the upcoming construction season. For both OSB and plywood, production costs will trend higher as increased production puts upward pressure on wood costs and an improving economy supports higher resin, energy, labor, and other manufacturing costs. A U.S./Canadian exchange around parity continues to hurt the Canadian competitive position. For OSB, it means a flat cost curve (FOB mill), in contrast to the early 2000s, when a very strong U.S. dollar kept local-currency Canadian costs significantly below U.S. costs.

For plywood, the exchange rate has meant average western Canadian plywood costs around the same as that in the western U.S. This shift has contributed to a reversal in net trade flows between the U.S. and Canada. During the housing boom, with the U.S. dollar very strong, annual net U.S. imports from Canada of softwood plywood peaked at about 425 MMSF in 2004-06. As U.S. domestic consumption plummeted and the USD/CAD exchange rate moved toward parity, Canadian plywood shipments to the U.S. dropped precipitously and U.S. shipments to Canada jumped. The result was a net Canadian import of almost 200 MMSF per year in 2010-12.


We expect net shipments to Canada will decline in 2013-14 as U.S. markets improve with the rebound in housing and other end-use markets, and Canadian housing markets retreat from their 2012 peak. Nevertheless, Canadian plywood producers will continue to feel pressure from U.S. shipments as the Canadian dollar remains strong. Additionally, later in the decade, log supply constraints in

British Columbia associated with the mountain pine beetle will bolster regional costs.

Offshore imports will rebound as domestic markets improve, although we do not expect volumes in the second half of decade to reach early-2000s levels as a weaker U.S. dollar (compared to the 2000s) and high transportation costs will slow the flow of imports. OSB imports will move up from essentially zero, where they've been for the past five years, to around 100 MMSF in 2014; still only a fraction of the total market. Plywood offshore imports, which bottomed at around 3 percent of total demand in 2012, will rebound to around 4.5 percent in 2014.

We do not expect offshore exports will significantly affect North American markets, particularly as domestic markets strengthen. Recent boosts to offshore exports (increased volumes to Asia in particular) will not persist and North American producers will not make significant inroads into the Chinese market during the cyclical upswing. This may

prove too pessimistic, but with much of the lumber currently used in China going into industrial end uses and concrete forming, we anticipate much of the panel volumes consumed in these end uses will be plywood, of which China is a significant producer.

On the whole, rising demand in relation to capacity will result in healthy profitability for North American producers, setting the stage for additional capacity investment later in the decade. In the case of OSB, we expect net increases in capacity. For plywood, our demand outlook does not warrant significant increases in net capacity, but we would expect considerable investment in existing facilities to upgrade production and increase value-added production. 

Greg Lewis is vice president of wood panels for Forest Economic Advisors LLC (www.getfea.com). He can be reached at glewis@getfea.com or 978-496-6335.



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The Engineered Wood Technology Association (EWTA), the related nonprofit supplier organization of APA - The Engineered Wood Association, serves as a networking and information transfer vehicle between North America's engineered wood product manufacturers and their product, equipment and service providers.

This membership directory, updated for 2013, includes company descriptions and contact information for all EWTA members. It's just one of many tools designed to help members connect with each other and the industry.

Membership Benefits

- Direct business-to-business links with your customers in the engineered wood products industry through such vehicles and events as Info Fair, an annual supplier show held in conjunction with the APA annual meeting; industry forums and seminars; APA annual meeting roundtables and workshops; company news and advertising in the *Engineered Wood Journal*; and dissemination of your company news and technology innovations via the EWTA website and *Connections* e-newsletter.
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Established in 1970's the Group is a world leader in the manufacture and supply of equipment and systems and its extensive production program is able to supply complete turnkey plants for the treatment and processing of fresh and recycled wood, both the wet and dry areas, for production and processing of particleboard, MDF, OSB, Plywood, Pellets, Pallet Blocks and pressed wood-based products in general. IMAL is a leading manufacturer of glue dosing and blending systems and supplies the most innovative on-line and laboratory quality control devices that are found in virtually all the production plants around the world.

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www.imalpal.com



IMEAS

IMEAS is a world leader in surface finishing solutions, with over 2,400 machines operating worldwide. Imeas sanding and grinding machines are used to achieve precise surface finish and thickness on a wide variety of products such as plywood, LVL, composite wood panels, decorative laminates, flooring, and solid surface products, etc. IMEAS specializes in extra wide machines - 10' (3.2 meter) and cross-belt sanding for wood products, and non-directional mirror finish for specialty steel products.

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Peachtree City, GA 30269

imeas@imeas.net

www.imeasinc.com



Itipack Systems

Itipack Systems has been in business since 1970. We are a manufacturer of automated strapping systems.

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Canada

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www.itipacksystems.com

JAX, Inc.

JAX is a full-line lubricant manufacturer with expertise in compounding high-end synthetic and petroleum lubricants. With over 55 years of industry experience, JAX has earned its reputation as a leader in lubricant technology. JAX lubricants are compounded with the finest raw materials and additive chemistry in the industry. Formulation decisions are based upon performance and quality which ultimately lead to substantial, verifiable cost savings in terms of extended machine life, reduced downtime and increased production. Lubrication technology is a continually evolving science. Products that have worked in the past may not be sufficient to provide adequate lubrication in the future. In order to meet the evolving needs of our customers we are constantly analyzing the JAX product line for opportunities to improve value. JAX is a manufacturer and global supplier of the highest quality LUBRICANTS for machinery and process.

Contact: Ted Schultz - Director OEM & National Accounts

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tjschultz@jax.com

www.jax.com



Kimwood Corporation

World's leading producer of new equipment and OEM parts for Kimwood Sanders, Hogs, and Handling Equipment, Stetson-Ross Planers and Moulders, Ferrari Resaws and Tri-State Equipment.

Contact: Mike Simmons - Sander Sales Manager
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77684 Highway 99 South
Cottage Grove, OR 97424
msimmons@kimwood.com
www.kimwood.com



KTC Panelboard Engineering

Complete engineering services for the engineered wood products industry.

Contact: Jan Karnik - V.P.
Phone: 604-592-3123
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Surrey, B.C. V3W 1E6 Canada
jan.karnik@panelboard.net
www.panelboard.net



LIMAB North America, Inc.

LIMAB provides laser measuring equipment for panel dimensions and blows.

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Charlotte, NC 28270
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www.limab.com



Matthews Marking Systems

Matthews Marking Systems, established in 1850, is a leading supplier of marking and coding equipment for the engineered wood and building products industries. Matthews supplies turnkey inkjet printing solutions, featuring APA approved inks, for a variety of applications including grade marking, nail patterns, and large format logo printing. Matthews also provides alternative marking technologies, such as laser and thermal transfer, to meet your specific application needs.

Contact: Donna Meade - Product Manager
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6515 Penn Avenue
Pittsburgh, PA 15206
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www.matthewsmarking.com



MEGTEC Systems, Inc.

MEGTEC Systems, Inc., announces the acquisition of TurboSonic Technologies, Inc. TurboSonic joins MEGTEC as MEGTEC TurboSonic Technologies, Inc., a wholly-owned subsidiary of MEGTEC Systems, Inc., with environmental solutions that now range from VOC abatement and energy recovery systems to particulate and acid gas control. MEGTEC supplies packaged clean air solutions that are proven to meet stringent emissions regulations: wet scrubbers for high efficiency particulate removal for dryers and press vents; WESPs for gas cleaning, and ultra-high efficiency RTO/RCO systems for VOC abatement. MEGTEC also provides upgrades, parts and service for every make of APC equipment for the engineered wood industry.

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mvanvonderen@megtec.com
www.megtec.com

Met-Pro Corporation

Protecting the environment through the combined resources and technologies of the Duall, Flex-Kleen, BioReaction, and Systems brands.

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Phone: 503-691-2100
20203 SW 95th Avenue
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mfoggia@met-pro.com
www.mpeas.com



Metriguard, Inc.

Metriguard designs and manufactures electronic and mechanical equipment for testing and grading wood products. Metriguard products are designed to measure the physical properties of structural dimension lumber, timber, particleboard, oriented strand board (OSB), plywood, and veneer for use in structural laminated veneer lumber (LVL) and other products. This equipment is used worldwide by sawmills, wood products companies and research facilities.

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Pullman, WA 99163
duskoski@metriguard.com
www.metriguard.com



Michelman

Michelman is a leading global developer of release agents for engineered wood panels. We also manufacture and market water-based barrier and functional coatings for flexible film packaging, paperboard, and corrugated cartons; and water-based surface modifiers, additives and polymers for numerous industries including wood and floor care, industrial coatings, inks, fibers, composites, and construction products. Michelman serves its multinational and regional customers with production facilities in the U.S., Europe and Singapore, and a worldwide network of highly trained field technical support personnel.

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Phone: 513-794-4251
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www.michelman.com

Mill Machinery, LLC.

Customer-driven Provider of New and Used Forest Products Industry Machinery. CUSTOMIZED SOLUTIONS: MMC specializes in new and re-engineered machinery, taking a forensic approach to each project, building to your specifications. Our inventory encompasses MDF, OSB, Veneer, LVL, Plywood and Particleboard industry sectors. LIQUIDATION SERVICES: MMC has the tools and custom approach to maximize the value of your surplus machinery. MAGNUM SAW SYSTEM: - Mill Machinery's Magnum Saw Corner and saw conversion utilizing Servo controls is a breakthrough in sawing high-end panels. The customized Magnum system increases sawline speed and accuracy by adjusting to varying panel sizes with one tap of the panel view screen.

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Molalla, OR 97038
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www.millmachinery.net



Momentive Specialty Chemicals Inc.

Momentive Specialty Chemicals Inc. is a leading global source for adhesives, resins, formaldehyde, melamine and derivatives, and UV-cure coatings serving a broad range of markets including the forest products, foundry, automotive, construction, composites, electronics and oilfield industries, operating more than 50 manufacturing plants in North America, Latin America, Europe and Asia/Pacific.

Contact: Dale Leeper - PF Technology Manager
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100 West Borden Drive
Diboll, TX 75941
dale.leeper@momentive.com
www.momentive.com

Nicholson Mfg. Ltd

Industry Leader in ring debarking technology since 1948.
Contact: Ron Hait - NA Capital Sales Manager
Phone: 250-656-3131
P.O. Box 2128
Sidney, BC V8L 3S6
Canada
forestsales@nmbc.com
www.debarking.com



Hurricane, WV

Nondestructive Inspection Service

Nondestructive Inspection Service (N.I.S.) was incorporated in 1960. Since that time we have taken preventative maintenance to higher levels of predictive maintenance while saving our customers costly unpredictable down time, on all types of process equipment along the entire production line. We are the established leader in applying our knowledge of NDT and perfecting inspection procedures to exceed industry standards. In the case of wood processing and construction board plants we have developed, tested, and implemented significant innovations on the standard inspection techniques, to shrink costly inspection downtime and overcome the issues of inspecting difficult-to-reach parts of the equipment.
Contact: Ed Hauldren - General Manager
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Hurricane, WV 25526
ed@nisformdt.com



Norjohn Limited

Norjohn Limited

Norjohn Limited - For over 35 years, Norjohn Limited has provided both wax and asphalt emulsions to a variety of industries and municipalities across Canada, the United States and Mexico. Our ongoing investment in research and development has resulted in the development of green, sustainable options for our customers.
Contact: Charles Stout - Business Development/ Tech Service
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9 Falconcrest Lane
Orchard Park, NY 14127
cstout@walkerind.com
www.walkerind.com

OCI Melamine

OCI Melamine (formerly DSM Melamine) is a melamine crystal supplier for use in resins with formaldehyde that are used for (among others) OSB, plywood, and other panels.
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Oconomowoc, WI 53066
Lee.Miller@OCInitrogen.com
www.ocimelamine.com



Pacific Fluid Systems, LLC

Solution provider in hydraulic systems and linear motion applications. Primary focus is on higher production and lowering operating costs for our clients. Our engineers and designers work with our clients to develop cost effective, energy efficient solutions, and enhanced documentation for machine positioning and controls. PFS offers full range of products from custom hydraulic manifolds to complete press conversions. Also provide a full line of electric actuators in lieu of hydraulic positioning systems.
Contact: Dan Wilson - Industrial Group Manager
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12990 SE Highway 212
Clackamas, OR 97015
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www.pacificfluid.com

Pallmann Industries, Inc.

For more than 100 years Pallmann has designed and built size reduction machinery. Specializing in high-capacity, high-performance stranders, flakers, refiners and mill utilized by the engineered panel board industries.
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Clifton, NJ 07012
info@pallmannindustries.com
www.pallmann.eu

Panel World Magazine / Hatton-Brown Publishers, Inc.

Panel World's international readership receives six issues per year, with emphasis on mill project startup articles. Product coverage includes softwood and hardwood plywood and veneer, oriented strand board, medium density fiberboard, particleboard and other composite boards and engineered wood products. Hatton-Brown publishes magazines for the Forest Products Industry, of which Panel World is one.
Contact: Rich Donnell - Editor
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www.panelworldmag.com

Paneltech Products

Paneltech Products is a young and growing, forward-thinking company comprised of people who have common values and share a common goal...providing environmentally responsible leadership in manufacturing the highest quality green products for industry. Our panel overlays are designed for high performance end uses and superior processability. They are designed to increase the value of the wood products they cover by increasing their durability, enhancing their appearance, and creating uniform surfaces to enhance the products end use.
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roniff@techline.com
www.paneltechintl.com

Paslode

Leading designer and manufacturer of cordless and pneumatic nailers, staplers and specially engineered fasteners designed to deliver superior wood fastening solutions to the residential construction industry; applications include framing, sheathing, roofing, siding and finishing applications.
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www.paslode.com



Permapost

Permapost provides custom pressure treating solutions for engineered wood products used throughout the U.S. and Asia.
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Pöyry Management Consulting

Whether you are developing a strategy, planning an acquisition, considering an investment project or improving your performance, Pöyry can help. We aim to improve your business prospects by applying the right mix of experience and outside-the-box thinking. We take an impartial stand based on a clear analytical framework and a solid working process. Through accessing our network of global offices, our experts are able to tap into long experience in collective forest industry knowledge. We provide consulting and advisory services at the strategic and operational level. Our clients benefit from our pragmatic implementation plans and solid execution.
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Oakville, ON L6J1H9
CANADA
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www.poyry.com

Purbond, Inc.

Purbond, Inc. is a joint venture of Henkel Corporation and Collano AG, and is a leading supplier of high performance moisture curing liquid polyurethane adhesives. PURBOND HB E line is the only 1 part PUR adhesive certified under ASNI 405-2008, including ASTM D7247 High Temperature, as well as passing E119 HRA testing. PURBOND HB E line offers excellent open time/set time ratios, ductile bond lines that significantly reduce glue line checking and are of neutral color, as well as containing no Formaldehyde or solvents. Henkel Corporation, with the acquisition of National Adhesive, is now the largest specialty chemical company in the world.

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Canada

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www.purbond.com



Raute Canada Ltd.

Raute is a technology company serving the wood products industry worldwide. It's core expertise lies in manufacturing processes for the plywood and LVL industries. Raute is the world market leader as a supplier of mill-wide projects, but can also supply individual process lines, line modernizations and equipment upgrades.

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CANADA

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www.raute.com



Samuel Strapping Systems

With over 50 years serving the lumber and forest products industry, Samuel Strapping Systems offers their customers in the engineered wood industry a single source supply for all of their strapping and packaging requirements. Samuel's product line includes steel and plastic strapping, pneumatic and manual hand tools, seals, edge protection, stretch-wrap, product identification equipment, and fully automated strapping systems. Our industry-leading VK-30 strapping head has been used in both new and retrofit applications to convert our customers from steel to polyester strapping. Samuel is a leader in strapping for engineered wood products, and had the first AAR approved polyester strapping.

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Woodridge, IL 60517

dgagnon@samuelstrapping.com

www.samuelstrapping.com



Scheuch, Inc.

For 50 years, Scheuch has been providing proven technology for emission controls in the wood based panel industry. Scheuch's services include the design and supply of dust collection systems and air pollution control systems for drier emissions such as biological scrubbers and wet electrostatic precipitators. The SENA wet ESP system embodies our extensive knowledge and understanding of particulate control with water treatment techniques to provide high efficiency, system cleanliness and ease of operation. Scheuch also offers a complete range of dry electrostatic precipitators for flue gas cleaning for biomass fired energy systems.

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Canada

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www.scheuch.ca



Siempelkamp

Siempelkamp Limited Partnership

The Siempelkamp Group of Companies are world leaders in the supply, installation and startup of equipment and complete production plants for the manufacture of wood based panel products, energy systems, dryer systems, panel handling and finishing systems.

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www.siempelkamp-usa.com



Signode, an ITW Company

Signode is a multinational manufacturer of steel and plastic strapping, stretch film, pressure sensitive carton sealing tape and application equipment and accessory products for industrial packaging.

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500 West Fourth Street

Winston-Salem, NC 27101

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www.signode.com



Spar-Tek, Inc.

Spar-Tek Industries manufactures high quality machinery with the latest cutting edge technology for many industries including Plywood, LVL, Rubber and others. Today's high volume plywood production lay-up lines place an emphasis on efficiency. spar-tek's lay-up lines, hot and cold presses, loading and unloading equipment, glue application systems and other equipment are designed to meet these demands. Helping customers meet and exceed their production and operating goals is a driving force at Spar-Tek. We are here to help you meet your goals and to do so requires innovative technology and machines designed to work at the highest operating speeds.

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Portland, OR 97217

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www.spar-tek.com

Standex Engraving Group

Standex Engraving manufactures engraved steel press plates, embossing machinery and engraved molds. Their staff of designers and engineers specializes in the creation of customized, life like, user-friendly textures for a variety of wood based products.

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www.standexengraving.com

Stantec

Stantec (formerly NGM International) has been providing composite panel plant engineering for over 30 years. The Composite Panel Group is located in Fredericton, NB and is supported by local Stantec offices throughout North America. Stantec provides engineering services and consulting services for both greenfield and retrofit projects, and can help improve productivity and reduce operating costs from wood yard through finishing.

Contact: Tony Hamill - Sector Lead Composite Panel Products

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www.stantec.com

Steinemann Technology USA

Steinemann Technology offers comprehensive sanding solutions with machines, sanding paper, 24 hour technical expertise and support, and a large inventory of spare parts in our Charlotte, NC facility.

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Phone: 704-522-9435

4607 Dwight Evans Road

Charlotte, NC 28217

sanding@steinemannusa.com

www.steinemannusa.com



Stratachem Solutions Group LP

Chemical Solutions, leading edge comprehensive approach to resolving process problems relating to the wood products industry. Advanced Systems Controls integrated with well qualified research and development and over 45 years of solving process efficiency and chemical issues, productivity bottlenecks and or simply reducing process costs.

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www.stratachemsolutions.com



Sweed Machinery

Since 1957, Sweed Machinery's Panel Handling and Dryer Support Equipment has helped make great veneer dryers BETTER by achieving higher production goals with less downtime! Known for its proven material handling solutions, latest technology, quality craftsmanship, unmatched customer service and excellent after-sale support, Sweed offers new technology that runs at greater capacity with the same labor at no additional fuel or overhead cost, helping mills conquer the challenges facing the industry today. Sweed is also prominent in recycling equipment serving many industries. Since 1956, Sweed's dependable choppers provide simple solutions for eliminating manufacturing by-products like wire, blades and plastic or steel banding. Sweed scrap choppers are the manufacturer's choppers of choice!

Contact: Charlie Smith - Material Handling Equipment Representative
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Gold Hill, OR 97525
sweed@sweed.com
www.sweed.com/panel/

Systems Contracting Corp.

Systems Contracting is a well-rounded construction firm with experience in industrial, municipal and commercial construction markets. We are a self-perform direct-hire contractor in all major disciplines. We view each project with each customer as an opportunity to build trust, showcase our expertise, knowledge and dedication to customer service and secure opportunities to perform future projects. Our customers are never viewed as "one time" customers, which is why we are very frequently given the opportunity of repeat business and are called upon to perform complex projects throughout the world due to our customer's willingness to always give us the highest recommendations.

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pphillips@tsg.bz
www.tsg.bz

Temple-Inland

Temple-Inland produces and supplies quality veneer to the engineered wood products industry.
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303 South Temple Drive
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patpatranella@templeinland.com
www.templeinland.com

TIP The Industry Pivot, Ltd.

TIP - The Industry Pivot Ltd, is a research and development company operating in a number of industries. After more than six years of research and testing, TIP now offers innovative systems for the engineered wood industry. The systems are exclusively produced and distributed by Coil Manufacturing. The systems allow a significant cost savings and better board qualities in the production of OSB boards.
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www.the-industry-pivot.com



Top Wood Jobs

Top Wood Jobs supplies recruiting, staffing and consulting services for the wood products industries for full or part time assignments. Top Wood Jobs can provide experienced industrial plant staffing, engineering, construction and equipment supplier personnel for Plywood, OSB, LVL, I-Joist, Glulam, Engineered Wood Products, Biomass Energy, Furniture, Flooring, Pulp and Paper, OSB, MDF, Particleboard, Hardboard, Laminating, Lumber, Cabinets, WPC, and Wood Pellets. We can help you with your immediate staffing needs for those hard to locate candidates or for your projects no matter how large or small the project may be. Top Wood Jobs is a Human Resource for Human Resources.

Contact: George Meek - Recruiter/Consultant
Phone: 541-954-8456
PO Box 4
La Center, WA 98629
geo@TopWoodJobs.com
www.TopWoodJobs.com

TSI

TSI designs and manufactures complete panel finishing lines for OSB, particleboard and MDF with saws including such features as rapid position change, adjustable blade exposure and scoring blades. High-speed stacking of panels is easily achievable with TSI's proprietary "primary stacker" approach, with proven success in the highest capacity plants. TSI also supplies Heat Energy and Drying Systems for OSB and Particleboard based on Single Pass Recycle technology. The Dryers are proven to increase productivity and reduce emissions compared to other systems. Moisture control is very good and conditioning of strands for OSB can help reduce resin consumption.

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University of Tennessee, Center for Renewable Carbon

The Center for Renewable Carbon is a state-of-art research facility at The University of Tennessee. The CRC has eight faculty conducting research on sustainable biomaterials and bioenergy. The CRC has offices, classrooms, and laboratories. The laboratories include new capabilities for sustainable biomaterials preprocessing, pretreatment research, thermochemical and biochemical conversion, and product analysis. Also, unique analytical capabilities for sustainable biomaterials are available through a recently established partnership with Perkin-Elmer Life Sciences. The CRC offers graduate degrees in conjunction with the forestry, chemical engineering, and chemistry departments. The CRC provides world-class industry training programs in statistical process control and design of experiments.

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www.spcforwood.com

US Borax Inc.

Manufacturer of borate based wood preservatives and flame retardants.
Contact: Mark Manning - Global Manager, Preservation
Phone: 303-713-5228
8051 East Maplewood Avenue
Greenwood Village, CO 80111
mark.manning@riotinto.com
www.borax.com



USNR

USNR manufactures complete plywood machinery lines including Coe brand lathes, computerized chargers, core drives, tray systems, dryers, stacking systems, lay-up lines and presses. USNR also supplies machinery for beam lamination, finger-jointing and presses for the composite board industry. We are committed to providing superior customer service and support throughout the operational life of your equipment.

Contact: Tim Fisher - Veneer/Panel Business Development
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tim.fisher@usnr.com
www.usnr.com



Valspar Corporation

With a wide range of products and technologies, Valspar is the leader in the Wood Coatings Industry for the Building Products market. Helping our customers succeed for when it matters most.

Contact: John McKenzie - National Sales Manager - Building Products
Phone: 336-802-4704
1717 English Road
High Point, NC 27262
warnold@Valspar.com
www.valspar.com

Venango Machine Company, Inc.

Venango Machine and our sister company, Custom Engineering, are complete platen services provider to the forest products industry. We provide new platens for every make of press in the industry for manufacturing of all board products. Our product line includes small specialty platens for lab applications, intermediate sized platens for particle board, OSB, and LVL in both multiple platen and continuous processes. We also provides complete platen-refurbishing programs that include flow and pressure testing, weld repair and re-machining to original specifications. Our technicians also provide assistance in platen change outs and in-press weld repair. Please contact us for all your platen requirements. Contact: Nyla Vogel - Sales Manager
Phone: 814-739-2211
P.O. Box 239
Wattsburg, PA 16442
nvogel@venangomachine.com
www.venangomachine.com

Veneer Services, LLC

We build profitable machine solutions based upon better engineering. We take pride in the fact that our machines run reliably with minimum operating costs - yielding you the greatest efficiency and profits. Every prototype machine ever built is running today. We were the first and still the only company to build a voice activated veneer bundle grading line. We developed the most accurate debarker/planer system ever built and then we built a fully automated butt flare reducer to go with it. Our veneer chipper is proven to use less energy and produce better chips. Our veneer machine rebuilds have allowed our customers to improve profits while saving them as much as 50% over the price of a new machine. Contact: Dane Floyd - President and CEO
Phone: 317-346-0711
1457 Sunday Drive
Indianapolis, IN 46217
dane@veneerservices.com
www.veneerservices.com



Ventek, Inc.

Ventek utilizes cutting-edge machine vision technology to design and manufacture automated process controls for the veneer and plywood industry. We provide vision-based scanning systems for both green and dry veneer, in-line moisture detection, and robotic systems for automation of veneer plug patching and panel repairs, along with complete green and dry veneer stacking lines. Ventek, founded in 1991, has fast become the industry standard in vision technology and one of the leading suppliers of such equipment in North America. We are proud to have been honored as the APA/EWTA's Supplier of the Year in 2007, 2008, 2010 and 2011. Contact: Rodger Van Voorhis - President
Phone: 541-344-5578
4030 West 1st Avenue, Suite 100
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www.ventek-inc.com

Viking Chains, Inc.

The Viking Chains Group is a manufacturer and distributor of standard and special industrial conveyor and roller chains and related products. Contact: Cliff Lane - President
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Delta, BC V4G 1A1
Canada
clane@vikingchains.com
www.vikingchains.com



Westmill Industries, Ltd.

Since 1975, WESTMILL has emerged as North America's leading Dryer Specialist. Warehouses in Eugene OR, Atlanta GA, and Vancouver BC; WESTMILL has parts to service and supply all makes and models of dryers. Build new, remodel or refurbish your JET or LONGITUDINAL dryer, "thermally efficient & high production, WESTMILL does it... with payback." A Westmill dryer evaluation provides effective options to reduce energy consumption, increase production and improve wood quality. In 2010 LightSORT™ Green Veneer Moisture Measurement received the APA/EWTA "Innovator of the year" award for a new technology or product providing substantial benefit to the company's bottom line. Ask WESTMILL for your LightSORT™ demonstration today! Contact: Mike Crondahl - President, Owner
Phone: 604-607-7010
3063 - 275A Street
Aldergrove, BC V4W 3L4
Canada
crondahl@westmill.com
www.westmill.com



Willamette Valley Company

Willamette Valley Company manufactures epoxies, putties and urethanes for upgrading of all wood substrates, as well as custom making a wide range of water based coatings, sealers and primers. Pretec, our Equipment Division specializes in the design and manufacture of advanced fluid management systems and the integration of robotic application systems. Performance Products Division manufactures Polyureas, caulks and sealants. Contact: Tony Vuksich - Vice President
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WPS Industries Group

The WPS Industries Group is a unique collection of companies, each with specialized skills for its use in turnkey projects for Engineered Wood mills. Our capabilities include: Project Management, Process and System Consulting, Engineering and Design, Manufacturing, Construction and Installation, PCL Programming, and R & D. Contact: Jeremy Clark - VP Projects & Operations
Phone: 318-812-2800
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FORMALDEHYDE: JUST THE FACTS

The Basics Behind this 'Building Block' Chemical

by Mark A. Gruenwald

More than 150 years ago, a discovery made by Russian scientist Alexander Butlerov forever advanced the way we live and how we live. Butlerov's discovery, followed by findings that formaldehyde can act as an antiseptic, propelled formaldehyde into the forefront of medicine. Continuing studies revealed more favorable properties, bringing the chemistry of formaldehyde into mainstream production. Today, formaldehyde is found in products ranging from building materials to pharmaceuticals.

With such a long history of use coupled with its omnipresence in our natural environment, most would believe that formaldehyde has stood the test of time because of its safety and efficacy. However, formaldehyde is one of those "building block" chemicals that continue

to attract ongoing regulatory attention. More than 30 years of research has focused on characterizing the safety of formaldehyde. Today scientists have much greater knowledge of where and how both internal and inhaled formaldehyde are distributed at the molecular level. Yet most of this new knowledge has not been applied in assessments of formaldehyde risk by key regulatory authorities. It is imperative that high quality "Mode of Action" (MOA) data, such as recent molecular distribution studies, be brought into the risk assessment process. This article will provide an update on key aspects of that characterization and illustrate how effective product stewardship and risk management measures by government and industry have lowered risk to a level of insignificance.

General Facts about Formaldehyde

Formaldehyde is natural and widespread in nature. It can be found in every living system - from plants to animals to humans - all which actually produce formaldehyde as a normal part of metabolism. Formaldehyde occurs as a by-product of all combustion processes. It's produced in the smoke from burning wood, combustion engine exhaust and cooking. Of the total atmospheric formaldehyde in the world, 70 to 90 percent comes from mobile sources (e.g., automobiles), power generation and combustion. Only a very small amount is the result of emissions from wood products. Formaldehyde does not accumulate in the environment or within plants and animals. It metabolizes quickly and breaks down readily in the body and in the atmosphere, making it "greener" than one might think. Formaldehyde is one of the most extensively studied chemicals in use today. Its health and safety properties have been researched in depth, and the evidence is reassuring that current standards and safeguards are protective and have resulted in plummeting exposure rates.

The Manufacture, Properties and Use of Formaldehyde

Formaldehyde is produced by passing vaporized methanol and air over a catalyst. The formaldehyde vapors are absorbed into water to produce aqueous solutions. All formaldehyde solutions contain some amount of methanol. Low methanol formaldehyde solutions typically contain between 0.2 percent and 1.5 percent methanol by weight due to the incomplete conversion of methanol.

Formaldehyde is a colorless gas with a distinct pungent odor that can be detected by most people at low levels, with the odor threshold typically ranging from



Structural engineered wood product formaldehyde emissions are so low that the products are effectively exempt from the California Air Resources Board (CARB) Air Toxic Control Measure.

0.5 to 1 ppm. As with the detection of any odor, some individuals may be more sensitive to the odor of formaldehyde than others. Formaldehyde is very soluble in water, alcohols, ether and acetone.

It is a critical ingredient in thousands of items that shape our everyday lives. Formaldehyde is used as a chemical intermediate in the production of engineered structural wood, plywood, particleboard, adhesives, abrasive materials, insulation, certain wood adhesives, lubricants and some controlled-release fertilizers. In smaller quantities, formaldehyde is used for the preservation and embalming of bodies and biological specimens. It is also used in some permanent-press fabrics. Formaldehyde plays the role of a germicide, insecticide, and fungicide in some cosmetics such as

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mascara, cuticle softeners, nail creams and shaving cream, as well as personal hygiene products such as soaps, shampoos, deodorants, sunscreens, lotions and mouthwashes.

Formaldehyde in Engineered Wood Applications

Engineered wood products are high-performance and sustainable building products such as oriented strand board (OSB), I-joists and glue laminated beams. The majority of structural wood panels and other engineered wood products are manufactured with high-performance

ACC Forms Formaldehyde Panel

The American Chemistry Council formed the Formaldehyde Panel in June 2010 to represent the producers, suppliers and users of formaldehyde products, as well as trade associations representing key formaldehyde applications. The panel's primary activities include advocacy, research and marketplace outreach.

To learn more about formaldehyde's use in the building and construction industry, ACC's Formaldehyde Panel developed a video to highlight how many of the advancements in construction materials and methods may not exist without the chemistry of formaldehyde. To watch the video and learn more about formaldehyde, please visit www.formaldehydefacts.org.

adhesives based on formaldehyde chemistry. These adhesives are designed to have extremely low formaldehyde emissions. These emissions are similar, or lower than, the formaldehyde emissions from raw wood.

Phenolic formaldehyde adhesives have been the technology of choice for wood panel adhesives for the last 70 years. These resins are thermosetting; meaning that once cured, they cannot be softened by heating. They are extremely resistant to water and will not break down in the presence of moisture. The resins used in engineered wood manufacturing are designed to completely cure during the hot pressing operation. Once the resin is cured in the board production process, tests show the panel is virtually free of any residual phenol or formaldehyde.

Agencies' Opinions on Formaldehyde

Formaldehyde is biodegradable and does not persist in the atmosphere. When released to water, formaldehyde biodegrades to low levels in a few days. Even so, disagreement regarding the potential connection between formaldehyde exposure and cancer risk persists.

Although the International Agency for Research on Cancer (IARC) has classified formaldehyde as “carcinogenic to humans,” these determinations have been criticized with respect to their methodology and conclusions. The decision by IARC (which was not unanimous), particularly concerning an association with leukemia, has been seriously questioned.

The preliminary determination regarding cancer risks reached by EPA in

the June 2010 proposed Integrated Risk Information System (IRIS) assessment of formaldehyde has been criticized on numerous grounds by scientists from other government agencies. In particular, available data cannot explain how a chemical such as formaldehyde, which is naturally present in the body and which does not reach distant sites in the body following inhalation, would be capable of causing leukemia.

The EPA/IRIS assessment of formaldehyde was critically reviewed by a committee from the National Academy of Sciences/National Research Council (NAS/NRC 2011), which found numerous flaws in the document. The NAS is the “gold standard” of science established in 1863 by President Lincoln to “investigate, examine, experiment and report upon any subject of science.” This review concluded that the EPA/IRIS assessment failed to support an association between formaldehyde exposure and leukemia or other health problems. In particular, the NAS/NRC committee rebuked the EPA's assessment and methods in reaching its conclusions on formaldehyde.

Most significantly, the National Research Council found insufficient evidence and a biased approach to the EPA's claim that formaldehyde causes leukemia and cancer in the respiratory tract:

“Conclusions appear to be based on a subjective view of the overall data, and the absence of a causal framework for these cancers is particularly problematic given the inconsistencies in the epidemiologic data, the weak animal data and lack of mechanistic data.”

It is expected that the entire document and draft conclusions will be extensively reviewed and modified, given the numerous criticisms and methodological issues concerning the EPA's formaldehyde IRIS assessment as identified in the NAS/NRC review. That said, it is not clear when the EPA expects to release another draft of their assessment for public comment and peer review, but it could occur as early as the end of 2013.

The National Toxicology Program (NTP 2011) has evaluated the carcino-

genic potential of formaldehyde, and this evaluation contains many of the same methodological and interpretive flaws that plagued the earlier EPA/IRIS assessment of formaldehyde. Both review processes examined and analyzed the same scientific studies. Despite the fact that the NRC report on the criticism of the draft formaldehyde IRIS assessment was available before the finalization of the NTP review, it appears the NTP ignored the significant findings by the Academy. Industry representatives expressed their

problems with this inconsistency openly in a public statement and writing to Congressional leaders that:

"By failing to sufficiently reflect the conclusions of the NAS, and by producing a contradictory report, the 12th RoC has created potential for public confusion and alarm."

Without acknowledging the methodological and interpretive flaws, the 12th Report on Carcinogens (RoC) issued in 2011 listed formaldehyde as a known human carcinogen for NPC, sinonasal cancer and leukemia. Given the continuing controversy surrounding the data and the lack of solid scientific review processes upon which formaldehyde is classified as a human carcinogen (particularly for leukemia), a bi-partisan Congressional directive mandated another NAS Committee to review the scientific basis and rationale for the RoC listing. This review begins this month with a final report likely by the end of 2014.

Risk Management and Product Stewardship

Levels of formaldehyde in the workplace have declined over the past few decades due to improved manufacturing practices and advances in resin chemistry. Significant reductions have been made to emissions levels in the workplace, in ambient air and in indoor air. Exposure to formaldehyde in the workplace is subject to a number of established limits. For example, the Occupational Safety and Health Administration (OSHA) established the OSHA Formaldehyde Standard (29CFR 1900.1048) that sets limits on worker exposure at 0.75 ppm time weighted average for eight hours and 2 ppm within a 15-minute time frame.

Good stewardship, better manufacturing technologies and regulatory oversight have resulted in declining formaldehyde emissions in the indoor environment during past decades. A 2005 study of homes around the nation showed an average of 17 ppb, which is well under The World Health Organization indoor air guideline value of 100 ppb.

National and international regulations require that wood products have low formaldehyde emissions. The California Air Resources Board (CARB) Air Toxic

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Control Measure and the federal Formaldehyde Standards for Composite Wood Products Act of 2010 apply to interior use products, such as hardwood plywood, medium density fiberboard and particle-board. Formaldehyde-based chemistries are providing viable solutions to these challenges.

Structural products used in the construction of a building's frame have low formaldehyde levels and therefore are often exempt from emission requirements. Based on the extensive amount of data, there is widespread recognition that when the chemistry of formaldehyde is handled and used in accordance with government and industry regulations, standards and guidelines, formaldehyde is safe for its intended uses and consumers and workers are appropriately protected. The U.S. forests products industry supports and complies with these established standards.

Formaldehyde: A Proven Track Record of Performance, Safety and Stewardship

The formaldehyde industry has a long history of commitment to research and stewardship of its products based on objective, fact-based science. Formaldehyde and derivative resins and adhesives are used in a wide range of industrial applications. Formaldehyde is a versatile and valuable material with applications that enhance the quality of modern life.

Formaldehyde-based chemistries remain the technology of choice because of their proven performance, safety and cost-effective attributes. As responsible product stewards, North American manufacturers of formaldehyde-based adhesives and other chemical products are committed to continuous improvement, product enhancements and further formaldehyde research that support good public health policy and economic growth.^{aw}

Mark A. Gruenwald, C.I.H., is corporate director, scientific affairs, for Momentive Specialty Chemicals Inc. He can be reached at mark.gruenwald@momentive.com or 614-225-3459.



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EWTA'S INFO FAIR

Celebrating 20 Years of the Supplier Showcase

by Sheila Cain

When EWTA held its first Info Fair two decades ago, 19 exhibitors were in attendance. Members such as Raute, HB Fuller (now Adalis) and Coe (now USNR) distributed brochures and displayed their wares from bulky laptops and small TVs with VHS tape decks.

While the technology has changed, the enthusiasm remains among Info Fair exhibitors as it prepares to celebrate its 20th anniversary show this year. (The 2001 Info Fair was cancelled as a result of travel difficulties in the wake of the September 11 terrorist attacks.) The benefits EWTA - and APA - members enjoy are just as relevant today as they were at the event's inception.

Started in 1993, the EWTA Info Fair has been a vital component of APA's annual meeting. With a set-up similar to a trade show, participants have booth space where they can display products and literature. The fair is open three evenings during the annual meeting's run, each accompanied by a welcome reception.

Here's where Info Fair's resemblance to a typical trade show ends. While most



trade shows are open to a wide range of guests, EWTA's Info Fair welcomes EWTA and APA members and staff exclusively. Attendees visit exhibitors to reconnect with colleagues and - perhaps most importantly - forge business relationships that can result in long-term, lucrative partnerships.

"Info Fair is much more than a social gathering, although we're proud that our members look forward to reconnecting with old friends every year," said Terry Kerwood, managing director of EWTA. "Beyond that, it's an excellent opportunity for members to make connections with some of the most influential people in the industry."

It's also very different from most trade shows, where exhibitors stand behind booths for hours at a time, said Melinda Lilley, EWTA's member services director, who has coordinated every EWTA Info Fair since the first one in Tucson, Ariz.

"Our members get the most out of Info Fair by not only showcasing their products and services, but also by visiting the booths of their colleagues and visiting with APA members," Lilley said. "Info Fair allows folks to get to know one another."

"Focused time to socialize"

The Info Fair exhibition area is open during the APA Annual Meeting receptions to give both APA and EWTA members focused time to network and make connections. While the show hours may seem short, Info Fair organizers have learned from past experiences that synchronizing exhibition time with APA's meeting schedule is the way to go.

"At the first Info Fair, we kept the exhibits open during our committee meetings and the exhibition hall was like an empty bowling alley," said Marilyn



EWTA members gather for the annual Info Fair event last November at APA's annual meeting in Amelia Island, Fla. For more 2012 Info Fair photos, visit EWTA's Facebook page at www.facebook.com/EwtaInfoFair, then click on the "Photos" tab.

Thompson, who helped spearhead the first Info Fair and is currently APA's marketing communications director.

"No one came to see our exhibits when other meetings were going on. Now, I think most people who have participated in Info Fair realize that quality time is better than quantity."

Info Fair gives EWTA members an alternative audience, allowing them to connect with a different type of decision maker than they usually pursue.

"APA's annual meeting is attended by high-level executives and decision makers with the association's member companies," said Thompson. "These are not always the individuals suppliers would see on a typical sales call. It's proven to be a really good place for suppliers to establish visibility with executives from the manufacturers."

The networking works both ways.

"I know that many of the (APA) manufacturing executives really appreciate the support and participation of the exhibitors," Thompson said. "They are genuinely interested in visiting EWTA member booths and seeing what suppliers have to show."

APA President Dennis Hardman agrees.

"EWTA and Info Fair, over the years, have become an integral and respected part of the APA Annual Meeting," said Hardman. "I've seen a real sense of partnership build between APA members and EWTA members, demonstrated by a mutual understanding that future business success depends on the strength of that partnership."

Staying Connected

EWTA Advisory Committee member and long-time Info Fair exhibitor Paul Pfeifer, account manager with Ohio-based Ashland Performance Materials, looks forward to Info Fair every year because it's a chance for him to catch up with the folks he's gotten to know over the years.

"It keeps everyone up to speed and in the game," said Pfeifer. "We can all commiserate when times are bad and brag a little bit when the industry is doing well."

Info Fair is also a good place to make meaningful business connections.

Info Fair Through the Years

EWTA's Info Fair has traveled the country during its first 20 years. Here's where we've been:

- 1993:** Tucson, Ariz.
- 1994:** San Antonio, Texas
- 1995:** Rancho Mirage, Calif.
- 1996:** Orlando, Fla.
- 1997:** Scottsdale, Ariz.
- 1998:** Hilton Head, S.C.
- 1999:** Tucson, Ariz.
- 2000:** San Antonio, Texas
- 2001:** Cancelled due to 9/11 terrorist attacks
- 2002:** Orlando, Fla.
- 2003:** San Diego, Calif.
- 2004:** Naples, Fla.
- 2005:** Tucson, Ariz.
- 2006:** San Antonio, Texas
- 2007:** Indian Wells, Calif.
- 2008:** Henderson, Nevada
- 2009:** Amelia Island, Fla.
- 2010:** Tucson, Ariz.
- 2011:** New Orleans, La.
- 2012:** Amelia Island, Fla.
- 2013:** Huntington Beach, Calif.



A: H.B. Fuller Co. (now Adalis) was one of the EWTA members to exhibit at the first Info Fair in 1993.



Coe's booth at an early Info Fair was hosted by Gene Knokey (left) and Alan Knokey, now with USNR.



John Nalley, far right, hosted the Durand-Raute booth at EWTA's inaugural Info Fair.



Georgia-Pacific Chemicals (formerly GP Resins) is a long-time EWTA Info Fair exhibitor. Past booth hosts included Curtis Otjen, Roger Reeves, Dan DiCarlo and Milt Kintzley.



Dyno Overlays' (now Arclin) booth in 1993 was hosted by, from left to right, Jeff Parker, Steve Phillips, Paul Stephens and Jerry Scheid.

"It's a once-a-year opportunity to catch up with a lot of the high-level management personnel and decision makers in companies we deal with and would like to deal with," Pfeifer said.

Join Us!

Info Fair 2013 Scheduled for West Coast

Info Fair joins APA for its 2013 annual meeting Nov. 2-4 at the Hyatt Regency Huntington Beach (Calif.) Resort and Spa. Registration opens April 1. The early bird registration deadline is Aug. 23.

Exhibit fees are \$975 for an 8 ft x 8 ft booth. Annual meeting fees are a separate registration fee of about \$500 for members.

Contact Melinda Lilley to register and learn more about sponsorship and exhibit opportunities: melinda.lilley@apawood.org.

Info Fair isn't just a place for long-standing members to reconnect with colleagues. New member and first-time exhibitor Idemitsu Lubricants America found Info Fair to be a good place to introduce itself to the marketplace.

"We've been in the panel industry for six or seven years, but we have kind of a low name recognition in the market," said Ryan Stanton, national accounts engineer for the Japan-based lubricant manufacturer's Detroit sales office. "We were looking for a way to get our name out there and get a feel for what's going on in the market."


Stanton appreciated the show's size.

"It's not a giant show, so when you're meeting with people it's a little more intimate," he said. "You get to know people better and quicker than at a show with 5,000 vendors."

To help new exhibitors make the most of their participation at Info Fair, EWTA teams them up with veteran exhibitors who help show them the ropes and

introduce them to other EWTA and APA member company representatives.

While Info Fair attendance has grown since its debut in 1993 (last year, nearly 50 members exhibited), the general schedule has changed very little. EWTA members still participate in APA's golf tournament, cripple coot shoot and tennis tournament, and they are honored by their peers at APA's awards dinner for their participation in EWTA's Supplier and Innovation awards program.

"It's a formula that's worked for 20 years," said Lilley. "We have members that I know will be at every Info Fair, no matter what. They look forward to seeing and reconnecting with colleagues and associates - many of whom have become close friends over the years." 

Sheila Cain (sheila.cain@apawood.org) is communications director of the Engineered Wood Technology Association and editor of its Engineered Wood Journal.



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EWTA'S INNOVATION AND SUPPLIER AWARDS OVERVIEW

Deadlines Near; Many Ways to Get Involved

by Sheila Cain

EWTA sponsors two awards programs every year to honor the hard work and ingenuity of its members. It's easy to get involved, and the payoff is priceless. Winners are honored at the APA annual meeting each fall and featured in the fall issue of the *Engineered Wood Journal*. This year, EWTA is offering a new value-added tool: press release templates that winning companies can send out to newspapers, business publications and trade magazines throughout the industry.

Here's a rundown of EWTA's two awards programs and how to get involved.

Innovation of the Year

Eligible innovations recognize a new technology or product shown to provide a substantial bottom line benefit to APA members. Past winners have included USNR for its six-deck jet dryer - the largest jet dryer ever installed for the southern pine industry; and Momen



EWTA members celebrated their Innovation and Supplier Awards at the APA annual meeting last fall. Winning companies and projects are honored during a ceremony at the Chairman's Dinner. From left, Terry Kerwood, EWTA; Ken Winder, Ventek; Tom Temple, Potlatch Corp.; Trott Hunt, Hunt Guillot & Associates; Alan Weaver, Momen; and Alan Knokey, USNR. Temple, who is vice chairman of APA, presented the awards.

At a Glance:

SUPPLIER AND INNOVATION AWARDS DEADLINES

- April 15 -** Innovation Award submissions forms sent to EWTA members
- June 30 -** Completed Innovation Award submissions due to EWTA
- July 15 -** Innovation and Supplier of the Year ballots sent to APA members
- Aug. 1 -** Votes due back from APA members.

Specialty Chemicals for its high performance brand of liquid phenolic resin.

EWTA members will receive submission forms via email in mid April. Any member who wants to enter the contest fills out the form and emails it back. Once received by EWTA, the entries are posted to the EWTA website and submitted by ballot to APA members, who select the winner.

Supplier of the Year

APA mill managers take the lead in this awards program. EWTA will send ballots in mid July to all APA member mill managers (see timeline in sidebar box), who decide which EWTA member firm best meets the quality, delivery and

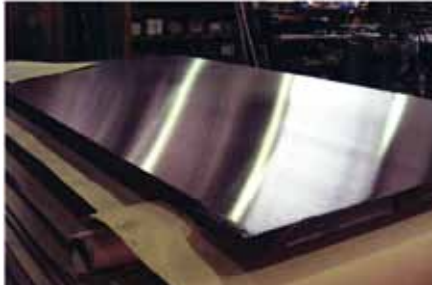
service criteria. Awards are given in each of EWTA's three membership categories: equipment/tooling, materials/supplies and consulting/services.

Like the Innovation of the Year award, the Supplier of the Year awards are chosen by APA members. Winners are identified by popular vote. All EWTA members are automatically included on the ballot, and winning companies are honored at the APA annual meeting and in the fall *Engineered Wood Journal*.^{awj}

Sheila Cain (sheila.cain@apawood.org) is communications director of the Engineered Wood Technology Association and editor of its Engineered Wood Journal.



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Allyn Ford Presented With Bronson J. Lewis Award

Allyn C. Ford, president and CEO of Roseburg Forest Products, was named the 2012 winner of APA's prestigious Bronson J. Lewis Award. The award, established to recognize individuals for their leadership and outstanding contribution to the engineered wood products industry, was presented to Ford during APA's annual meeting general session last November in Amelia Island, Fla.

Ford has served as president and CEO of Roseburg Forest Products since 1997, assuming the role after the death of his father, founder Kenneth Ford. Before becoming president he served in various roles within the company, including forest resources, construction, manufacturing and labor relations. He holds a Bachelor of Science degree from Yale

and a Masters of Business Administration from Stanford University.

In presenting the award to Allyn Ford and his wife, Cheryl Ramberg Ford, APA Chairman Mary Jo Nyblad noted that the Fords participate in and support numerous charitable and business organizations, including the University of Oregon and Oregon State University. She quoted OSU President Ed Ray who, in acknowledging a \$5 million endowment for the dean's position at OSU's College of Forestry, said, "This visionary gift from Allyn and Cheryl Ford illustrates that in tough economic times smart people redouble efforts to preserve the path to excellence. Their investment assures that the college will have outstanding leadership for the next century and beyond."



Allyn C. Ford, APA member and president of Roseburg Forest Products, accepted the 2012 Bronson J. Lewis Award from APA Chairman Mary Jo Nyblad, right, during the APA annual meeting last November. He is joined on stage by his wife, Cheryl.

APA's BJ Yeh Honored With ASTM Merit Award

APA Technical Services Director Borjen "BJ" Yeh, PhD., has been named a recipient of the 2013 ASTM International Award of Merit. Yeh is one of only 15 such recipients awarded



this honor since it was established 64 years ago. The award is the highest award granted by the Society to an individual member for distinguished service and outstanding participation in ASTM International committee activities. Merit Award recipients also receive the honorary title of Fellow of ASTM International.

"We congratulate BJ on this outstanding achievement and join ASTM in recognizing the leadership and tremendous volume of work that he has brought to the ongoing mission of developing and maintaining sound international standards," said APA President Dennis Hardman.

ASTM International is a globally recognized leader in the development and delivery of international voluntary consensus standards. Today, some 12,000 ASTM standards are used around the world to improve product quality, enhance safety, facilitate market access and trade and build consumer confidence.

Yeh has been with APA for 23 years, serving as director of the Technical Services Division since 2003. He is currently the chair of the ASTM D07.02 Subcommittee on Lumber and Engineered Wood Products and member of several technical committees and professional societies in the U.S. and Canada. He is the secretariat for ANSI/APA Standards Committees on Structural Insulated Panels, Engineered Wood Siding, Engineered Wood Rim Boards and Cross Laminated Timber. He was the recipient of the L.J. Markwardt Award from ASTM in 2006.

Member Meetings To Precede Symposium

The EWTA Spring Advisory Committee meeting will be held April 2 in conjunction with the APA- and Washington State

University-hosted International Wood Composites Symposium in downtown Seattle April 3-4.

The symposium, featuring APA President Dennis Hardman as a keynote speaker, will include information on the latest developments in fiber, particle and strand composites; plywood, veneer and engineered wood products; and wood-polymer composite materials. It will be preceded by an APA Plywood Forum and reception on April 2 at 1 p.m. The EWTA meeting is scheduled for 10:30 a.m. More information on the symposium can be found on the event's website (www.woodsymposium.wsu.edu/).

All events will be held at the Red Lion.

APA Welcomes Five OSB Mills; One Glulam Facility

Five Weyerhaeuser Company OSB mills recently joined APA, effective Jan. 1. The mills are in Heaters (Sutton), W.V.; Simsboro (Arcadia), La.; Edson, Alberta; Elkin, N.C.; and Grayling, Michigan. The company's Hudson Bay, Saskatchewan mill was already a member.

"The addition of these mills is a huge vote of confidence by Weyerhaeuser," said APA President Dennis Hardman. "We look forward to bringing the full value of APA services to them and welcome their participation in our association activities and advisory committees."

APA also recently welcomed Boise Cascade's glulam manufacturing facility in Homedale, Idaho, into membership. The commitment from the former Filler King glulam plant brings Boise's membership in APA to 100 percent.

"Boise Cascade's full commitment to APA marks a major milestone for our representation of I-joist and structural composite lumber products," Hardman commented. "We now represent more than 70 percent of and Canadian production of these products and 80 percent of glulam production, providing critical mass in all APA product categories for the first time in our history."

Three Boise Cascade engineered wood products facilities joined APA in January of this year. They are located in Lena, La.; White City, Ore.; and St. Jacques, New Brunswick.

APA, CFEC Submit Code Change Proposals

APA recently submitted a total of 36 code change proposals to the International Residential Code (IRC) on behalf of the wood structural panel and engineered wood product industries.

Several APA change proposals are related to wood bracing walls that were developed through collaboration with a group of building officials and International Code Council staff. The proposed changes would clarify the code requirements for wall bracing or better position APA members' products in the code. The proposals are currently under public review.

A vote by the International Residential Code Building Committee is expected after the Committee Action Hearings, which will be held April 21-30 in Dallas. The final approval of code change proposals will be determined at the Public Comment Hearings October 2-10, 2013 in Atlanta City, N.J.

In addition to the changes submitted by APA, the Coalition for Fair Energy Codes (CFEC) drafted and submitted 11 code change proposals to the 2015 International Energy Conservation Code. Eight of the proposals were for residential and three for commercial/multifamily construction.

Established in 2011, CFEC is an unincorporated group of companies and associations that is advancing the fair and impartial treatment of all building products in the International Energy Conservation Code. CFEC is headed by the director of APA's field services division, Tom Kositzky.

APA, ICC ES Finalize Joint Reports Agreement

APA and the International Code Council's Evaluation Service (ICC ES) recently signed an agreement to offer joint ICC ES and APA reports for engineered wood products.

The goal is to provide manufacturers with an efficient way to apply for technical evaluations with each organization and receive a joint ICC ES evaluation report (ESR) and APA Product Report. ICC-ES and APA will designate a single point of contact for the applicant who will serve as the project manager. The assigned project manager will coordinate all arrangements and paperwork between ICC ES, APA and the applicant, simplifying and expediting the process for the applicant.

The agreement eliminates duplication of efforts between the ICC ES ESR and APA Product Reports, said APA Technical Services Director BJ Yeh.

The joint reports will serve as an alternative to the current product evaluation system being used by many engineered wood product manufacturers. Under that system, manufacturers' products are evaluated separately by ICC ES and APA, and individual ICC ES ESR and APA Product Reports are issued.

APA Names Three To Board of Trustees

Three APA member company representatives were recently elected to the association's Board of Trustees.

Cathy Slater, vice president, OSB Business, at Weyerhaeuser Company, has joined the board in a new position approved by APA's board.

Jim Baskerville, vice president OSB and Kraft Paper at Tolko Industries, assumes the board position previously held by Brad Thorlakson of Tolko.

Dave DeWitte, president, CEO of Pacific Woodtech Corp., has been elected to fill the board position previously held by Mike St. John of Pacific Woodtech.

APA Testing Confirms Panels as Nailable Sheathing

Recent full-scale wind tunnel tests have confirmed that the principle of engineering mechanics can be used to estimate the structural behavior of cladding connections when using wood structural panels as nailable sheathing.

The testing, funded by EWTA and the USDA Forest Products Laboratory, was conducted by APA at the Insurance Institute for Business & Home Safety (IBHS) Research Center in Chester County, S.C. In collaboration with the research center, a 30-ft by 40-ft single story building was constructed with a wall height of eight ft and subject to wind tunnel tests of various wind angles and speeds.

The study results are being used to support an APA code change proposal to the 2015 International Residential Code (IRC). If approved, the code change will help building designers and builders in using wood structural panels as nailable sheathing for resisting wind loads, especially when it is impractical to connect the cladding directly to framing.

MEGTEC Systems Acquires TurboSonic Technologies

MEGTEC Systems Inc. recently announced that it has acquired TurboSonic Technologies Inc. The acquisition will include all of TurboSonic's current products, including wet electrostatic precipitator systems, semi-dry and wet scrubbers and evaporative gas cooling systems; as well as related parts and services.

Turbo Sonic will join the MEGTEC family as MEGTEC TurboSonic Technol-

ogies Inc., and operate as a wholly owned subsidiary of MEGTEC Systems and as a separate business unit within MEGTEC's Environment, Climate and Energy group.

The transaction brings together two companies serving common end-markets, allowing for a broader range of product and service offerings to their expanded customer base, the companies said in a joint press release.

Dieffenbacher and Carmanah Sign Cooperation Agreement

Dieffenbacher and Carmanah Design and Manufacturing recently signed a cooperation agreement for the supply of disc and ring stranding systems to engineered wood customers outside North America.

The cooperation agreement will cover Europe, Asia, Australia, New Zealand and South America.

"We are extremely pleased with this agreement as it allows the companies to work closely together to offer customers an integrated and optimized solution for

the woodroom requirements," said Dieffenbacher and Carmanah representatives in a press release.

Announced OSB Restarts Signal Producer Optimism

A number of OSB mills have announced that they are restarting operations following improvements in the U.S. housing markets and increased customer demand.

Louisiana-Pacific plans to restart its Thomasville, Ala., mill in April, and Norbord recently announced it will bring its Jefferson, Texas, OSB mill back online

by the middle of this year. Ainsworth's mill in High Level, Alberta, is expected to restart in the fourth quarter of this year, and the first quarter of 2014 should see a reopening of Tolko Industries' Athabasca mill in Slave Lake, Alberta. Arbec restarted its OSB mill in Miramichi, New Brunswick, last December.

Georgia-Pacific opened a new OSB mill in Clarendon, S.C. in February.

Electronic Wood Systems Develops New Blow Detectors

Electronic Wood Systems recently introduced three blow detection systems based on ultrasonic inspection for the panelboard industry.

The three systems are Ply-Scan, which is designed for plywood inspection; Blow-Scan for use with particleboard, MDF and OSB production lines; and Ultra-Scan for application on panels and LVL up to six inches thick.

Data from all these systems can feed intelligent production management systems like Siempelkamp Prod-IQ, which generates transparency of the production process including quality prognosis, the company said.

EWTA Welcomes Four New Member Companies

Four new members have joined EWTA since last fall. They are:

- **Scheuch Inc.**, a provider of technology for emission controls in the wood based panel industry. Scheuch's services include the design and supply of dust collection systems and air pollution control systems for drier emissions such as biological scrubbers and wet electrostatic precipitators.

- **Systems Contracting**, part of the The Systems Group, is a construction firm with experience in industrial, municipal and commercial construction markets. The firm is a self-performing, direct-hire contractor in all major disciplines.

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- **IES** manufactures a full line of SonicAire fans to eliminate the problems with combustible dust.

- **IMAL Inc.** is a manufacturer and supplier of systems and equipment for the treatment and processing of particle-board, MDF, OSB, plywood and pressed wood-based products in general.

USNR Supplies RoyOMartin With Six-Deck Veneer Dryer

USNR recently supplied a six-deck veneer dryer for RoyOMartin's Chopin, La., facility. This is the second six-deck dryer and fourth Coe dryer purchased by the company. It replaces the last of the European dryers furnished when the plant was built.

All four dryers are equipped with the energy-saving and exhaust-limiting

Automatic Dryer Exhaust Control (ADEC) system. Since its first Coe dryer installation in 2007, this dryer feature has significantly lowered the plant's energy and exhaust treatment cost.

Like its recently installed predecessor, this latest six-deck dryer was erected fully and then towed into place. Towing the fully-erected dryer into location reduces the outage time required when dismantling an existing dryer and erecting a new dryer on the old dryer foundation. USNR won EWTA's 2012 Innovation Award award for the innovative installation of its six-deck veneer dryer.

The combined capacity of both 6-deck dryers will be more than double the combined capacity of the earlier installed 18-section 4-deck (2007) and 20-section 4-deck (2009) dryers.

Plum Creek Timber Names New President

Plum Creek Timber Company recently announced that Tom Lindquist, executive vice president and chief operating officer, has been named president of the company.

Rick Holley, Plum Creek's president and chief executive officer since 1994, will continue to serve as CEO.

Lindquist began his career at Plum Creek in 2001 as executive vice president overseeing the company's real estate segment and later, its timberlands and manufacturing businesses. Lindquist has served as executive vice president and chief operating officer since 2007.



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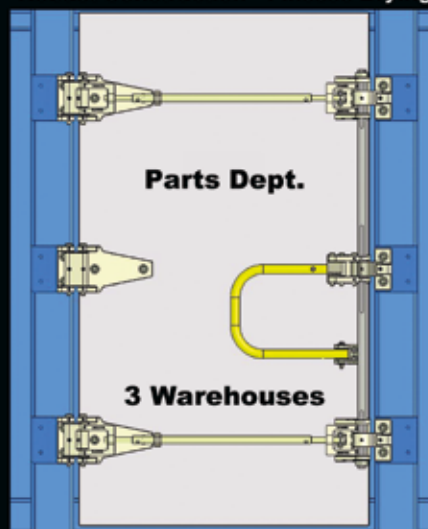
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- 3-4** APA/Washington State University International Wood Composites Symposium, Seattle, Wash., www.woodsymposium.wsu.edu
- 17-19** International Wood Products Association Annual Convention, Vancouver, B.C., www.iwpawood.org

MAY

- 5-7** Composite Panel Association 2013 Spring Meeting, San Diego, Calif., www.compositepanel.org
- 6-10** LIGNA: World Fair for the Forestry and Wood Industries, Hannover, Germany, www.ligna.de
- 9** PwC Global Forest & Paper Industry Conference, Vancouver, B.C., www.pwc.com
- 19-21** Hardwood Plywood and Veneer Association Spring Conference, Napa, Calif., www.hpva.org

JUNE

- 4-7** Southern Forest Products Association Annual Meeting and Forest Products Machinery and Equipment Exposition, Atlanta, Ga., www.sfpaexpo.com
- 9-11** Forest Products Society and Society of Wood Science and Technology's 67th Annual FPS International Convention and 56th SWST International Convention, Austin, Texas, www.forestprod.org
- 20-22** American Institute of Architects Annual Convention, Denver, Colo., www.aia.org

SEPTEMBER

- 24-27** Forest Products Laboratory, 18th International Nondestructive Testing and Evaluation of Wood Symposium, Madison, Wis., www.fpl.fs.fed.us
- 29-10/1** Composite Panel Association 2013 Fall Meeting, Baltimore, Md., www.compositepanel.org

OCTOBER

- 7-9** RISI North American Forest Products Conference, San Diego, Calif., www.risiinfo.com/events
- 9-11** International Conference on Wood Adhesives, Toronto, Ontario, www.forestprod.org
- 23-24** North American Wholesale Lumber Association, 2013 Traders Market, Las Vegas, Nev., www.nawla.org

NOVEMBER

- 2-4** APA Annual Meeting/EWTA Info Fair, Huntington Beach, Calif., www.apawood.org/

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