# ENGINEEREDWOOD SPRING 2019 LOUVENACE





### NEW U.S. FORMALDEHYDE REGULATIONS

How is the Industry Responding?

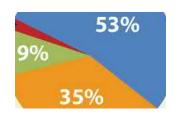
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# CAN YOU HEAR ME NOW?

APA Finds New Ways to Break Through Marketing Noise

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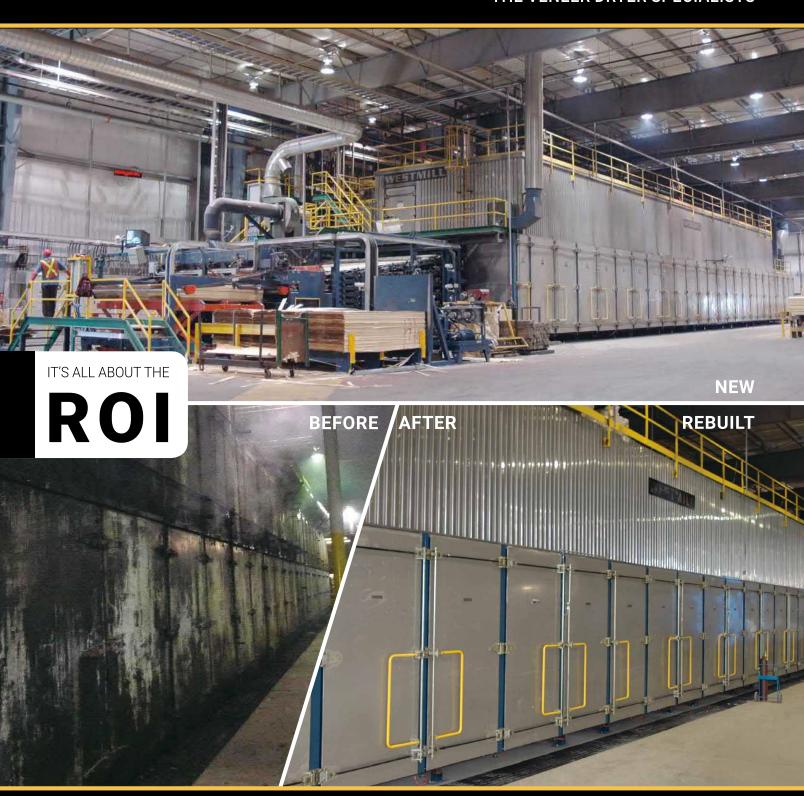
# MORE OF THE SAME IN 2019?

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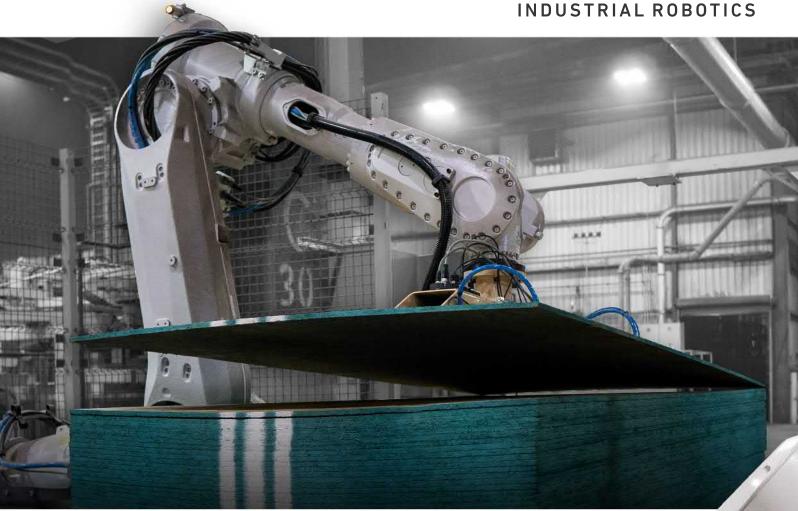
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### ENGINEERED WOOD JOURNAL

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### **About the Cover:**

APA's \$4.5 million lab renovation, opening this spring, will greatly expand the association's assembly testing capabilities. See story and more photos, page 28.



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### In this issue...

It seems like yesterday that the housing market took a tumble and single-family housing starts hit bottom at 500,000. It was actually a decade ago, but memories are long when it involves the crash of a marketplace that affected so many in the engineered wood products industry.

Now, as we start 2019, the marketplace is starting to again look uncertain. Federal census reports are showing new and existing home sales are on a downward trend compared to the strength of recent years, impacted by, among other things, an increase in mortgage rates and a lack of supply. Outlook among industry suppliers is remaining, for the most part, positive in the face of this news: the *Engineered Wood Journal's* annual Business Outlook Survey showed that while fewer EWTA members felt "more" optimistic about 2019 than they were last year about 2018, a large percentage – 81 percent – are at least "the same" or "more" optimistic than they were at this time last year.

The *Journal* recently sat down with APA President Ed Elias and APA Director of Market Research Joe Elling to discuss the state of the industry, and while the year ahead may bring challenges, there's also plenty to look forward to.

"As the marketplace slows, APA is taking this opportunity to develop tools and education to position our members to be ready for the next peak," says Elias. This preparedness is taking shape in an increasing number of webinars and videos on building techniques produced by APA staff, as well as APA Builder Tips and case studies in PDF format designed to provide comprehensive information in an easily digestible digital format.

This digital information, which builders and designers can access and download via APA's website, is in response to the changing ways people want to receive informational content. In this issue, Chanel Studebaker, APA's advertising, public relations and social media specialist, details how the association has kept up with the times. One surprising statistic: when APA's website launched in 1998, it garnered 3,000 visitors a month. In 2018, more than 50,000 users visited APA's family of websites, where they were able to watch videos and download information on a staggering number of topics.

Read more about APA's digital offerings in Studebaker's story, "Can You Hear Me Now?" starting on page 16.

Chaila Cain

Editor, *The Engineered Wood Journal* scain@engineeredwood.org

### **APA Bronson J. Lewis Award Goes to Mary Jo Nyblad**

Mary Jo Nyblad, former APA Board of Trustees member, EWTA Advisory Committee member, and retired vice-president of commodity sales and transportation at Boise Cascade, was the 2018 recipient of the Bronson J. Lewis Award at APA's Annual Meeting in San Antonio, Texas, last fall. The award recognizes individuals for their leadership and outstanding contribution to the engineered wood industry. It is dedicated to the late Bronson Lewis, who served for 24 years as secretary and then executive vice president of APA.

Nyblad spent her 35-year career in the wood products industry promoting the use of wood in building structures. At Boise Cascade, she held various sales and marketing leadership positions in structural panel sales, commodity lumber sales, particleboard sales and wood products transportation. She most recently served as the vice-president of commodity sales and transportation.

Nyblad was an active member of many industry associations, including the North American Wholesale



Mary Jo Nyblad, center, with wife Colleen Lambertz, receives the Bronson J. Lewis Award from 2018 APA Board Chairman Jim Baskerville.

Lumber Association and the Pacific Northwest Association of Rail Shippers. At APA, she served as chairman and vice-chairman of the Board of Trustees, as well as chairman of the APA Finance Committee and Marketing Advisory Committee. For EWTA, she served as chairman of the association's Advisory Committee.

### Three New Trustees Join APA Board

Three new trustees have been elected to the APA Board of Trustees, filling vacancies created by retirements and new executive assignments.

Mark Dubois-Phillips, senior vice president, Sales, Marketing and Logistics for Norbord, has extensive management experience in the forest products and energy sectors. Before joining Norbord, he spent 14 years at International Forest Products Ltd. (Interfor).

Roy O. Martin III is president, CEO and CFO of Martin Sustainable Resources LLC, Martin Timberlands LLC

and Marco LLC. He also is the director and co-founder of Indigo Minerals LLC, a Houston-based oil and natural gas exploration company.

Allan Bradshaw, vice president of engineering for Weyerhaeuser, oversees a team of engineers responsible for planning and construction of capital projects for Weyerhaeuser's 34 mill systems, enhancement of existing manufacturing technology and oversight of proprietary product code reports and quality control.

Trustees leaving the APA board include Bruce Alexander, Norbord; Jonathan Martin, Martin Sustainable Resources LLC; and Adrian Blocker, Weyerhaeuser.

### Boise Cascade Acquires Arling Lumber

Boise Cascade announced an agreement to acquire Arling Lumber, headquartered in Cincinnati, Ohio. Arling is a third generation, family-owned and operated wholesale distributor of lumber, plywood, OSB and engineered wood products.

Boise Cascade has been a supplier to Arling Lumber for more than 45 years.

### In Memoriam

### L. Clary Anthony, Sr.

L. Clary Anthony, former president and CEO of APA member company Anthony Forest Products of El Dorado, Ark., died Sept. 20,



2018, at the age L. Clary Anthony, Sr. of 93 in Shreveport, La. Mr. Anthony was born Oct. 1, 1924, in Hopeville, Ark. He enjoyed hunting, golfing and spending time with family. He served in the Navy and also served as chairman of the Southern Forest Products Association in 1993. Mr. Anthony is survived by his wife of 19 years, Frankie Sayers Anthony; son Luther

"Mark" C. Anthony Jr. and wife Sharon of Atlanta, Texas; daughter Lynda J. Anthony of Shreveport, La.; seven granddaughters and many nieces and nephews. He was also preceded in death by a wife, June Henderson Anthony, his parents, four brothers and two sisters.

### William A. "Bill" Baker

Bill Baker, an APA employee who worked in the association's Technical Services Division, died October 25, 2018. He was 78. Mr. Baker was born in Seattle on Dec. 29, 1939. He earned his professional engineering degree from the University of Washington, and his early employment included a job with Weyerhaeuser. He later designed airplane components for

Boeing before moving to Tacoma, Wash., and joining the team at APA. Mr. Baker is survived by his wife of 35 years, Gracie Baker; his sister Bonnie O'Neil; his son, William T. Baker; and his daughters Karen Baker, Kelley Jean Baker, and Jennifer Jensen.

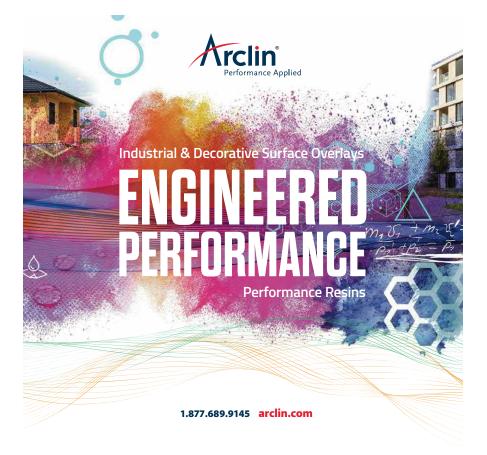
### **Kenneth Wayne Eeds**

Kenneth Wayne Eeds, 67, died Sept. 6, 2018, in Roseburg, Ore. He was born Dec. 11, 1950, in Lebanon, Ore. Mr. Eeds worked at APA as a Quality Auditor, retiring from the association in 2010 after 33 years. He is survived by his wife, Cheryl, of 46 years, and daughters Mandy Eeds of South Carolina and Megan Jewell of Roseburg.

## CPA 2019 Leadership Team Takes Office

The Composite Panel Association, a trade association that represents the North American composite panel and decorative servicing industries, has named new members of its board as it undertakes the development of a new five-year strategic plan.

Jim Buffington of Roseburg Forest Products will serve as the 2019 CPA Board chairman, Pat Aldred of GP Wood Products as vice-chairman, and David Smith of Timber Products as secretary/ treasurer. Louis Brassard of Tafisa Canada completed his term as CPA chairman at the end of 2018 and now serves as immediate past chairman.



# **NEW U.S. REGULATIONS**

How is the Industry Responding?

by Sheila Cain

ormaldehyde - particularly that emitted from composite wood products - has long been a topic of conversation in building circles. and discussions have intensified since new national emissions regulations took effect last June. While not all facets of the industry are affected (structural plywood, OSB and structural engineered wood products such as I-joists, laminated veneer lumber and glued-laminated timber are exempt), the regulations are still on the radar of wood product manufacturers, suppliers and industry associations across the board. Many have been preparing for these new rules for years.

### **About formaldehyde**

Formaldehyde is an organic compound found naturally in wood and organic products. It is also used in certain wood adhesives. While the general consensus is that low levels of formaldehyde are harmless, high levels may cause serious health issues. Formaldehyde can cause a number of symptoms at high levels, including itchy eyes, bloody nose, sore throat, and a persistent cough. If exposure to high concentrations are long-term, formaldehyde may also increase a person's risk of developing cancer.

The California Air Resources Board (CARB) developed regulations regarding formaldehyde levels in composite wood products more than 10 years ago, which applied to panels and finished products sold in California. The wood industry and several nongovernmental organizations sought and supported U.S. legislation for a national regulation that would be compatible with the CARB regulation.

CARB's Air Toxic Control Measure (ATCM) for Composite Wood Products became the foundational guide for the U.S Environmental Protection Agency's regulations, which now apply nationwide. The regulations focus on the emissions from nonstructural panels like particle-

board, medium density fiberboard and decorative hardwood plywood.

President Barack Obama signed The Formaldehyde Standards for Composite Wood Products Act in 2010, instructed the EPA to develop and implement the regulations and gave the industry several years to comply. The first major implementation date was June 1, 2018, which is when composite wood products sold, supplied, offered for sale or imported into the U.S. were required to be certified as compliant with either the EPA TSCA Title VI or CARB ATCM Phase II regulations (see sidebar, What Wood Products are Exempt and Why?). The next milestone was just last month, on March 22, 2019. From that date forward, all regulated products must be EPA TSCA Title VI compliant (instead of just one of the two options).

### **Industry Input: CPA**

The Composite Panel Association has participated heavily in the formaldehyde regulations discussion. Founded in 1960, CPA represents the North American composite panel industry on technical, regulatory, quality assurance and product acceptance issues. CPA general members include 30 of the leading manufacturers of particleboard and medium density fiberboard products subject to the EPA's emissions requirements. Its members represent more than 92 percent of the total manufacturing capacity in the U.S., Canada and Mexico.

CPA sponsors ANSI standards related to particleboard, MDF, hardboard, engineered wood siding and engineered wood trim, as well as CPA's Eco-Certified Composite sustainability standard and certification program, which addresses product emissions and imposes stringent and verifiable requirements. On a federal level, the association partnered with the Sierra Club, the United Steel workers and others to propose and draft

# Canada Working to (Hopefully) Create U.S.-Compatible Regulations

While the U.S. wood products industry is addressing the U.S Environmental Protection Agency's nationwide regulations, our neighbors to the north are working to draft similar regulations for Canada.

Health Canada is taking the lead in writing formaldehyde regulations governing composite wood products, with input from a number of industries on both sides of the border. For example, APA – The Engineered Wood Association is working with the Canadian Wood Council (CWC), the CPA and the Forest Products Association of Canada (FPAC) to encourage Canada to adopt regulations that are compatible with TSCA Title VI. Industry associations are "very closely following the Canadian formaldehyde regulatory process and are providing technical support and comment when requested," says Jackson Morrill, CPA president, with the goal of seeing final regulation that mirrors TSCA Title VI.

A draft version of Canada's regulatory proposal is expected to be released this spring.

### What Wood Products are Exempt and Why?

Structural plywood, OSB and other wood structural panels, as well as other structural engineered wood products, such as wood I-joists, laminated veneer lumber and glued-laminated timber are not included in the scope of the CARB and EPA formaldehyde regulations. These wood products are manufactured for uses such as construction applications and are governed by product standards and building codes requiring they be manufactured with moisture-resistant adhesives only. The structural engineered wood products have low formaldehyde emission levels. That, and the fact that they are used mainly for construction, led CARB and the EPA to exempt them from the scope of wood composite panels as defined in the regulations.

Dealers and distributors can identify exempted structural engineered wood products by the presence of the APA trademark or other agency marks showing compliance to structural standards such as PS 1, PS 2 and ANSI A190. In some cases, APA member mills may supply structural products with no stamp on the product. For those unstamped structural engineered wood products, APA has provided documentation on the scope of production by the APA member mills relative to TSCA VI and CARB.

APA technical literature is available and can be down-loaded from APA's website at www.apawood.org (search for APA Technical Note J330).

bipartisan federal legislation to establish the national standard for formaldehyde emissions from composite panel products signed into law by President Obama. The legislation was supported by industry, labor, health care and environmental groups, and it required the EPA to issue implementing regulations.

CPA has been at the forefront of product emissions for decades; well before CARB issued its Air Toxic Control Measure for Composite Wood Products requirements. CPA formed and led the California Wood Industries Coalition (CWIC) which advocated for six years. Comprised of a diverse group of national and state organizations, CPA formed and led the coalition, which was the primary industry intervener with the CARB on its emissions rules. The association has written several articles for the trade press, spoken at industry trade group meetings, given webinars and even published a pamphlet on TSCA Title VI compliance.

Members were prepared for the recent regulatory changes, says Jackson Morrill, CPA president. North American manufacturers invested millions of dollars in technology upgrades to manufacturing processes and third-party verification systems to ensure their products were compliant with California's stringent standard.

"Thanks to these extensive efforts, CPA's North American member companies were very much ready to meet the TSCA Title VI requirements once finalized, as they were patterned off of California's standard," Morrill says.

CPA is also committed to working closely with the EPA to encourage strong regulatory enforcement that ensures a level playing field for all product manufacturers using composite wood, whether made in the U.S. or imported. Unfortunately, not all importers have made the same universal commitment.

"This not only impacts consumers, but it creates a significant competitive disadvantage for North American manufacturers, who have made major investments, technology upgrades and supported third-party certification to ensure compliance with these high standards," says Morrill. "Importers that skirt these standards gain a competitive advantage by not incurring these costs."

### **Industry input: DHA**

The Decorative Hardwoods Association (formerly the Hardwood Plywood and Veneer Association) represents members whose products must comply with the formaldehyde standards. The DHA was founded in 1921 and represents the hardwood plywood, hardwood veneer, and engineered hardwood flooring industries. According to its website, DHA members produce 90 percent of the hardwood

CARB's Air Toxic Control Measure for Composite Wood Products (ATCM) became the foundational guide for the U.S Environmental Protection Agency's regulations, which now apply nationwide. plywood stock panels and hardwood veneer manufactured in North America.

In a press release the association issued last summer after the formaldehyde standards officially took effect nationwide, DHA President Kip Howlett says that all his association's members are compliant with TSCA Title VI, and most are classified as exempt because their emission levels are so low. Sixty-five percent of DHA members manufacture with formaldehyde-free adhesives, he says.

The DHA has been active in supporting regulatory actions against imports of hardwood plywood product from China, much of which is suspected to contain formaldehyde and is not compliant with TSCA Title VI. In 2016, the Coalition for Fair Trade of Hardwood Plywood, of which the DHA is a member, formally filed a petition with the U.S. Department of Commerce and the U.S. International Trade Commission, asserting that such imports were being sold into the U.S. at "dumped prices" below cost to gain an unfair competitive advantage and circumvent formaldehyde emissions requirements. Last September, the Department of Commerce announced that it would initiate an inquiry into such practices.

### **APA's Efforts**

Members of APA - The Engineered Wood Association are exclusively manufacturers of structural engineered wood products, which are exempt from the composite wood formaldehyde emission regulations. Even so, APA leaders continue to support CPA, DHA and industry coalitions that advocate for rational assessment of formaldehyde emission risks. The implementation of formaldehyde emission regulations applicable to composite wood products raise marketplace questions, some of which impact APA member products. APA staff develop tools to educate specifiers about structural engineered wood products.

"When fully implemented, the EPA's regulation will be the world's toughest production standard for formaldehyde emissions from composite wood panels."

Jackson Morrill, President Composite Panel Association





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### Recently Released Study Shows Low Doses of Formaldehyde not Cancer-causing

A study released earlier this year by researchers at the University of North Carolina Gillings School of Global Public Health examines the cancer-causing potential of inhaled formaldehyde in doses most likely to be experienced by humans, finding that the risk of developing cancer is significantly lower than expected previously.

Kun Lu, PhD, associate professor in the Department of Environmental Sciences and Engineering, led the study, "Evaluation of Inhaled Low Dose Formaldehyde Induced DNA adducts and DNA-protein cross-links by Liquid Chromatography-Tandem Mass Spectrometry," published Jan. 30 in the medical journal, Archives of Toxicology.

The research team exposed rats to varying levels of formaldehyde — up to 300 parts per billion – for six hours a day for 28 days by nasal inhalation, then examined their DNA. They found that formaldehyde exposure at this level did not cause detectable levels of DNA damage.

The results may be used to determine what levels of formaldehyde are carcinogenic to what degree, and how likely those doses are to increase cancer risk.

"The study provides important data for regulatory agencies and health organizations to improve cancer risk assessment of formaldehyde at low doses," Lu says.

### **EWTA Member Involvement**

Several Engineered Wood Technology Association (EWTA) members manufacture adhesives that are used in the composite wood panel industry, and they have been active in the regulations discussions as well.

Hexion Inc., for example, supplies resins and adhesives to the panel board market, and has long been an advocate of science addressing issues regarding formaldehyde. In addition, Hexion has taken a leadership role in product stewardship over the years to reduce formaldehyde emissions from wood products.

The company has fully supported the effective implementation of TSCA Title VI, and believes that doing so will create a uniform standard that will level the playing field and ensure that all in the forest products industry would be held to the same standard, regardless of where they are located or marketing their products.

"We firmly believe that today's existing formaldehyde-based resin systems – which meet or exceed all governmental emission standards – are safe and proven," says Mark Alness, Hexion's senior vice president. "Our goal as a resin producer is to offer our customers resin systems that provide cost-effective, reliable and proven performance, while meeting all regulatory requirements."

Hexion was ahead of regulations when it introduced a resign technology

called EcoBind 10 years ago, says Mark Gruenwald, Hexion's corporate director, scientific affairs. This enabled panel board manufacturers to meet stringent standards before they were enacted by regulatory agencies.

## "The world's toughest production standard"

While TSCA Title VI requirements are stringent, the North American industry has made the mill investments and technical modifications to gain compliance and, as a whole, looks forward to a

uniformly regulated marketplace that can now focus on compliance.

"When fully implemented," says CPA's Morrill, "the EPA's regulation will be the world's toughest production standard for formaldehyde emissions from composite wood panels."

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



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# **CAN YOU HEAR ME NOW?**

APA Finds New Ways to Break Through Marketing Noise

by Chanel Studebaker

hen APA – The Engineered Wood Association first established roots in the Pacific Northwest as the Douglas Fir Plywood Association in 1933, social media, mobile phones, websites, webinars and YouTube videos probably seemed like concepts more suited to Aldous Huxley's fictional Brave New World.

Back then, most Americans got their news from two sources: radio or newspaper. An advertiser could buy a spot on a prominent radio station or run a print ad in the daily newspaper and expect to be seen.

The way people take in information has changed dramatically since then.

Newspaper circulation is half what it was during its 1973 peak. And podcasts and

streaming services have altered the listening landscape.

Given that plywood itself was an innovation, it should come as no surprise that from the beginning, the association has sought novel ways to reach audiences among increasing noise in the marketplace.

"The single biggest trait that signals success in marketing is flexibility," says Tara Mattina, APA's market communications director. "In my almost 30 years in the communications industry, the way people want information has changed completely since I started my career in newspapers."

As audience preferences have changed, APA's communications toolbox through the decades has included vari-

ous mixes of publications, advertising, educational programs and, more recently, digital marketing.

### **Web-based Programs**

APA launched its website in 1998 – the same year that Google was founded. While today's apawood.org looks completely different than that first website, it marked a shift to electronic communications for much of the association's marketing efforts.

In the first year, the website received about 3,000 visitors a month. In 2018, more than 500,000 users visited APA's family of websites.

The primary website, apawood.org, has become the main repository of

### **APA'S DIGITAL CONTENT**

### **Social Media**

APA has a presence on Facebook, Twitter and LinkedIn, and the association's communications team frequently posts updates on new publications, Builder Tips and industry news. Connect with APA online:

Facebook: facebook.com/APAEngineeredWood

Twitter: @apawood

LinkedIn: www.linkedin.com/company/apa---the-engineered-wood-association



### **APA'S DIGITAL CONTENT**

### **Case Studies**

Sometimes the best way to show products in action is a good example. APA offers a number of case studies on its website, which give real-life examples of how APA products and techniques are used and implemented in projects. This case study details a house in Pennsylvania that used advanced framing methods to boost energy performance.



### APA marketing by the numbers (2018) APAWOOD.ORG **PUBLICATIONS SOCIAL MEDIA** Facebook: **600** titles **2.2** million page views followers up / percent **2.5** minutes per session 259,255 downloads 9 percent followers up **12** the downloads were Product Reports LinkedIn: percent mobile users followers up 12,000 print copies distributed

Association information, linking to publications, newsletters, videos and webinars.

"Field services representatives still consult face to face with code officials, designers and builders to educate and promote engineered wood solutions, as they have for decades. But webinars and videos provide an effective way for us to extend our reach," says Tom Kositzky, director of APA's field services. "The ondemand versions housed on our website provide a convenient way for people to view the information on their own schedule."

Since the advent of cell phones and tablets prompted the website's responsive design, mobile use of the site has grown to more than 30 percent. And, as people become used to scrolling on their phones wherever they happen to be, video will play a larger role to reach people with short, visual informational hits.

### **Publications**

APA's library of publications has grown to more than 600 titles. These include product reports, construction guides, product standards, research reports, technical notes and green verification reports. A sizable proportion of the Association's marketing budget used to be dedicated to printing. In 1997, APA printed almost 736,000 copies of about 100 brochures to be mailed or handed out in person. By 2001, the library had grown to 380 publications, with more than half available for download from the website.

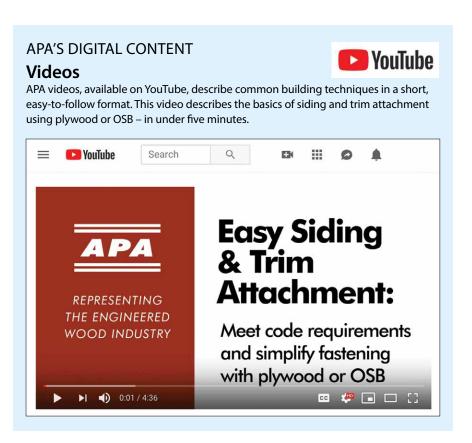
Publications remain an important way to communicate the detailed, technical information APA is known for, but most titles now are downloaded from the website rather than printed. In 2018, almost 260,000 titles were downloaded.

### Advertising Versus Earned Media

Advertising strategies have also cycled through phases. Print ads, the standard for decades, have largely been supplanted by digital ads that allow people to click

through to specific pages on a website. That seemed like an effective way to target audiences – until recent years.

Generation X and millennials, who grew up in the digital world, say they aren't swayed by paid advertising. They are driven more by relevant content and third-party endorsements, which makes earned media placements – publicity gained through promotional efforts – more valuable. Pitching stories to industry and trade publications and mainstream media is time intensive, with



no guarantees that the marketing message stays fully intact, but the payoff can be significant.

APA has used a combination of earned media, sponsored content and paid advertising for years, but the mix continues to shift away from traditional advertising toward producing solid content that can be suggested to editors for publication.

### **Social Media**

The newest additions to the communications toolkit are social media. Once seen as a fun way for classmates and families to stay in touch, such social channels as Facebook and Twitter are increasingly used for commerce.

The shareable nature of these platforms can provide a wider reach at a lower cost. Shifting algorithms drive who sees which posts, however, so professional marketers need to stay informed about changes and use each platform strategically.

"Our profiles on Facebook, Twitter and LinkedIn give us the opportunity to

### APA'S DIGITAL CONTENT

### **Webinars**

APA offers a number of web-based seminars, both live and on-demand. This webinar discusses an overview of APA's free design tool, the Force Transfer Around Openings Calculator, and explains how it can help engineers and code officials in the design implementation of FTAO shear walls.





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The MPDS allows many mills to abandon complicated and maintenance-intensive tipples, belts, divert rods and the cumbersome transitions to multiple trays, by loading each tray from discrete divert points.

Customers realize significant recovery and productivity gains in several areas including improved random recovery, reduced sheet width variance, downtime reduction, manpower reduction, and increased production. Contact us to put this technology to work in your mill.



### **APA'S DIGITAL CONTENT**

### **Builder Tips**

Builder tips on a variety of design and construction topics are available for free download on APA's website. These concise, two-page PDFs describe installation techniques in easy-to-follow steps. This Builder Tip walks builders through the installation of a squeak-free flooring system.



engage directly with members and other audiences that have questions about what we do," Mattina says. "Social platforms also allow us to maximize the impact of our advertising, publications and newsletters through wider sharing."

While the tools APA uses to communicate the benefits of the engineered wood products manufactured by its members have altered over the decades, what hasn't changed is a strategic focus behind the messages.

"Our Marketing Advisory Committee members and the participants of the market-related subcommittees invest time and effort into identifying the areas where APA can provide the most value," Kositzky says. "While the tactics in the annual Strategic Marketing Plan have changed over the decades, the end message remains the same: engineered wood is good."

Chanel Studebaker is the advertising, public relations and social media specialist for APA – The Engineered Wood Association. She can be reached at chanel.studebaker@apawood.org





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# **MORE OF THE SAME IN 2019?**

Annual Business Outlook Survey Shows Mix of Optimism, Caution

by Sheila Cain

year ago, the majority of EWTA members surveyed in the association's annual Business Outlook Survey had a positive outlook on the year ahead. This year, with 81 percent of members reporting that their optimism level for the coming year is the same or higher than last year, it looks like members are feeling fairly comfortable about their business prospects for the months ahead.

That said, fewer survey respondents this year said they were "more" optimistic about 2019 than they were when asked the same question last year. Last year 70 percent said they had increased optimism for 2018, while this year, only 30 percent said they were more optimistic this year than last. Just 19 percent of respondents viewed the coming year with less optimism than they did last year.

Like every January since 2011, the Business Outlook Survey was sent out to EWTA members at the beginning of the year, with questions designed to capture member perceptions of growth, their companies' employment levels and other business-related issues. Responses are reflected in the charts that accompany this story, which also track and compare survey responses from the past eight years.

	Very Important	Important	Unimportant
State of the U.S. housing market	69%	31%	0%
Government regulation	34%	50%	16%
Government economic policy	39%	42%	19%
Marketplace competition	35%	57%	7%
Raw material prices or supply	53.5%	39.5%	7%
Transportation costs	35%	52.5%	12.5%
International exchange rates/trade policies	53.5%	25.5%	21%
Labor issues	25.5%	53.5%	21%
Economic uncertainty	53.5%	42%	4.5%

Members are remaining upbeat about their business projections for the new year. While fewer members this year expected business to improve (44 percent compared to 79 percent last year), a slim majority of 51 percent predicted that business would stay the same. Only 5 percent felt that it would worsen.

### **Employment outlook steady**

Most members indicated that their wood-related business last year improved over the previous year. Seventy-two

percent said that business improved in 2018 over 2017; nearly the same (71 percent) as in last year's survey. Twenty-three percent felt it stayed the same over the previous year, only slightly lower than reported the year before (27 percent). Five percent felt business worsened last year. Three percent of members felt that way the year before.

While new and existing home sales nationwide have been on a downward trend since the middle of last year, EWTA member companies' employment levels don't seem to be significantly impacted by the less-than-ideal economic outlook. Forty-four percent of respondents said their employment levels increased in 2018; nearly the same percentage as the year before (45 percent). Fifty-one percent of members surveyed said that employment levels stayed the same last year over the year before, compared to 55 percent who answered the same question in 2018. Just 5 percent of members said their employment levels decreased last year over the previous year.

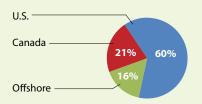
Looking ahead, members remain fairly optimistic regarding employment levels in 2019. Sixty-seven percent of respondents expect employment levels

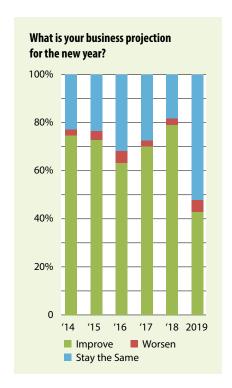
### **About the Business Outlook Survey**

The Engineered Wood Technology Association surveys members each January about their outlook on their businesses and the industry in general. The surveys, sent to member representatives via email, are voluntary and completely anonymous.

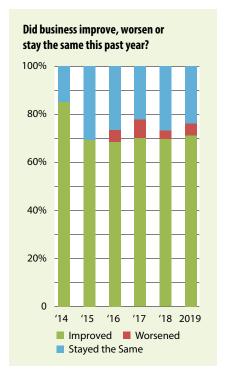


### **Headquarter location**









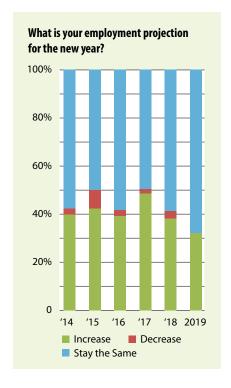
will stay the same in 2019 as they did in 2018, while 33 percent expect levels to increase. Last year, 39 percent of those surveyed felt employment would increase in the coming year. That number went as high as 64.7 percent in 2013.

### **Preparing for the future**

While the economy may be uncertain and the housing market slowing, EWTA members aren't sitting idle. In response to the question, "What have you done to adapt or seize opportunity?" one member commented that their company would be looking at efficiency improvements and waste reduction, while another is looking into high-tech equipment solutions.

"Redesign(ing) equipment to be faster and more reliable, as well as safer," read one comment. "Less operator intervention...and robotic offerings." Another indicated a move towards digitization, workflow automation and standardization.

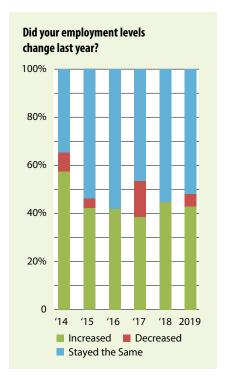
Many seem to be diversifying their offerings so they are able to perform better no matter what the future holds. Some are seeking partnerships with other manufacturers to increase product offerings, while others are focusing on improving customer service "before and after the sale." One comment mentioned investing in strategic partnerships "to



make our business more scalable."

No matter what the future holds, EWTA members will continue to push forward. As one member commented:

"We continue to focus on efficiency, quality work and good customer support. (We'll) make the best of the situation and plan for improving as things change...as they always do!"



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





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# APA'S OUTLOOK ON THE INDUSTRY

Economy Unstable, But Room for Education and Future Planning

by Sheila Cain

decade ago, single-family housing starts in the U.S. hit bottom at less than 500,000 starts, down 75 percent from the 2005 peak of 1.75 million. The collapse in single-family starts led to several difficult years of business for those in the engineered wood products industry. Now, 10 years later, the market is once again looking uncertain.

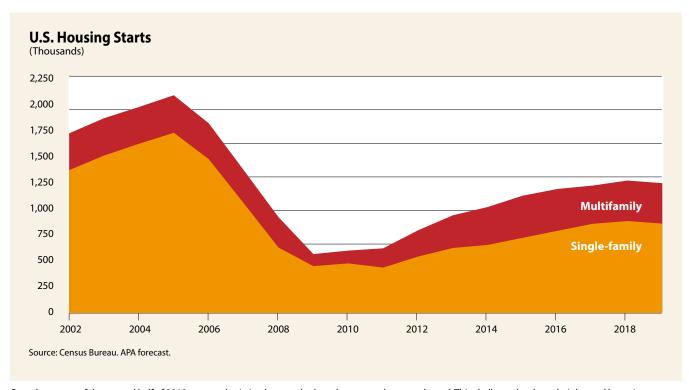
The Engineered Wood Journal sat down with Ed Elias, president of APA – The Engineered Wood Association, and Joe Elling, APA's director of market research, to find out what's happening in the industry, how APA is positioning itself during this time, and why the recent slowing of the housing industry might have a silver lining.

# **Q:** What challenges and changes is the housing industry facing?

Ed Elias, APA President: As everyone recognizes, there's a lot of volatility in the market, both domestically and internationally. We're approaching the upcoming year with a mode of caution. We're looking at potentially recessionary actions within the housing sector, our single largest market component.

Joe Elling, Director, Market Research: Over the course of the second half of 2018, new and existing home sales have been on a downward trend. This challenge has been heightened by an increase in mortgage rates and lack of supply, sustaining upward pressure on home prices. We're entering 2019 (statistic reports were delayed at press time due to the partial government shutdown in December and January) with the sense that builders are more cautious regarding the sales outlook for 2019. Builder sentiment in January 2019 was at the lowest level since July 2016. In order to generate sales, builders are reported to have been offering increased sales incentives.

**EE:** There are other things in the marketplace that are favorable, such as employment and wages, but those are far overshadowed by constraints on housing affordability and builders' ability to construct and make a profit.



Over the course of the second half of 2018, new and existing home sales have been on a downward trend. This challenge has been heightened by an increase in mortgage rates and lack of supply, putting pressure on home prices. The partial federal government shutdown delayed the release of statistics for the last few months of 2018, but this graph reflects APA's best estimates for 2018 and 2019.

# **Q:** How are other markets faring?

**JE:** Furniture manufacturers, many of which use engineered wood in their construction, are facing continued stiff competition from imports, which have taken over a larger share of the market over the last decade. Nonresidential construction is well below where it was at its peak 12 years ago. The retail sector is also seeing high vacancy rates. Department stores, for example, are seeing a hit as distribution through e-commerce rises.

# **Q:** With many of the markets slowing, where might the engineered wood industry experience gains?

**EE:** Building codes in many areas have expanded the heights for wood-framed construction to between 12 and 18 stories, where they were previously restricted to heights between four and six stories. There's potential for our industry to expand market share in volumes not previously experienced. There's potential for light-frame wood assemblies and product lines like mass timber to be used in these buildings. This is in its infancy, however, recognizing that the codes passed won't take effect until 2020 and 2021.

# **Q:** Considering the headwinds and uncertainties, what's APA delivering to boost the success of its members?

**EE:** As the marketplace slows, APA is taking this opportunity to develop tools and education to position our members to be ready for the next peak. On the education front, APA has been developing tools and programs to make it easier to engineer, design and build using our members' products. For example, new webinars in APA's Resource Library – with a focus on framing basics, advanced



Ed Elias, APA President

framing, fire protective assemblies, force transfer around openings, and other topics – have been extremely popular with the designer and builder communities. The live webinars are selling out just days after they're introduced, and the recordings are getting a lot of views as well.

JE: The education component is extremely important to the engineered wood industry. Unless we have skilled people building homes and apartments, it's going to be challenging to adequately meet the demand for more affordable housing.

**Q:** APA is just about done with its \$4.5 million lab expansion, which is adding a 70-ft by 75-ft "strong floor" and increasing the lab's ability to test taller assemblies. What will this mean for APA members and the engineered wood industry as a whole?



Joe Elling, APA Director of Market Research

wall sections and small or scale roof or floor configurations. The expansion will allow for testing of shearwalls up to three stories and allow us to look at higher-load diaphragms. We'll be able to simulate earthquake performance on full-scale buildings – not just a single plane. And since we own the lab, testing can happen immediately – we're not on anyone else's timeframe. Private labs can be expensive, and universities often have different agendas. We can set the stage for what we want to be doing going forward.

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

# **APA RESEARCH LAB EXPANSION**

**Upgrades Expand Testing Capabilities** 

he APA Tacoma Research
Center hasn't received an
upgrade – aside from a
5,000-sq-ft addition in 2006 to accommodate installation of full-scale house
and diaphragm performance test equipment – since it was built in 1969. This
spring, the \$4.5 million expansion will
open, offering enhanced testing capabilities, a 70-ft by 75-ft "strong floor" and
additional space to test shearwalls up to
three stories tall.

### **APA'S NEW LAB: By the Numbers**

### **STRONG FLOOR:**

28 tons of steel (rebar)

**830** tons of concrete

860 anchors

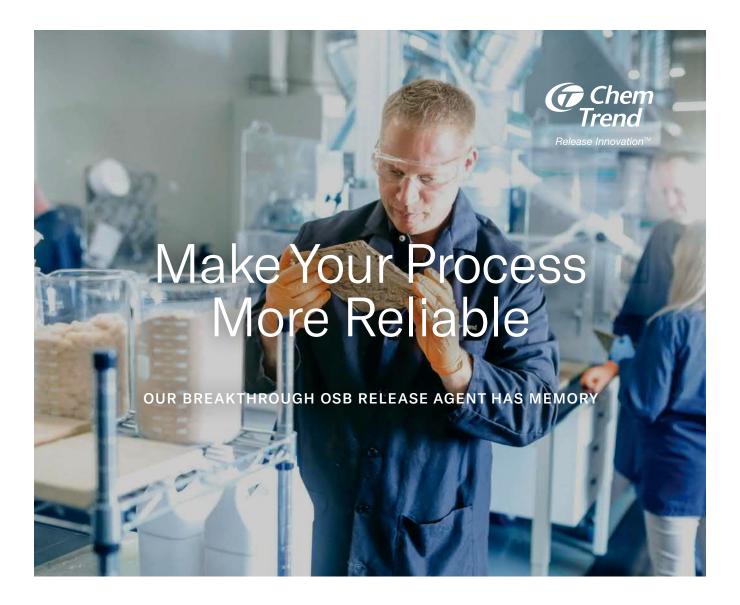
### **STRONG WALL:**

30 feet high

Made up of 10 blocks, each weighing 19,000 lbs



The "strong floor" in the APA lab's new addition will allow for the testing of taller and heavier assemblies.



Chem-Trend's breakthrough OSB release agent provides excellent memory, allowing for reliability in the event of application equipment malfunction.

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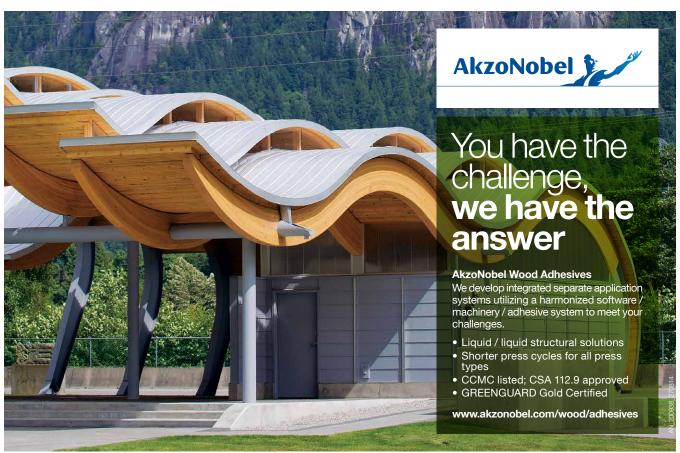




ACTUAL BOARDS MADE IN PRODUCTION









### 2019 Membership Directory

he 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 2019, 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**

The benefits of EWTA membership are many. Among them:

### Valuable Networking:

- Exhibit and sponsor at Info Fair (members-only) held in conjunction with the APA annual meeting
  - Hailed by many exhibitors as their favorite show every year
  - 2018 stats:
    - Over 500 attendees with plenty of networking opportunities (exhibits, receptions, golf, tennis, clay shooting competition, meals and meetings)
    - 85 exhibits with 90 companies exhibiting and/or sponsoring
  - High level executives from APA member companies at this event
  - Veteran Connections program new exhibitors and members may be paired with long-time exhibitors to help introduce you to APA members and others
  - Special reception with APA Board of Trustees and one representative from each exhibiting company to help you build networks and open new doors
  - 2019 Save the date for 2019! November 2-4, 2019 / JW Marriott Starr Pass, Tucson, AZ
- Supplier of the Year (all members) and Innovation of the Year Awards (if you submit an entry) including a listing on the EWTA Supplier of the Year Ballot sent to all APA member companies for voting (This benefit only applies during years when held)
- Listing on the web in our member directory featured as a new member

### **Free Vital Market Research and Publications**

- FREE Market Research Stay Informed! (\$1,150 if purchased by non-members free to our members)
  - (note if you would like samples of these reports, just ask! Our members tell us they are incredibly helpful to keep track of markets that affect our industry)
  - Monthly Housing Starts Report (annual subscription rate for non-members is \$600)

- Quarterly Production Report (annual subscription rate for non-members is \$275)
- Structural Panel & Engineered Wood Yearbook (\$275 for non-members)
- APA Management Report (free to members)
- APA Annual Report (free to members)
   (Other APA publications are available for free or at a discount to our members when ordered through our office. For more on APA Publications, visit https://www.apawood.org/resource-library)
- FREE EWTA Publications, Free Directories and Free or Discounted Marketing Opportunities:
  - Connections Newsletter Industry and member news available free to all APA and EWTA members
  - All EWTA members may submit press releases and news for free
  - All new members have a story about their company when they join
  - EWTA members may sponsor the newsletter as part of an Info Fair sponsorship package or for \$50 per issue
  - E-mailed to all APA and EWTA members
  - Engineered Wood Journal magazine sent to approximately 3,000 industry subscribers
    - Free directory listing for members in the spring issue
    - Free directory listings for exhibitors in the fall issue
    - · Opportunities for members to submit articles or news
    - Discount advertising rates available for members
  - EWTA Annual Report distributed to all APA and EWTA members with your company listed as a member

The annual cost of EWTA membership is just \$1,200. For more information about the benefits of membership or for a membership application, contact Terry Kerwood, Managing Director, terryk@engineeredwood.org or 253-620-7237, or visit the EWTA website at www.engineeredwood.org.

### Adwest Technologies, Inc., A CECO Environmental Company

Adwest Technologies provides high efficiency Regenerative Thermal and Catalytic Oxidizers (RTOs and RCOs) for engineered wood, OSB, MDF, laminating, veneer drying, and Resin VOC abatement. Adwest can provide compact, 2 chamber RETOX RTOs as well as multichamber RTOs up to 400,000 scfm flow rates. Our HEE-Duall sister Division provides Bioreaction brand Biofilter and scrubber systems while our FKI Division provides cyclone prefilters. We also service, rebuild and relocate RTOs, RCOs, Biofilters and scrubbers for the wood products markets including Smith, Pro-Environmental and all other brands.

Contact: Jeff Yerkes - Key Account Manager

Phone: (714) 632-9801 4222 East La Palma Avenue Anaheim, CA 92807 iverkes@onececo.com www.cecoenviro.com



#### Airstar Inc.

Airstar Inc. manufactures quality control NEW systems for the forestry products industry. The system can test all forestry engineered wood products including Plywood, LVL, OSB, Glulam, Lamination,

Hardwood flooring, MDF and crack detection in solid wood. Airstar's signal-to-noise ratio of the non-contact system is unmatched in the industry. The Airstar Blow Detectors penetrate products of up to 250 mm (10") thickness, and could be configured for full panel testing with up to 32 channels on 48' width. A thickness gage system is also available using high resolution laser sensors.

Contact: Jan Strycek - President Phone: 1-949-261-7100 2691 Richter Ave. Suite 112 Irvine, CA 92606 USA sales@airstar1.com www.airstar1.com



### **AkzoNobel Wood Adhesives**

AkzoNobel Wood Adhesives is one of the leading global producers of adhesive systems for the woodworking industry. Our goal is to significantly improve our customers' productivity, environmental impact and production process by partnering with the industry and focusing on advanced research and development.

Contact: Alan Grainger - Sales Manager

Phone: 336-801-0888 1567 Prospect Street PO Box 2103 High Point, NC 27261 alan.grainger@akzonobel.com www.akzonobel.com



### **Engineered Fabrics**

### **Albany International**

Albany International is a global advanced textiles and materials processing company founded in 1895. We are headquartered in Rochester, New Hampshire and employ approximately 5,000 people worldwide. Our 26 manufacturing operations are strategically located in 13 countries to serve our global customers. Albany International's core business is production of custom-designed engineered fabrics and process belts, used to manufacture all grades of paper from lightweight technical paper to heavyweight container board. In its family of emerging businesses, Albany applies paper machine clothing technologies to develop unique materials and structures for a variety of other industries, including engineered wood products. Visit us at www.albint.com. Contact: Tom Israel - Global Product Manager

Phone: 920-521-4618

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### **A-Lert Construction Services**

A-Lert Construction Services was established in 1979 and specializes in design and manufacturing as well as installation of equipment in the wood and grain industries. We offer everything from single and triple-pass rotary dryer drums, flash tube and steam tube dryers with the ability to process both organic and inorganic materials across a wide variety of manufacturing industries. We also offer the process piping, trommel screening, conveying and Cleanaire systems often needed with these systems as well. A-Lert serves as a specialty fabricator and replacement parts supplier for all existing M-E-C systems. Contact: Jordan Stewart - Sales Manager

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Contact: Jarno Kamarainen - Director, Wood Processing North America Phone: 770-640-2467 5405 Windward Parkway, Suite 100W Alpharetta, GA 30004 jarno.kamarainen@andritz.com www.andritz.com



### **Arclin - Performance Applied**

Based in Roswell, Georgia, Arclin is a leading producer of innovative bonding and surfacing solutions for the building and construction, industrial materials and natural resource markets. Arclin provides bonding solutions for a number of applications including structural wood panels, engineered wood, composite wood panels, non-wovens and paper saturation. As a world leader in paper overlays technology, Arclin provides high value surfacing solutions for construction and building products, decorative panels and industrial specialty applications for North American and export markets. For more information please visit www.arclin.com.

Contact: Reed Singleton - Technical Sales Director Phone: 678-781-5370 1000 Holcomb Woods Parkway, Suite 342 344 Tannehill Road Roswell, GA 30076 reed.singleton@arclin.com www.arclin.com



### **Altec Integrated Solutions**

Altec designs and manufactures precision machinery and advanced controls equipment. We create innovative solutions to solve the toughest application demands in the veneer and plywood manufacturing industry and amusement park industry. With our facilities in Coquitlam, BC, and Diboll, Texas, we continue to expand our products and services, setting new benchmarks for innovation and integration. Contact: Chris Bartlett - Vice President

Phone: 604-529-1991 #120 - 185 Golden Drive Coquitlam, BC V3K 6T1 Canada cbartlett@alteconline.com www.alteconline.com



### **Argos Solutions LLC**

Argos offers a full range of optical inspection and process control systems that replaces manual grading and patching of wood products. With more than 25 years of experience and installations in more than 30 countries, Argos provide the latest technology of vision-based scanning systems for the plywood, composite and furniture industries. Argos is a single source supplier for inspection and grading after the press, sander, cut-to-size, including edge inspection systems, and automatic patching systems for plywood and parquet panels.

Contact: Richard Lepine - General Manager Phone: 919-428-1262 2013 Castleburg Drive Apex, North Carolina 27523 Richard.Lepine@argossolutions.no www.argossolutions.no



### **Ashland Specialty Ingredients**

ISOSET\* adhesives from Ashland have been specially formulated for engineered wood product applications. ISOSET adhesives applied in I-joist, glulam beams and structural finger jointing wood applications provide manufacturers with high-strength, structural bonds. They cure fast, clean up easy and dry in a neutral wood color offering an alternative to traditional phenol-resorcinol-formaldehyde (PRF)-type adhesives. ISOSET adhesives provide excellent resistance to moisture, elevated temperature and creep making them an ideal choice for engineered wood products. Ashland, LLC. (NYSE:ASH) is a Fortune 500 specialty chemical company providing products, services and customer solutions throughout the world.

Contact: Mark Vlaisavich - Account Manager, Structural Assembly Adhesives

Phone: 708-205-1586 5200 Blazer Parkway Dublin, OH 43017 mvlaisavich@ashland.com www.ashland.com



### **ATCO Wood Products Ltd.**

Located in British Columbia, ATCO Wood Products is a forest management company and a producer of softwood veneer. ATCO specializes in producing custom softwood veneer for plywood and engineered wood products customers in both Canada and the United States.

Contact: Mark Semeniuk - Chief Operating Officer Phone: 250-367-9441

2073 Hepburn Drive

PO Box 460

Fruitvale, BC V0G 1L0 Canada mark.semeniuk@atcowoodproducts.com

www.atcowoodproducts.com

### **Axalta Coating Systems**

With a wide range of products and technologies, Axalta Coating Systems is the leader in the Wood Coatings Industry for the Building Products market. Contact: Craig Lyerly - Market Segment Manager, Building Products

Phone: 336-802-4746 1717 English Road High Point, NC 27262 craig.lyerly@axaltacs.com www.axaltacoatingsystems.com

### **BASF - We create chemistry**

BASF - We create chemistry -- Global supplier of MDI to the wood industry with extensive experience in MDI conversions.

Contact: Gregory Lonc - Business Manager, Rigid Urethane Chemicals North America

Phone: 732-324-6837 1609 Biddle Avenue Wyandotte, MI 48192-3736 gregory.lonc@basf.com www.basf.us



### **Baumer Inspection GmbH**

Baumer Inspection GmbH specializes in optical surface inspection systems. In over 35 years of quality service, we have installed more than 750 systems world-wide and are a leader in scanners for fully automatic inspection and process control. Baumer Inspection offers inspection systems for particle boards, wood fiber boards (MDF, HDF), paper, film and foils, flooring and surfaces of furniture panels as well as edge inspection systems. Our highly skilled and motivated team always pushes the limit of what is possible to bring you the newest innovation in vision technology for the wood working industry. Contact: Ludwig Fleischhackl – Area Manager Sales & Engineering

Phone: +49 7531 99 43 31 Cell: +49 172 1408381 Lohnerhofstrasse 6 78467 Konstanz, Germany Ifleischhackl@baumer.com www.baumerinspection.com

### **BRUKS** *5iwertell*

### **BRUKS-SIWERTELL**

Bruks is a specialty Materials Handling company with a 120 year history in engineering and manufacturing innovative equipment for Wood Chipping and Hogging, receipt at the Mill through Truck Dumps and Pits, Storage & Recovery, Material Drying, Log Handling, Butt Flare Reducing, Conveyor systems, Screening Hogs and Hammermills. Bruks Drum Chippers, especially, have been marketed and installed in North America since the 1970's with over 10,000 units operating worldwide.

Contact: René van der Merwe - Sales Manager North America

Phone: 770-849-0100 5975 Shiloh Road, Suite 109 Alpharetta, GA 30005 rve@bruks.com



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Specializing in wood processing machinery and material handling systems for the Forestry and Biomass industries: CBI Grizzly Mill, BioSizer®, Chippers for Pulp-chips or Micro-Chips, Electric Log Sweeps, Log Decks, Log Singulators, Rotary Debarkers, Vibrating Conveyors. Custom engineered solutions to take control of your fiber supply and get more from your mill

Contact: Kirk Forbes - President Phone: 604-522-3977 8717 - 132nd Street Surrey, BC V3W 4P1 Canada sales@brunettemc.com www.brunettemc.com

### Casey Industrial, Inc.

Casey Industrial has provided process installation services for over 70 years to the Forest Products sector. We self-perform all major trades, work nation-wide and have experience with all major technology providers supporting APA members.

Contact: Tom Lepak - VP, Business Development

Phone: 720-974-2659

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Westminster, CO 80234 tlepak@caseyind.com www.caseyind.com



Release Innovation™

#### Chem-Trend LP

Chem-Trend has long been known as a global leader in the development of release agent technology to the world's industries. Our sealers, release agents and lubricants are rapidly gaining acceptance in the wood composites industry, offering significant productivity improvements including increased through-put, improved output quality and definition, cleaner conditions/environment, greater productivity, less downtime and increased cost savings. Contact: Gerard Przekop - Director, North American Sales

Phone: 517-545-7844 1445 West McPherson Park Drive PO Box 860 Howell, MI 48844-0860 gprzekop@chemtrend.com www.chemtrend.com

### **Clarke Veneers and Plywood**

Clarke Veneers and Plywood is an international trading company of wood products, specializing in imports, exports and domestically traded veneers including hardwood and softwood species for structural panels, in MDO, HDO and other applications requiring clear, sound faces.

Contact: Stuart Clarke - President Phone: 601-366-0331
3000 Old Canton Road, Suite 235
PO Box 4876
Jackson, MS 39216
info@clarkeveneers.com

### Clarke's Industries, Inc.

Clarke's provides a broad range of products for the Panel Board Industry. The products include Material Storage and Metering Bins, PyroGuard Spark Detection and Extinguishment System, Hi Speed Abort Gates, Back draft Dampers and Explosion Venting, Waste Wood Processors, Rotary Screens and Classifiers, Rotary Airlocks/Feeders, Fans, Dust Collection and Pneumatic Conveying Systems.

Contact: Andy Clarke - President

Phone: 541-343-3395 660 Conger Street PO Box 2428 Eugene, OR 97402 andyc@clarkes-ind.com www.clarkes-ind.com





### CMA engineering Inc.

Since 1986, CMA engineering Inc. has accomplished a number of projects in the manufacturing end of the forest products industry, including the conceptual design, budget preparation, process engineering, detail engineering (mechanical, electrical, civil and structural), equipment procurement, project management, construction management, PLC/HMI programming and start-up of board plants (OSB, Particleboard and MDF), plywood and veneer mills, bioenergy plants, engineered wood product plants and sawmills.

Contact: Claude Malette - P. Eng. Phone: 705-360-5525 60 Wilson Avenue, Suite 101 Timmins, ON P4N 2S7 Canada cma@cmaeng.com www.cmaeng.com

### **Coastland Wood Industries Ltd.**

Coastland has grown from a single line veneer mill to a triple line mill with an offsite drying facility, two barge loading facilities, and three log sorts. Our infrastructure has grown as our customer needs have grown with efficiency, and safety as key drivers. Our facilities compliment other capacity in our region, resulting in a healthy forest industry that further benefits Coastland and our customers. Quality: We strive to deliver quality in every aspect of our business, it touches everything we do; quality is job security. Our reliable grades allow our customers to accurately control the structural properties of their products.

Contact: Doug Pauzé - Senior Vice President, Operations

Phone: 250-754-7775 ext. 115 #2-84 Robarts Street Nanaimo, BC V9R 255 Canada dpauze@coastlandwood.com www.coastlandwood.com



### **Cogent Industrial Technologies**

From greenfield to modernization projects, clients across the globe leverage our technology expertise in wood based panel board and pellet plants to successfully define, design, build and operate their industrial operations. Our services include: project management, process engineering, plant-wide integration, industrial safety, electrical power, automation and controls, industrial IT and operations performance management.

Our integrated approach connects equipment, processes and people to increase productivity, reduce operational cost and improve efficiencies.

Contact: Bijan Shams - President Phone: 604-207-8880 Suite 300 13775 Commerce Parkway Richmond, BC V6V 2V4 Canada

bijan.shams@cogentind.com www.cogentind.com

### Coil Manufacturing Ltd.

Coil Manufacturing is the leading manufacturer of rotary drum blenders and spinning disc atomizers for resin application in the engineered wood industry.

Contact: Mike Coil - General Manager

Phone: 604-596-7578 8269 - 130th Street Surrey, B.C., V3W 7X4 Canada mdc57@telus.net

mike@coilmanufacturing.com www.coilmanufacturing.com

### **Combilift USA**

Combilift is a specialist forklift & straddle carrier manufacturer producing a wide range of customized handling solutions, all of which are designed for the safe, space saving and very productive handling of the long and bulky loads. 4-way Combilifts work as counterbalance, sideloader, and narrow-aisle forklifts. The Combi-SC (Straddle Carrier) is the cost effective solution for the handling of containers and oversized loads.

Contact: Gearoid Hogan - VP Sales & Marketing Northeast

Phone: 336-378-8884 303 Concord Street Greensboro, NC 27406 gearoid.hogan@combilift.com www.combilift.com



#### **Connexus Industries Inc.**

Connexus industries Inc. manufactures and distributes specialized chain, attachments and sprockets for OSB manufacturing plants. We also are manufacturers of Laharco Laser Diodes and Rens-Metal Shark Metal Detectors. Locations in Atlanta, Quebec, Portland & Vancouver. Formerly Viking Chains, I'ANCO Products and Lacey Harmer Inc.

Contact: Cliff Lane - President & General Manager Phone: 604-882-1602

27474 Gloucester Way Langley, BC V4W 4A1 Canada clane@cnxsind.com www.connexusindustries.com



### Con-Vey Keystone, Inc.

Con-Vey has over 70 years experience in custom material handling solutions. We engineer and manufacture equipment for, Plywood, OSB, PB, MDF, LVL, I-Joists and Specialty Panels. Con-Vey supplies world class saw lines, finishing lines, sanding lines, feeders, stackers, conveyors, specialty automated equipment and robotic solutions. Con-Vey means Quality and Value you can count on.

Contact: Dave Larecy - President Phone: 541-672-5506 526 NE Chestnut PO Box 1399 Roseburg, OR 97470

dave.larecy@con-vey.com www.con-vey.com



### **COSTA Sanders LLC**

Building on 60+ years of experience manufacturing industrial calibrating, sanding and polishing equipment, Costa's large panel series machines continue a tradition of rugged world class machinery that made Costa an industry leader in the field of industrial sanding-calibrating equipment. These "super duty" solutions are engineered and manufactured to the highest quality standards, in modular frames, with the right combination of working units, motors, and feed speeds that best fit the industrial process of today and tomorrow. Costa Sanders offers machine solutions engineered expressly to fit each client's own manufacturing environment and production needs - whether Particle Board, Fiberboard, Plywood, OSB, or CLT. Our sanding systems are capable of processing up to 145" wide panels with thicknesses up to 13" at the required industry production speeds. Contact: Eric Johnston - Sales Director - Panel Divi-

Phone: 336-434-6644 107 Seminole Drive Archdale, NC 27263 eric.johnston@costasanders.com

### **Covestro LLC**

Covestro LLC is a world-leading supplier of high-tech polymer materials. Thanks to our global presence and close proximity to our markets, we are the partner of choice for a variety of industries. For manufacturers of composite wood products, consistent product quality and process advantages make Covestro's Mondur® pMDI your natural choice for binding wood composites. Offering extensive R&D and strong technical service, Covestro is your source for binders and binder technology. The excellent property performance of wood composites bonded with Mondur pMDI products makes them especially suited for use in specialty applications, particleboard, laminated-stranded lumber, moisture-resistant OSB, OSB web-stock and OSB flooring.

Contact: Ian Hughes Sr Market Manager – Building and Construction Phone: 412-413-6871 1 Covestro Circle Pittsburgh, Pd. 15205 ian.hughes@covestro.com www.covestro.com

### DIEFFENBACHER

### **Dieffenbacher Customer Support, LLC**

Dieffenbacher is an international group of companies specializing in the manufacturer of press systems and complete production systems for the wood, automobile and supplier industries. As an independent fifth generation family company, we have stood for continuity, tradition and reliability for over 140 years. Our Wood business unit plans and implements complete solutions for the manufacture of wood-based panels, such as particleboard, MDF, OSB and LVL plants.

Contact: Cole Martin - Sales Manager, Capital Sales and Modernizations

Phone: 678-325-5782 1345 Ridgeland Parkway, Suite 100 Alpharetta, GA 30004 cole.martin@dieffenbacher.com www.dieffenbacher.com

### **DO2 Industriel**

The DO2 Rapid Wrapper Automatic Panel packaging system offers outstanding performance. The wrapping machine's electrical, mechanical and pneumatic components, its design, the programming structure and tactile interface have all been designed for easy use and no-hassle operations. All of the wrapper's components are robust and maintenance-free. Built with durability and efficiency in mind, the wrapper will optimize your plant's production on a daily basis. Contact: Patrick Sasseville - Sales Representative Phone: 888-276-0554

303 8th Avenue
Dolbeau-Mistassini, Quebec G8L 1Z6 Canada
info@do2.ca
www.do2.ca



### **Dominion Chemical Company, Inc.**

Wax nuances are our expertise. With over 60 years of experience in the wax business, Dominion Chemical offers rare and valuable working knowledge as well as trust and proven abilities to bring solutions, support and alternatives to provide the exact product you want. With locations in Virginia and Georgia, Dominion Chemical's capacity to blend, package and create specialty wax formulations will meet your unique needs. We offer an exceptional emulsification process, state of the art blending, compounding, packaging and experienced personnel as well as a full service wax lab dedicated to your needs for R&D, QC, and general product evaluation.

Contact: Maclin Ferrell - Vice President Phone: 804-733-7628 2050 Puddledock Road PO Box 1069 Petersburg, VA 23803 maclinferrell@dominionchemical.com www.dominionchemical.com



### **Durr MEGTEC, LLC**

Durr MEGTEC, LLC offers multi-pollutant cleanair solutions to the engineered wood products industry that meet stringent emissions regulations: wet scrubbers and wet electrostatic precipitators for high-efficiency particulate, blue haze and condensed salts removal for dryers and press vents; dry electrostatic precipitators for particulate removal from energy sources, and ultra-high-efficiency RTO/RCO systems for VOC abatement. We also offer pulse jet fabric filters (baghouses), SNCR systems for NOx control, and cyclonic dust collectors. The Dürr MEGTEC aftermarket group also provides upgrades, parts, and service for every make of air pollution control equipment for the engineered wood products industry.

Contact: John Giesfeldt - Content Marketing Manager Phone: 920-339-2787 830 Prosper Street PO Box 5030 DePere, WI 54115 United States info@megtec.com www.babcock.com

### **EcoSynthetix**

EcoSynthetix is a renewable chemicals company specializing in bio-based materials that are used as inputs in a wide range of end products. Our commercial products are cost-competitive and exhibit similar performance characteristics compared to the non-renewable products they replace. Our sustainable products allow customers to reduce their use of harmful materials, such as formaldehyde and styrene-based chemicals. Our two flagship products are EcoSphere's biolatex's and DuraBindTM biopolymers. EcoSphere is in commercial use around the world in the paper and paperboard packaging industries. DuraBindTM biopolymers are a no-added formaldehyde binder system used in the production of wood composite panels.

Contact: Scott Good - RVP Sales, Americas Phone: 587-899-2621 3365 Mainway Drive Burlington, ON L7M 1A6 Canada sgood@ecosynthetix.com www.ecosynthetix.com

### Electronic Wood Systems, N.A.

EWS North America was founded in 1993. We are a leading supplier of quality control measuring systems for the wood composite panel board industry, including: Thickness Gauges, Blow Detection, Press Protection Devices, Spark Detection & Extinguishment Systems, Mass (WPUA) Measuring, non-contact Weigh Scales and Density Profile Measuring Systems. Contact: Steven Mays - Partner

Phone: 503-643-6305 3720 SW 141st Avenue, Suite #206 Beaverton, OR 97005-2349 steve@ews-usa.com www.ews-usa.com

### **Evergreen Engineering, Inc.**

Evergreen is a multi-discipline (mechanical, electrical, civil/structural and environmental) engineering firm. From project planning and feasibility studies through detailed engineering, construction management, maintenance and process consulting, to start-up and commissioning support, Evergreen can handle any project in your mill. Our wood products experience includes OSB, LVL, I-Joist, Particleboard, MDF, Hardboard, WPC, Pulp & Paper, Lumber, Plywood, Chemical and Resin plants. "Our mission is to provide customized support to move our client's vision to reality by delivering practical engineering solutions, displaying project leadership and contributing technical expertise."

Contact: Aaron Edewards - Director, Industrial Business Development Phone: 541-484-4771 Eugene Office 1740 Willow Creek Circle Atlanta Office: 404-267-1471

Eugene, OR 97402-9152 aedewards@eeeug.com www.evergreenengineering.com

8607 Roberts Drive, Suite 100

### **Evertree**

Plant Based Chemical Solutions offering a revolution in industrial solutions and materials with cost competitive, plant-based chemicals that offer the same or better performance than petroleum-based chemicals. Our first product family SynerXiD™ offers a 20 to 40% reduction of formaldehyde and petroleum based resins used in wood based panels with a significant raw material cost reduction while achieving the same panel properties.

Contact: Peter Tagge - CEO - North America Phone: 917-224-5794

727 Norristown Road Ambler, PA 19002 peter.tagge@evertree-technologies.com www.evertree-technologies.com



### Fagus GreCon, Inc.

Fagus GreCon, INC. Since 1911, Innovation is Our Tradition. MEASURING SYSTEMS: Improves your bottom line. Check out the full range of in-line measuring systems: thickness gauges, blow & delamination detector, moisture meters, raw density profile. Weight per unit area across the whole production width at the mat former and after the press. Detect surface defects on décor panels and flooring. SPARK DETECTION & EXTINGUISHING SYSTEMS: Provides safety for your production. Detect sparks and extinguish them before the filter. Detect heat buildup in silos, bag houses and storage bins. Outlined in NFPA 69, 654 and 664 standards. Factory Mutual Approved.

Contact: Alexander Root Phone: 704-912-0000 648-A Griffith Road Charlotte, NC 28217 sales@grecon.us www.grecon-us.com



### Flamex, Inc

www.sparkdetection.com

Flamex Inc. is a leading supplier of customized industrial process fire prevention and protection equipment. We specialize in the protection of facilities that handle combustible dusts that utilize pneumatic dust collection and air filtration systems. To address the process fire hazard inherent in various industrial applications, our company pioneered the utilization of a new technology in North America by introducing the FLAMEX Spark Detection and Extinguishing System in 1977 and the MINIFOG PressProtect System in 1997 for the protection of Industrial Presses. The flexibility of these systems allows their use in other hazardous areas such as Thermal and Hydraulic oil rooms where AFFF Foam Fire Fighting systems can be utilized for further protection. Contact: Ed Pridgen - Minifog Product Manager Phone: 336-299-2933 4365 Federal Drive Greensboro, NC 27410 epridgen@sparkdetection.com

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### **Franklin Adhesives & Polymers**

Franklin Adhesives & Polymers, a division of Franklin International, manufactures adhesives for the domestic and global wood furniture, millwork and engineered-lamination markets. We have led the way in the innovation of wood adhesives and various types of wood bonds and have developed adhesive solutions for many applications in the wood product manufacturing plant. Under the trusted brand names Titebond, Multibond, ReacTITE and Advantage, our products provide superior performance in wood assembly, solid edge and face gluing, engineered product lamination and finger jointing.

Contact: Joshua Bartlett - Business Development Manager

Phone: 800-877-4583 2020 Bruck Street Columbus, OH 43207 joshbartlett@franklininternational.com www.franklinadhesivesandpolymers.com



### **FROMM Packaging Systems**

FROMM Packaging Systems for the lumber Industry consists of heavy-duty machinery. Our equipment covers all packaging solutions for the forestry industry (timber, plywood, MDF, HDF, chipboard etc) with strapping machines, wrapping and waterproof machines. We develop and produce a wide variety of systems for unitizing and palletizing goods for transport: strapping machines and systems, pallet stretch wrapping machines, together with all necessary consumables. Established in 1947, the Swiss company pursues a policy of logical vertical integration while upholding traditional values such as proximity to customers, quality consciousness, continuity, independence and environmental awareness, which are the reasons for decades of success.

Contact: Francesco Belloni - Equipment Manager Phone: 9176982052

85 Fulton St Boonton, New Jersey 7005 USA francesco.belloni@airpadusa.com frommstrappingsystems.com



### Fusoni U.S.

www.fusoni.net

Fusoni develops and manufactures release agents and additives for panel board manufacturing, and also for paper impregnation processes. Our chemicals expertise extends to other industries, such as release applications in bakery, polyurethane systems, and other applications. For almost 40 years we have been serving clients in Europe, Asia, Africa, Australia and the Americas. We add value through chemistry, and work closely with our customers, helping them improve the properties of their products and reducing production cost through excellent release and additive performance. We look forward to working with you to make your products better and your business more profitable.

Contact: Adrian Yovanovich - Manager, North

America
Phone: 210-712-7803
Fusoni Componentes, S.L.
Polígono Industrial de Argame - C/Mostayal
Fusoni U.S.
422 Mesa Loop
Argame, Asturias, Spain
ayovanovich@fusoni.us



bonds that last. advancements that work."

### **Georgia-Pacific Chemicals LLC**

Georgia-Pacific Chemicals offers a portfolio of thermosetting resins for plywood, oriented strand board and laminated veneer lumber applications as well as custom-formulated solutions to meet our customers' specific needs. Our innovative RESI-BOOST® adhesive technology, when used in combination with RESI-BOND® and RESI-MIX® adhesives, has demonstrated decreased press times as much as 10-20% without sacrificing bond quality nor increasing temperatures. It can lower glue usage as much as 3-10%. RESI-BOOST adhesive technology joins our other quality products - WOODWELD® spray dried powders; RESI-STRAN® and RESI-BOND liquid adhesives; and RESI-MIX® and RESI-MIX® Ultra ready-to-use mixed adhesives.

Contact: Georgia-Pacific Wood Adhesives Phone: 866-4GP-CHEM/866-447-2436 133 Peachtree Street NE Suite 10 Atlanta, GA 30303 gpchemical@gapac.com www.gp-chemicals.com



### **Globe Machine Manufacturing Company**

Globe Machine offers single machine centers along with complete systems to the following industries: OSB, MDF, particleboard, plywood, strawboard, moulded door skins, membrane presses, siding, LVL, laminate flooring and sheet plastics. Globe Machine is the leader in the supply of automated I-joist assembly systems and has achieved a leadership role in the cement fiberboard industry and moulded door skin lines. For 100 years Globe Machine has served the forest products industry.

Contact: Mike Tart - Sales Manager

Phone: 253-383-2584 701 East "D" Street PO Box 2274 Tacoma, WA 98421 sales@globemachine.com www.globemachine.com



### **Grenzebach Corporation**

We are a leading global manufacturer and supplier of drying systems to the veneer and building materials industries with over 400 dryer installations worldwide. Grenzebach's new Wood Fiber Insulation Board line produces materials in densities of 3 to 10 lbs. per cubic foot. Our veneer product line includes dryer infeed and outfeed systems, jet and longitudinal dryers, and color veneer grading and stacking systems. Grenzebach has completed extensive rebuilds on all makes and models of veneer and gypsum dryers. Complete parts and service support is also available. Contact: Charles Shurtliff

Sales Manager - Building Materials Division 10 Herring Road Newnan, GA 30265 charles.shurtliff@grenzebach.com www.grenzebach.com

### **Guardian Chemicals Inc.**

Providing solutions, results and meaningful service has earned Guardian Chemicals Inc. the enviable industry reputation as the 'go-to' people for chemical technology and services. Our extensive research and development group, in house ISO 14001 certified manufacturing and products like our revolutionary patented PRESSGUARD series release agent technology for MDI resins in continuous and multi-opening presses, keep us at the forefront of the engineered wood industry. From W.E.S.P. and Scrubber treatment technology, process chemicals and defoamers to maintenance chemicals, odor control and corrosion prevention, Guardian's wood group provides our partner clients with a complete package along with the flexibility to adapt products to the specific needs of each individual application and customer.

Phone: 780-998-3771 155-55202 SH 825 Sturgeon Industrial Park Sturgeon County, AB T8L 5C1 Canada gpecharsky@guardianchem.ca www.guardianchem.com



#### H.B. Fuller

H.B. Fuller Plywood Adhesive Coated Solutions has specialists for all your composing needs. Gain improved wood recovery and reduced unit costs at the composer through a package of specialized tapes and strings, patented adhesive application equipment, process improvement tools and expert service for both green and dry veneer process.

Contact: Adam Brennan - Senior Account Manager

Phone: 318-349-4081 417 NW 136th Street Vancouver, WA 98685 adam.brennan@hbfuller.com www.hbfuller.com

#### Hansen-Rice, Inc.

Solutions driven organization providing value to construction projects through Pre-Construction, In-House 3D Design, General Contracting and Self Perform Steel & Thermal.

Contact: Dale Dolecheck - Director, Industrial Programs

Phone: 208-465-0200 1717 E. Chisholm Dr. Nampa, ID 83687 ddolecheck@hansen-rice.com www.hansen-rice.com

#### **HAWE Hydraulik**

HAWE Hydraulik is a well-respected, worldwide, Germany-based company with offices in over 20 countries. HAWE's primary business is providing high quality hydraulic components through modular design and energy efficient solutions. HAWE offers a full range of products from high pressure valving to custom hydraulic units and manifolds to complete hydraulic systems including motion controls. We are a complete solutions provider.

Contact: Steve Kathan - Industrial Group Manager Phone: 503-222-3295

Phone: 503-222-3295 12990 SE Highway 212 Clackamas, OR 97015 s.kathan@hawe.com www.hawe.com

#### Henkel

Henkel is the world's largest Adhesive company. LOC-TITE PURBOND is a world-leading brand in Polyurethane and Polyurethane Hybrid adhesives for engineered wood bonding, offering ductile bond lines, zero formaldehyde, zero solvents with a wide range of open and set times for Glulam, CLT, Finger jointing, and innovative applications, both cold setting and RF/hot pressing. LOC-TITE HB Xxx2 Purbond is the ONLY 1 component, high-production adhesive certified to North American Glulam, CLT, Finger Jointing and I-Joist requirements. With a strong North American sales and technical team and a fully equipped wood lab, we can provide the solutions, support and technology to meet the demanding requirements of engineered wood bonding and innovations of the future.

Contact: Chris Whelan - Business Development Director

Director
Phone: 604-880-2361
10 Finderne Ave, Suite B
Bridgewater, NJ 08807
chris.whelan@henkel.com
www.furniture-building-components.com

#### **HexArmor**

HexArmor is a global PPE (personal protective equipment) manufacturer that uses innovative technologies to build high performing hand protection, arm/body protection, and eyewear. At HexArmor, we understand the daily challenges faced by safety teams in the wood products industry. Working to meet growth and operational expectations while keeping employees safe on the job can be a tough balancing act. Injuries are costly. Down time and lost productivity damage company reputations and slow growth. Let HexArmor help you build a PPE program that keeps you operationally efficient while giving your employees the best opportunity to go home safely to their families.

Contact: Patrick Beadling - Director of Account Services

Phone: 616-459-4144 2000 Oak Industrial Drive Grand Rapids, MI 49505 patrick@hexarmor.com www.hexarmor.com



#### Hexion Inc.

Hexion Inc. is a leading global source for adhesives, resins, formaldehyde, melamine and derivatives 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. The Forest Products division of Hexion Inc. is the global leader in supplying resins, adhesives, wax emulsions and ancillary products to the forest products industry. Customers use our materials to manufacture a wide range of composite and engineered wood products including plywood, particleboard, oriented strandboard, medium density fiberboard, structural beams, furniture, mouldings and millwork.

Contact: Steve Banick Phone: 541-741-6650 180 East Borden Street Columbus, OH 43215 Steve.Banick@hexion.com www.hexion.com



#### **Hunt, Guillot & Associates LLC**

Hunt, Guillot & Associates, LLC (HGA) is a multi-disciplined project management and engineering design firm. HGA has been serving the forest products industry since the firm's founding in 1997. HGA continues to provide expertise to the Engineered Wood Products, LVL, I-Joist, OSB, Plywood, Particleboard, Glue Lam and Lumber industries. Services provided include project management, feasibility studies, preliminary engineering, detailed design engineering and on-site technical support services.

Contact: Jason McIntosh - Director of Business Development HGA Phone: 318-255-6825 603 Reynolds Drive PO Box 580 Ruston, LA 71270

jmcintosh@hga-llc.com

www.hga-llc.com

#### **Huntsman Polyurethanes**

michael f adams@huntsman.com

www.huntsman.com

For more than 30 years, Huntsman has been a global leader in the production of MDI-based resin binders for particleboard, medium-density fiberboard and oriented strand board. Our dedicated Composite Wood Products teams are committed to helping our customers reach their goals in all market conditions. There is no added formaldehyde (NAF) with Huntsman's RUBINATE® resins, and can be qualified as exempt under CARB Standards and EPA TSCA Title VI. Contact: Michael F. Adams, Business Manager Phone: 905-609-0034
8600 Gosling Road
The Woodlands, TX 77381

## IBC, International Bar Coding Systems & Consulting Inc.

IBC, International Bar Coding Systems & Consulting Inc. - An integrated manufacturer of individual piece wood product specific printer applicators. Complete solutions for finished or in-process packs, we offer Automated Package labelers (AutoLabeler) for Veneer, OSB, MDF, Plywood, Lumber and EWP. We manufacture tags and labels for any labeling system and are a single source provider for turnkey solutions. We offer Vendor Managed Inventory of consumables and integrated data collection systems across North America. We provide full design, build, onsite service, preventative maintenance, training and consulting on a system-wide or mill-by-mill basis. Contact: Chris Pedersen - President

Phone: 250-493-3201
1940 Barnes Street
Penticton, BC V2A 4C3 Canada
cpedersen@ibcworld.net
www.ibcworld.net

# Idemitsu Lubricants America Corporation

IDEMITSU/Idemitsu Lubricants America Corporation offers wood industry members a full line of lubricants including synthetic high-temperature chain oils, environmentally friendly gear and hydraulic oils as well as compressor lubricants. By using highly refined, hydro-cracked base oils Idemitsu Lubricants America Corporation can provide high quality blended lubricant products to meet your critical requirements. The customer-oriented philosophy of IDEMITSU is to develop products based on the customer's requirements. Professional Lubrication Engineers can assist in all facets of your lubrication project from problem analysis to product selection and from lubrication maintenance to development of customized lubricant-check systems.

Contact: Ryan Stanton - National Accounts Engineer Phone: 248-455-1458 3000 Town Center, Suite 2820

Southfield, MI 48075 rstanton@ilacorp.com www.ilacorp.com



#### **IMAL-PAL Group**

Established in the 1970s, the Group is a world leader in the manufacture and supply of equipment and systems. Its extensive production program is able to supply complete turnkey plants for the treatment and processing of fresh and recycled wood, in 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.

Contact: Andrew Jowett - President Phone: 509-855-3411 IMAL-PAL Group, Inc. P.O. Box 870949 Stone Mountain, GA 30087 andrew.jowett@imalpal.com www.imalpal.com



#### **IMEAS Inc.**

IMEAS is a world leader in surface finishing solutions, with over 3,000 machines operating worldwide. 2016 marked IMEAS's 50th Anniversary of Innovation and Service to the Wood Products Industry. IMEAS sanding and grinding machines are used to achieve precise surface finish and thickness on a wide variety of products such as plywood, LVL, CLT, composite wood panels, decorative laminates, flooring and solid surface products, etc. IMEAS specializes in extra wide machines - 12' (3.6 meters) and crossbelt sanding for wood products.

Contact: Nathan Rutherford - President Phone: 678-364-1900 1125 Commerce Drive Suite 200 Peachtree City, GA 30269 imeas@imeas.net

#### Intertape Polymer Group

www.imeasinc.com

Intertape Polymer Group® (IPG®) is the market leader in protective fabrics with over 25 years of experience in the wood industry. IPG is an integrated supplier and manufacturer of woven coated lumber wrap. IPG's wrap offers the ability to advertise your corporate logo in up to four colors and increase brand awareness throughout the transportation process. Available in various weave strengths and colors to fit your needs.

Contact: Scott Maw - Sales Woven Packaging - IPG Phone: 780-224-6569 50 Abbey Avenue Truro, Nova Scotia B2N6W4 Canada smaw@itape.com www.itape.com

#### **Itipack Systems**

Itipack Systems has been in business since 1970. We are a manufacturer of automated strapping systems. Contact: Bert Kuik - NA BD/Sales Director Phone: 905-333-3695 Cell: 360-594-2338 919 Zelco Drive Burlington, ON L7L 4Y2 Canada bkuik@itipacksystems.com www.itipacksystems.com

#### JAX, Inc.

JAX is a full-line lubricant manufacturer with expertise in compounding high-end synthetic and petroleum lubricants. With over 60 years of industry experience, JAX has earned it's their 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 and performance. Contact: Ted Schultz - Director OEM & Engineered

Phone: 800-782-0570 ext. 307 W134 N5373 Campbell Drive Menomonee Falls, WI 53051 tjschultz@jax.com www.jax.com

# KĀDANT

#### **KADANT Carmanah Design**

KADANT Carmanah provides leading edge technology and equipment to optimize fibre utilization for the production of wood-based panels. KADANT Carmanah's products include SmartDISC Stranders, SmartRING Stranders, Rotary Debarkers and Conveying/Feeding equipment for the oriented strand board market. As a global leader in stranding technology, KADANT Carmanah holds an impressive 80% of this market share.

Contact: Carlos Vieira - Director, Capital Sales Phone: 604-299-3431 Unit #8 15050 54A Avenue Surrey, BC V3S 5X7 Canada info.carmanah@kadant.com www.kadantcarmanah.com



#### Kimwood Machinery, Inc.

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 - Vice President Sales & Service

Phone: 800-942-4401 77684 Highway 99 South Cottage Grove, OR 97424 msimmons@kimwood.com www.kimwood.com

#### KOCH KNIGHT

#### Koch Knight, LLC

A domestic manufacturer and global leader of ceramic media for Regenerative Thermal Oxidizers (RTO). Our media is designed to work in normal to your most challenging application environments. A mixed bed of our FLEXERAMIC® structured media and LPD® random media offers optimal heat transfer and full bed utilization while our GR (Glazed Resistant Alumina) material is produced for OSB Dryer and other applications for the wood products industry. We manufacture our ceramic media domestically and stock over 100,000 cubic feet at our East Canton, Ohio facility at any given time to accommodate current and future customers for quick response and short lead times.

Contact: Matt Thayer - VP Sales and Marketing Phone: 330-488-1651 x210 5385 Orchard View Drive SE PO Box 30070 East Canton, OH 44730 matthew.thayer@kochknight.com www.kochknight.com



#### KTC Industrial Engineering Ltd.

"Great projects start here." Expertise, experience, and proven track record second to none. Our staff has designed 24 greenfield plants and completed over 600 projects in the engineered wood industry over the past 30 years. KTC utilizes proven methodology to design machinery and processes while supporting the project management team with accurate budgets and schedules. We are now taking the risks out of projects with Dynamic Process Modeling and Advanced Project Tracking technology.

Contact: Jan Karnik - President Phone: 604-592-3123 #218-12877 76th Avenue Surrey, BC V3W 1E6 Canada jan.karnik@ktceng.ca www.panelboard.net

#### **LIMAB North America**

LIMAB supplies non-contact laser measuring systems for composite panels and engineered wood products, including thickness and squareness measurements, and blow detections on panels.

Contact: Jens Svensson - President

Phone: 704-321-0760 9301-B Monroe Road Charlotte, NC 28270 jens.svensson@limab.com www.limab.com

#### **Lonza Wood Protection**

Lonza Wood Protection is a global leader in the development and supply of innovative technologies for the treatment of wood. Lonza's technologies improve the performance of wood products, making them resistant to termites, fungi, fire, mold and moisture. Lonza manufactures and supplies many of the highest quality and well-known wood protection products, including its Wolman® line of preservatives, Sillbor® borate treatments, Chemonite® ACZA industrial preservatives, Dricon® fire retardants, FrameGuard® and Wolman® non-pressure mold inhibition and preservative products and the Diacon Mycostat® and Antiblu® antisapstain lines. Together with its New Zealand-based affiliate, Zelam Ltd, Lonza offers formulations specifically designed for the treatment of engineered wood. With global operations and an expansive offering of services and expertise, Lonza is dedicated to the success of its customers.

Contact: Steve Nielsen - Regional Sales Manager Phone: 604-271-8855 360 Interstate North Parkway, Suite 450 Atlanta, GA 30339 steve.nielsen@lonza.com www.wolmanizedwood.com

#### Lundberg

Lundberg is a global supplier of air pollution control systems to process industries including the engineered wood products industry. State-of-the-art systems that include the Geoenergy E-Tube Wet ESP, GeoTherm RTO and GeoCat RCO Oxidizers and Geoenergy Wet Scrubbers. Geoenergy systems have provided environmental compliance to the engineered wood products industry on wood dryers, press vents and boilers since 1984.

Contact: Jaymie Deemer - Director of Sales Phone: 425-283-5070

Phone: 425-283-5070 8271 154th Ave NE Suite 250 Redmond, WA 98052 jaymie.deemer@lundbergllc.com www.lundbergllc.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 ink jet printing solutions for applications including grade marking, nail patterns, traceability and large format logo printing. We also offer a variety of inks, specific to the wood industry, including water based, fast dry and VOC free.

Contact: Donna Meade - Strategic Initiatives Manager Phone: 800-775-7775 6515 Penn Avenue Pittsburgh, PA 15206 info@matw.com

www.matthewsmarking.com



#### McLube

McLube is a globally recognized leader in the release and lubrication industries headquartered outside Philadelphia, USA. Founded in 1954, McLube has remained at the forefront of the release agent, antistick, and lubrication markets by providing quality, tailormade coatings complimented by unparalleled technical assistance and customer service. Our Formulation Chemists have applied their decades of experience in the resin and composites molding industry to develop superior platen sealers and release agents for the tenacious resin binders used in the wood press industry. Contact McLube for more information, on-site technical assistance, and samples of our proven formulas. McLube is a brand of McGee Industries, Inc.

Contact: Evan Silo - Technical Representative Phone: 610-459-1890 Glenn Dublisky - Sr. Technical Representative 9 Crozerville Road PO Box 2425 Aston, PA 19014-0425 info@mclube.com www.mclube.com



#### Mereen-Johnson LLC

Mereen-Johnson has been setting the standard for the woodworking and engineered materials industries since 1905 and offers a complete line of Gang Rip Saws, Profiling Machines, Cross Cutting Equipment, Sizing Systems, I-Joist equipment, and related material handling designed for reliable, high speed production with minimal maintenance. Mereen-Johnson also offers a complete line of solid wood processing equipment such as fixed arbor and shifting blade straight line multiple Rip Saws, Rough Mill Optimizing and Material Handling, Moulders, Single and Double End Tenoners, CNC controlled Dovetailers, and Box Clamps.

Contact: Dave Olson - Corporate Sales Manager Phone: 612-529-7791

5201 East River Road Suite 301 Minneapolis, MN 55421 info@mereen-johnson.com www.mereen-johnson.com



#### Meinan Machinery Works, Inc.

Established in 1953 in Japan, Meinan develops and manufactures innovative machinery for veneer and plywood production, and holds hundreds of worldwide patents. Meinan's revolutionary "spindle-less" lathe drives logs on their circumference with spiked discs instead of spindles, resulting in better veneer quality, higher yield, and extremely close thickness tolerance. The lathe is part of an automatic veneer peeling line featuring automatic stacking and green composing of random strips into full veneer sheets to save labor costs and increase dryer utilization. Meinan also manufactures scarf composers, grading systems, automatic layup lines, and sanders. Represented in USA by Merritt Machinery, LLC in Lockport, NY.

Contact: Jimmy Nakaya - Sales Director Phone: 716-434-5558 U.S. Representative: Merritt Machinery, LLC 10 Simonds Street Anna McCann, President amccann@merrittmachinery.com www.merrittmachinery.com



#### Metriguard Technologies Inc.

High-speed Metriguard veneer graders operate in LVL and structural plywood mills worldwide. Laboratories depend on Metriguard Panel Bending & Performance Testers to evaluate structural panels. The new Model 840 tests OSB used as I-joist web stock. For MSR/MEL lumber producers, Metriguard offers the Model 7200 for longitudinal installations and the Sonic Lumber Grader for transverse installation, both are compatible with scanners. The Model 312 Bending Proof Tester is a standard in MSR QC labs. With over 40 years in the engineered wood products business, Metriguard has the knowledge and equipment for grading and testing structural veneer, panels and lumber.

Contact: Dan Uskoski - VP Sales Phone: 509-332-7526 2465 NE Hopkins Court Pullman, WA 99163 duskoski@metriguard.com www.metriguard.com



#### **Mid-South Engineering**

Mid-South Engineering is a full service, consulting engineering firm that provides a broad range of professional engineering services. Our multi-disciplined staff has served industrial as well as government and commercial clients with a particular expertise within the forest products industry. Mid-South has offices in Hot Springs, Arkansas; Cary, North Carolina; and Orono, Maine. Established in 1969, MSECO has since grown steadily in knowledge and experience. Our services include Engineering, Project Development, Project Management, and Construction Services. We welcome projects from small troubleshooting efforts to large greenfield plant installations, as Owner's Engineer or as part of a turn-key project.

Contact: Scott Stamey - Vice President Phone: 919-481-1084 200 Mackenan Drive Cary, NC 27511 sstamey@mseco.com www.mseco.com



#### Mill Machinery LLC

Mill Machinery is a provider of new and reconditioned machinery to the veneer and panel industries. Mill Machinery's inventory of production machinery includes veneer lathes, veneer stackers, dryers, plywood presses, sawlines, grade bins, panel feeders, sanders, hogs and related support equipment. Mill Machinery's Magnum line of new machinery includes press loading/unloading systems, press platens, hydraulic units, flying saws, panel feeders, panel stackers and conveyors.

Contact: Tim Peterson - President Phone: 503-720-0540 31678 South Highway 213 Molalla, OR 97038 tim@millmachinery.net www.millmachinery.net

#### **NESTEC, Inc.**

NESTEC, Inc. is a turnkey provider of thermal oxidation systems for the wood products industry including regenerative thermal oxidizers (RTO) including on line bake out, regenerative catalytic oxidizers (RCO), process scrubbers, Wet Electrostatic Precipitators (WESP), duct design, secondary heat recovery, system upgrades, energy audits, inspections and parts. Our key staff of engineers has over 300 years of experience in the field of thermal oxidation and has participated in solving air emissions problems for the wood products industry since the early 1990s. Whether you need a new air pollution control system or require upgrades and improvements to an existing RTO-WESP system, NESTEC, Inc. is your best resource to ensure a successful project.

Contact: James L. Nester - President Phone: 610-323-7670 222 East Main Street Pen Argyl, PA 18072 jnester@nestecinc.com www.nestecinc.com

#### Nextwire



Nextwire is a North American company with over 50 years of manufacturing and engineering experience in woven fabrics for the Engineered Wood Industry. Nextwire CleanSheen II caul and press

screens have greatly impacted the industry with extended life resulting in lower cost per board foot. Nextwire can provide these screens with attached tow bars which are manufactured from stainless or plain steel. All caul screens, press screens, and tow bars are manufactured to individual mill site specifications Nextwire also manufactures preheater, intermediate and tray belts as well as a variety of products in stainless steel and synthetic material. Contact: Charlie Brown - Vice President of Sales

Phone: (870) 628-6378 701 E. Arkansas Ave P.O. Box 159 Star City, AR 71667 cbrown@next-wire.com www.next-wire.com

#### Nicholson Manufacturing Ltd.

Industry Leader in ring debarking technology since

Contact: Russell Huband - NCVS Manager Phone: 250-654-2235 9896 Galaran Road PO Box 2128 Sidney, BC V8L 356 Canada forestsales@nmbc.com www.debarking.com



#### **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, over the last 30 years 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-toreach parts of the equipment. Contact: Ed Hauldren - VP of Operations

Phone: 304-562-6835 2825 US Route 60 East PO Box 220 Hurricane, WV 25526 ed@nisforndt.com www.nisforndt.com

#### **OCI Melamine Americas**

OCI Melamine is a melamine crystal supplier. Melamine crystal is used in the manufacture of formaldehyde based resins commonly found in decorative surfaces, OSB, plywood and other panel products.

Contact: Lee Miller - Application Support Phone: 800-615-8244 Rhonda Pizzolato - Customer Service rhonda.pizzolato@ocimelamine-all.com c/o Advanced Louisiana Logistics - ALL 501 Louisiana Avenue, Suite 201 Baton Rouge, LA 70802 info.melamine@ocinitrogen.com www.ocimelamine.com





#### Owens Corning - InterWrap

InterWrap® is the largest supplier of coated woven wrap to the Engineered Wood Industry. Its customprinted WeatherPro packaging products are designed to maintain product integrity throughout transportation, inspection and storage of sawn lumber, plywood, OSB, all types of beams, I-Joists and composite wood products. InterWrap is a vertically integrated, global manufacturer of innovative coated woven products serving a wide variety of markets. Consistent product quality is achieved by using state-of-the-art equipment along with a strong commitment to partnership with our customers, employees, and suppliers. InterWrap's global supply chain efficiency is achieved by our strategic manufacturing and distribution centers located throughout North America, Asia & Europe. Contact: Clive Mills - Sales Director

Phone: 262-389-0695 2650 Fassitt Road, Bldg. #200 North Charleston, SC 29406 USA Clive.Mills@owenscorning.com www.interwrap.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.

Contact: Rolf Gren - General Manager Phone: 973-471-1450 820 Bloomfield Avenue Clifton, NJ 7012 info@pallmannindustries.com www.pallmannindustries.com

#### Panel Machinery & Controls, LLC

At Panel Machinery & Controls, our focus is to provide the most up to date and trouble free Equipment design, Servo Motion Control and Automation systems for the Engineered Wood Products Industry. Our engineering staff has years of experience in quality-designed and field proven equipment and controls for the Plywood Industry. We have service technicians experienced with hydraulic & electrical motion control, capable of on-site trouble shooting and programming of all brands of PLC's and motion controllers. We are a United Laboratories 508A certified panel shop experienced in custom panel design and fabrication. Call or E-mail for more information. Contact: Roger Daniels - President

Phone: 503-744-0830 5422 SE International Way Milwaukie, OR 97222 roger@panelmachinerycontrols.com www.panelmachinerycontrols.com



# Panel World Magazine / Hatton-Brown Publishers, Inc.

Panel World publishes six issues per year for domestic and international readership with emphasis on mill project startup articles. Product coverage includes structural and non-structural wood products. Panel World also hosts the biennial Panel & Engineered Lumber International Conference & Expo (PELICE), to be held March 12-13, 2020.

Contact: Rich Donnell - Editor Phone: 334-834-1170 225 Hanrick Street PO Box 2268 Montgomery, AL 36104 rich@hattonbrown.com www.panelworldmag.com



#### **Paneltech**

Paneltech 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 best performing 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 product's end use.

Contact: Ron Iff - General Manager Phone: 360-538-1480 2999 John Stevens Way Hoquiam, WA 98550 riff@paneltechintl.com www.paneltechintl.com



#### Permapost

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

Contact: David Bond - Chief Operations Officer Phone: 503-648-4156

4066 SE Tualitan Valley Highway PO Box 100

Hillsboro, OR 97123 david@permapost.com www.permapost.com



#### Raute

As a global leader in machinery manufacturing, Raute is a partner that has extensive expertise in wood products technology. Raute enables its customers to create value added forest assets by supplying technologies and services for profitable and sustainable production of veneer, plywood, and LVL. Raute continually leads the market in developing cutting-edge advancements for large mill-wide projects as well as individual process lines, line modernizations, and equipment upgrades.

Contact: Martin Murphy – President, North America

Phone: 604-524-6611 Ext. 379 1633 Cliveden Avenue Delta, BC V3M 6V5 Canada martin.murphy@raute.com www.raute.com



#### **REA JET**

Because REA JET knows that real demands need real solutions, we continue to be a global leader of coding and marking equipment for the building materials industry. German engineered, our technology has been consistently designed and developed to withstand the demands of harsh production environments. Our extensive line of technology includes Large Character Ink Jet Printers (DOD), zero maintenance High Resolution Ink Jet (HP) printers as well as Laser and Spray Mark systems. Contact REA JET today to learn more about our products, capabilities and service offerings.

Contact: Nicole Richie - Marketing Manager

Phone: 440-332-0555 7307 Young Drive Walton Hills, OH 44146 nrichie@reajetus.com www.reajetus.com

#### **Rockwell Automation**

Innovative Industrial Automation. Rockwell Automation, the world's largest company dedicated to industrial automation and information, makes its customers more productive and the world more sustainable. Throughout the world, our flagship Allen-Bradley® and Rockwell Software® product brands are recognized for innovation and excellence.

Contact: Stephen Howell - Industry Manager Forest Products, NA

Phone: 770-754-8540 11575 Great Oaks Way, Suite 110 Alpharetta, GA 30022 slhowell@ra.rockwell.com www.rockwellautomation.com

#### **Samuel Packaging Systems Group**

With over 50 years serving the lumber and forest products industry, Samuel Packaging Systems Group 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, stretchwrap, 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. Contact: Bob Hadden - Forest Industry Manager

Phone: 800-667-1264 2278 - 192nd Street, Unit 109 Surrey, BC V3S 3X2 Canada

bob.hadden@samuel.com www.samuelstrapping.com

#### Sansin Corporation (The)

Backed by over 30 years of proven performance with large commercial, residential and mass timber wood buildings and structures, Sansin is the global leader in developing high-performance factory finishes that deliver the color, durability and performance that architects, engineers and builders can count on. From undercoats, treatments and preservatives to finishes and fire retardants, Sansin's Precision Coat products provide wood protection for a variety of substrates and engineered wood products, including crosslaminated timber, siding, OSB, glulam, millwork and timbers. Sansin continues to deliver environmentally friendly wood coatings that enhance performance without compromise.

Contact: Caroline March-Long - Director of Sales and Marketing Phone: 519-245-2001 111 MacNab Ave.

cml@sansin.com www.sansin.com

Strathroy, ON N7G 4J6 Canada

#### SASCO Chemical, A PSG Company

Polymer Solutions Group is an innovative manufacturer of proprietary and custom polymer additives, dispersions, and performance chemicals for the rubber, wood, consumer, construction, and medical industries. SASCO's TechKote® Release Agents, Additives, and Platen Conditioners are chemically formulated for all composite and structural panel applications. Together we strive to deliver customer-centric solutions that improve our customers' products, processes and performance.

Contact: Bill Holbrook - Director of Sales Phone: 706-766-6888

827 Pine Avenue

bholbrook@polymersolutionsgroup.com www.polymersolutionsgroup.com

#### **SEMCO**

SEMCO helps businesses cut lighting energy cost by 60-75% through turnkey LED lighting retrofits. We obtain utility, state, and federal incentives to pay for a large percentage of the new lighting. We represent our customers and buy directly from leading US LED manufacturers, securing the best prices, the longest warranties, and the most effective lighting solutions. From design and layout to project management, we handle the entire lighting upgrade, creating a brighter, safer work environment and improved bottom line for our customers.

Contact: James Fletcher - President

Phone: 251-747-0501 731 Wedgewood Drive PO Box 4724 Gulf Shores, AL 36542 jimf@thesemco.com www.thesemco.com

#### Siempelkamp LP

Siempelkamp is a systems supplier of complete process equipment for the wood-based-panel industry. In addition to the ContiRoll generation 9 Continuous press, Multi-opening presses, as well as sanding, cut to size and stacking lines for the panel board industry, Siempelkamp provides the full range of process machinery. With its subsidiaries Sicoplan, the engineering company for complete plant engineering; Pallmann for debarking lines, chippers, stranders, and other size reduction machinery; Buettner for energy systems, dust and multi-fuel burners and dryer systems, the complete process machinery portfolio is covered. Siempelkamp LP provides the service support, modernizations and spare parts for North America.

Contact: Dirk Koltze - President Phone: 704-424-4141 200 N. Cobb Pkwy., Suite 302 Marietta, GA 30062 d.koltze@siempelkamp-usa.com www.siempelkamp-usa.com



#### **Signode Packaging Systems**

Signode is a global manufacturer of steel and plastic strapping and the application equipment and accessory products for each. Our protective packaging systems for the Lumber and Panel Industries are centered around the material that ultimately secures loads for handling, shipping and storage, plastic or steel strapping. We offer a full range of application tools, equipment and accessories to complete your strapping system. Our Forest Products Industry sales, equipment service, customer service and engineering departments can help you design the optimum protective packaging system for your application. Contact: Claude Gregory - Forest Products Industry Manager

Phone: 828-850-9777 3624 West Lake Avenue Glenview, IL 60024 cgregory@signode.com www.signode.com



#### **SMARTECH**

Smartech is a leading global technology company focused on generating game changing technologies to production lines of manufacturing sectors. With its wax technology, changing the way wax is handled in production lines and creating significant savings, Smartech is trusted by the world's leading manufacturers to supply their new high-value innovative technologies.

Contact: Hanoch Magid - President

Phone: 972-4-6377757 7 Chalamish Street

Caesarea, Israel 3088900

hanoch@TIPinnovation.com

USA contact: Rami Arbili - Director of North & South

America

Phone: 925-322-7373 411 Waverly Oaks Road #420 Waltham, MA 02452

rami.arbili@smartech.com www.smartech.com

#### **SonicAire**

SonicAire is a progressive air-engineering firm that eliminates the problems with combustible dust through its line of SonicAire® fans. SonicAire Systems apply our proprietary and innovative BarrierAirea technology, which delivers enterprise-wide continuous clean through robotic engineering design. Products create high velocity and high mass airflow to create an overhead barrier preventing combustible particles from accumulating on steel structures, pipes, ducts and process equipment. Solutions include an engineered and customized plan for every application since factories AND fugitive particles vary by the materials processed. Contact SonicAire Sales support at 336-712-2437.

Contact: Chuck Morrison - Corporate Sales Manager

Phone: 336-712-2437 3831 Kimwell Drive Winston-Salem, NC 27103 cmorrison@sonicaire.com www.sonicaire.com

#### **SparTek Industries**

SparTek 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. SparTek'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 SparTek. 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.

Contact: Mike Cook - CEO Phone: 503-283-4749 2221 North Argyle Portland, OR 97217 mike.cook@spartek.com www.spartek.com



#### Spraying Systems Co.

#### Spraying Systems Co.

Spraying Systems Co. is the world's leading manufacturer of spray technology equipment. Our offering includes a family of PanelSpray® systems for applying release agents, moisture, resin, wax or other various chemistries to wood substrate, mats, cauls or belts. These systems ensure the precise volume of fluid is applied even when operating conditions like wood throughput or line speed change. Our line also includes a PanelSpray System for precise nail marking on oriented strand board and the industry's largest selection of spray products for use in humidifying, marking, cleaning and coating operations. We serve our customers around the world from our 12 manufacturing facilities and 90 sales offices.

Contact: Brian Valley - Director - Industrial Solutions Phone: 630-517-1283 100 W. Lake Dr. Glendale Heights, IL 60139 brian.valley@spray.com www.spray.com



Total Surface Quality

#### Steinemann Technology USA, Inc.

Established in 1917 For Total Surface Quality, Steinemann provides complete solutions for the entire sanding process: from high performance, cutting edge sanding machines, to top quality sanding belts, smart Sprint insert systems and an innovative process control system. Customers benefit from a cleverly designed modular machine concept which fits their specific needs and finishing quality. The result is a consistent panel quality, maximum availability and best cost efficiency. Steinemann's portfolio is rounded off by a broad range of global sales and service networks. With headquarters in St. Gallen Switzerland and hubs in China, Malaysia, Russia and Charlotte, NC, USA, Steinemann fulfills its promise and is close to the customer's site.

Contact: Dan Murphy - President Phone: 704-522-9435 4607 Dwight Evans Road Charlotte, NC 28217 d.murphy@steinemann.com www.steinemann.com



#### **Stratachem Solutions Group LP**

Stratachem Solutions Group LP provides chemical solutions specifically for the wood products industry. With over 50 years of technical wood products experience, and a world class research and development group, we are prepared to take on tough process issues. We specialize in release agents for continuous and multi-opening presses, as well as environmental equipment chemical solutions. WESP water treatment chemistry, to keep WESPs and RTOs running up to design capacities. We are dedicated to customer satisfaction and understand the importance maintaining the highest levels of process efficiency while decreasing the cost of manufacturing. Contact: Mike Larke - General Manager Phone: 866-489-WESP (9377)

PO Box 60750, 1109 Woodland St. Nashville, TN 37206 mlarke@stratachemsolutions.com www.stratachemsolutions.com



#### Sweed Machinery, Inc.

Sweed is known in the industry as the superior choice for providing full veneer dryer infeed and outfeed systems, veneer saws, turners, and hoists. Sweed also specializes in all replacement parts for Raimann and Skoog patchers, and manufactures, sharpens and repairs patcher dies. Sweed provides the latest technology and exceptional craftsmanship; helping processors achieve higher production goals with less downtime. Based in Oregon, USA, Sweed offers unmatched quality, customer service, engineering and technical support.

Contact: Kevin Gordon - Sales Director Phone: 866-800-7411

653 2nd Avenue

653 2nd Avenue PO Box 228 Gold Hill, OR 97525 sweed@sweed.com www.sweed.com



#### Taihei Machinery Works Ltd.

Taihei is a specialized manufacturer of veneer and plywood machinery, fully committed to the development and production of equipment that meets customer needs. We are driven by the goal of providing proprietary machinery that is second to none to our customers around the world. Taihei is the leading manufacturer of automatic knife grinding and honing machines. Other Taihei products include horizontal hot presses up to 140 openings, veneer jet dryers, veneer stackers, glue spreaders, reeling systems, and finger jointing equipment. Contact: Daisuke Ishida - Sales Person Phone: Phone: +81-568-73-6421 955-8 Miyamae Irukade-Shinden Komaki, Aichi 4850084 JAPAN d\_ishida@taihei-ss.co.jp www.taihei-ss.co.jp

# ZS TEBULO INDUSTRIAL ROBOTICS

#### **Tebulo Industrial Robotics**

www.tebulo-na.com

Tebulo provides the newest and most advanced technology for marking, labeling, barcoding, cardboard application, material handling, and other custom solutions in the wood products industry. Tebulo uses robotics for stenciling sidewall identification as well as end striping and coding. One system for both applications with availability to use multiple colors. Tebulo's innovative cardboard application system places and staples cardboard on all sides of a package, ensuring your products are well protected. Robots present high reliability and minimal maintenance. Our systems come with a guarantee to perform at over 99% reliability. Let your product stand out from the competition Contact: Jon Vanspronsen - System Sales Phone: 905-639-7370 70 Lancing Drive Hamilton, ON L8W 3A1 Canada jvanspronsen@tebulo-na.com

#### TSI

TSI designs and manufactures complete panel finishing lines for OSB, particleboard and MDF. This includes saws with such features as automatic position change and adjustable blade exposure. High-speed sorting and stacking of panels is easily achievable with TSI's "primary stacker" solution. TSI also supplies Heat Energy and Drying and Pollution Control 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. Heat Energy includes Step Grate Furnaces in conjunction with Sigma Thermal and Pollution Control Solutions include Wet ESP and RTO systems developed by TSI to work at optimum efficiency with TSI Dryers.

Contact: Andrew Johnson - Vice President Phone: 425-771-1190 Ext. 128 20818 44th Avenue West Suite 201 Lynnwood, WA 98036-7709 ajohnson@tsi-inc.net www.tsi-inc.net

#### **Union Pacific Railroad**

Union Pacific Railroad is the principal operating company of Union Pacific Corporation (NYSE: UNP). One of America's most recognized companies, Union Pacific Railroad connects 23 states in the western two-thirds of the country by rail, providing a critical link in the global supply chain. From 2006-2015, Union Pacific invested \$33 billion in its network and operations to support America's transportation infrastructure. The railroad's diversified business mix includes Agricultural Products, Automotive, Chemicals, Coal, Industrial Products and Intermodal. Union Pacific serves many of the fastest-growing U.S. population centers, operates from all major West Coast and Gulf Coast ports to eastern gateways, connects with Canada's rail systems and is the only railroad serving all six major Mexico gateways. Union Pacific provides value to its roughly 10,000 customers by delivering products in a safé, reliable, fuel-efficient and environmentally responsible manner. Contact: Anne Brummett - Sr. Business Manager -

Panel Products Phone: 402-544-5209 1400 Douglas Street Omaha, NE 68179 ambrummett@up.com www.up.com

# 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 nine faculty conducting research on forest products, sustainable biomaterials and bioenergy, http://renewablecarbon.tennessee.edu/. The laboratories include wood composite laboratory steam-injected presses, destructive testing lab, conditioning chambers, dry kiln laboratory and new laboratory capabilities for sustainable biomaterials preprocessing, pretreatment research, thermochemical and biochemical conversion, and product analysis. Also, unique analytical capabilities for nanotechnology sustainable biomaterials are available. The CRC has M.S. and Ph.D. concentrations in Sustainable Biomaterials and Wood Science Technology. The CRC provides world-class industry training programs in SPC/Lean, DOE, and data mining. Contact: Timothy Young - Ph.D. - Professor

2506 Jacob Drive
Knoxville, TN 37996-4570
tmyoung1@utk.edu
www.spc4lean.com

# **USNR**

#### **USNR**

With the addition of Ventek's veneer scanning, grading, and handling solutions to USNR's lathe, dryer, and downstream product portfolio, USNR now offers tightly integrated mechanical and optimization solutions for the plywood industry. USNR products are known to increase recovery, value, and yield, improving mill profitability. USNR also manufactures machinery for beam lamination, finger-jointing, and presses for the composite board industry. Committed to superior customer service, USNR offers OEM parts, training, and 24/7 support around the globe. 800-BUY-USNR.

Contact: Chris Van Ackeren - Sales Manager, Veneer Systems

Phone: 360-225-8267 1981 Schurman Way PO Box 310 Woodland, WA 98674 chrisvanackeren@usnr.com www.usnr.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 14118 Route 8-89 PO Box 239 Wattsburg, PA 16442 nvogel@venangomachine.com www.venangomachine.com

#### **Veneer Services, LLC**

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Phone: 317-346-0711 50 Washington Street, 3B Columbus, IN 47201 dane@veneerservices.com www.veneerservices.com



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Contact: Charles Stout - East Coast Phone: 541-953-5783 905-336-1216 Ext. 2251 Gregg Hale - West Coast 4365 Corporate Drive ghale@walkerind.com, Canada cstout@walkerind.com www.walkerind.com

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Phone: 613-796-1606 3803 West Chester Pike Suite 240 Newton Square, PA 19073 USA jacob.sturgeon@us.whchem.com www.whchem.com



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Contact: Mike Crondahl - President, Owner Phone: 604-607-7010 3063 275 A Street Aldergrove, BC V4W 3L4 Canada crondahl@westmill.com www.westmill.com



#### WVCO

#### Willamette Valley Company

Willamette Valley Company manufactures epoxies, putties and urethanes for upgrading all wood substrates, and also makes a wide range of water based coatings, primers and sealers. Willamette also makes many fillers and extenders for wood adhesives and plywood glues. Pretec, the company's equipment solutions division, specializes in the design and manufacture of advanced fluid systems and the integration of robotic application systems.

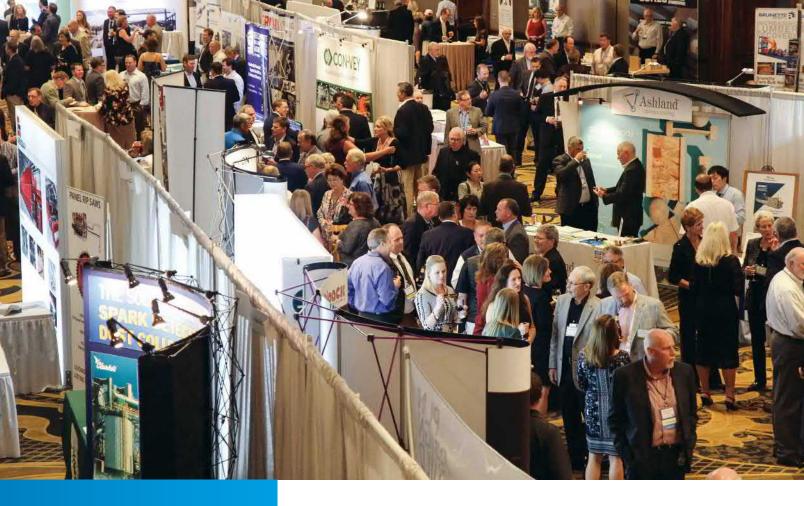
Contact: Tony Vuksich - Vice President
Phone: 541-484-9621

990 Owen Loop PO Box 2280 Eugene, OR 97402 tony.vuksich@wilvaco.com

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Contact: Doug Steed - VP Business Development Phone: 318-812-2800 228 Industrial Street West Monroe, LA 71292 dsteed@wpsindustries.com www.wpsindustries.com



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# **INFO FAIR 2018**

**EWTA Members Gather for Annual Supplier Exhibition** 

WTA members and guests from around the world gathered in San Antonio Oct. 27-29 for the Engineered Wood Technology Association's annual Info Fair supplier exhibition. Info Fair is an opportunity for

members to share ideas and network with others in the engineered wood industry, and the event is held annually in conjunction with APA's Annual Meeting. This year, 87 EWTA member companies exhibited at the event, and 61 sponsored.

Info Fair was held at the La Cantera Resort and Spa.

In addition to Info Fair, the annual extended weekend also provides an opportunity for both EWTA and APA members to attend APA-sponsored

Continued page 51































EWTA members posed for the association's annual group photo.









Info Fair 2019 will be in Tucson, Ariz., this year; the land of saguaro cacti and sunny skies. The event will be held Nov. 2-4 at the JW Marriott Starr Pass Resort & Spa. Registration opens April 15. For information, visit www.engineeredwood.org and click on Events and Programs, or email coordinator Emily Houg at emilyh@engineeredwood.org







Continued from page 48

workshops, participate in roundtable discussions and listen to presentations about association activities. Members also took part in numerous receptions, luncheons and sporting competitions, including the annual golf tournament, cripple coot shoot and Ole Sorenson Memorial Tennis Tournament.



#### **Industry Intelligence helps you grow**

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# **SUPPLIER EXCELLENCE**

EWTA Members Recognized in Annual Supplier Awards Program

by Sheila Cain



EWTA honored the winners of the 2018 EWTA Supplier of the Year Awards at the Chairman's Dinner during APA's Annual Meeting last October. From left: James Slay, Arclin; Dale Brown, USNR; James Wright, Arclin; Rich Donnell; Hatton Brown/Panel World magazine; John Murray, Willamette Valley Company; Jim Enright, vice-chairman, APA Board of Trustees; and Terry Kerwood, EWTA managing director.

our EWTA member companies were honored during the Chairman's Dinner at the APA Annual Meeting in San Antonio, Texas, Oct. 29 for excellence in the industry. The companies were winners in EWTA's annual Supplier Awards program. The two-pronged program includes the Supplier of the Year Award (three categories) and the Innovation of the Year Award.

The Supplier of the Year Awards are based on the quality, service and delivery of EWTA member products and services to APA member companies. The

awards are presented for each of EWTA's membership categories: Equipment and Tooling, Materials and Supplies, and Consulting and Services. The Innovation of the Year Award recognizes a company providing a new technology, product or service that has been shown to reduce production costs, increase productivity, improve product quality, or in some other way provide a bottom line benefit to APA members.

The award winners are selected by votes of APA member representatives.



Supplier of the Year and Innovation of the Year award winners take home trophies for their hard work.

50

#### WINNERS OF THE 2018 SUPPLIER OF THE YEAR AWARDS ARE:

#### **EQUIPMENT/TOOLING CATEGORY**

#### **USNR**

USNR recently acquired the business of Ventek, Inc., the industry leader in veneer scanning, grading, and handling systems for the plywood industry. This rounds out USNR's line of plywood machinery that includes 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.



Terry Kerwood (left), EWTA managing director, congratulates USNR employees (from left, Alan Knokey and Dale Brown) for their Supplier of the Year Award in the Equipment/Tooling category. At far right is Jim Enright, APA vice-chairman.

#### **MATERIALS/SUPPLIES CATEGORY**

#### **Willamette Valley Company**

Willamette Valley Company manufactures epoxies, putties and urethanes for upgrading all wood substrates, and also makes a wide range of water-based coatings, wvcoprimers and sealers. Willamette also makes many fillers and extenders for wood adhesives and plywood glues. Pretec, the company's equipment solutions division, specializes in the design and manufacture of advanced fluid systems and the integration of robotic application systems.



Willamette Valley Company employees (and a few spouses) joined EWTA Managing Director Terry Kerwood (far left) on stage to accept their Supplier Award. From left are Kerwood, Mark Dewar, Donny Arrington, Cathy Rudinsky- Board of Directors, John Harrison, APA Board of Trustees Vice-Chairman Jim Enright, Tony Vuksich, John Murray, Kurt Russell, Randy Green, Pam Green, Robert Pitts, Leslie Pitts, Mindy Sakraida, Tom Sakraida and Mark Osuna.

#### **CONSULTING/SERVICES CATEGORY**

#### **Panel World Magazine/Hatton Brown Publishers**

Panel World
VENER - RIVNOOD - COMPOSITES - EMPINATES -

Panel World publishes six issues per year for a domestic and international readership with

emphasis on mill project startup articles. Product coverage includes structural and non-structural wood products. Panel World also hosts the biennial Panel & Engineered Lumber International Conference & Expo (PELICE).



EWTA Managing Director Terry Kerwood congratulates Rich Donnell with *Panel World* Magazine/Hatton Brown Publishers for his company's win in the Consulting/Services category.

#### INNOVATION OF THE YEAR AWARD

#### **Arclin: Enhanced Bond Technology**

Arclin's Enhanced Bond Technology is specifically designed to improve adhesive flow, penetration, and ultimately the bond quality on wood surfaces that are notoriously difficult to bond. Resins incorporating Enhanced Bond Technology better cut through the chemically modified veneer surface to improve adhesive flow and penetration and to increase the depth and consistency of wood failure when gluing overdried veneer.



From left, Terry Kerwood, EWTA managing director; James Dantzler, Arclin, James Wright, Arclin; James Slay, Arclin; and Jim Enright, vice-chairman, APA Board of Trustees.

# A CLOSER LOOK

**CORRIM Continues to Assess Wood's Performance** 

by Maureen Puettmann

oday's designers and specifiers of building materials consider environmental impacts when making the choice of which material to use. Wood products have many positive environmental attributes that may help position wood as a material of choice. However, other building materials producers also make environmental claims to position their materials as positive environmental choices. Without a systematic, scientific basis to assess environmental attributes, sorting out environmental claims can turn into a subjective battle where slick marketing ads can win out over true environmental attributes.

Fortunately, the wood industry had the foresight many years ago to invest in and embrace scientific methods to assess the environmental impacts of wood production and use. These methods, now embodied in various ISO standards, provide the basis to measure the cradle-to-grave impacts of material use. This gives the wood industry a solid technical and transparent basis to foster confidence in using wood products.

#### Updating EPDs on Engineered Wood

Beginning in 1996, with support from various wood associations and producers, the nonprofit Consortium for Research on Renewable Industrial Materials (CORRIM) has developed comprehensive life cycle analysis (LCA) documents on the environmental performance of wood building materials. The CORRIM website is host to more than 60 LCA reports and more than 30 refereed publications documenting the environmental impacts of forestry operations and the production of solid wood products and engineered wood products.

CORRIM researchers have produced LCAs on U.S.-produced plywood, oriented strand board, laminated strand lumber, laminated veneer lumber, glulam beams and engineered wood I-joists, to

name a few. The final result of the LCA study for a material is the publication of an Environmental Product Declaration, or EPD, which reports the environmental impacts linked to a product or service. The EPD serves to communicate the environmental performance of a product to consumers. (See side story, What is an EPD?)

In accordance with ISO standards, the underlying data used to develop EPDs must be refreshed on a periodic basis. In 2012, CORRIM set out to update the original reports commonly known as the Phase I Research Reports by collecting production data from engineered wood producers located in the Pacific Northwest and southeast U.S.

The need for updated data was to remain in conformance with the North American Structural and Architectural Wood Products PCR and to update the current EPDs set to expire in April 2019. The wood product production data were collected from individual facilities on a voluntarily basis. Industry participation is vital for the quality of the LCAs and EPDs. The number of wood product manufacturers participating was higher in these last surveys compared to the original surveys for Phase I. The wood industry has an increased interest in quantifying the environmental footprint of their production, which resulted in a greater willingness to participate. The resulting benefit of increased participation means the overall data quality is higher.

#### **Changes in Latest Reports**

Some of the changes between the original Phase I reports and the latest reports is the requirement for performing the LCA based on an economic allocation versus a mass allocation. Using an economic allocation means the environmental impacts produced are allocated to the product

Table 1

Pacific Northwest Glulam Allocation used for a Mass or Economic Allocation Approach<sup>1</sup>

Glulam Production	Mass Allocation	Economic Allocation	
Glulam (product)	88%	100%	
Co-Products	12%	0%	
Total	100%	100%	
Lamstock Production	Mass Allocation	Economic Allocation	
Lumber, Rough Green	50%	86%	
Chips, Green	24%	11%	
Bark, Green	6%	1%	
Hog Fuel, Green	14%	1%	
Sawdust, Green	6%	1%	
Total	100%	100%	

<sup>&</sup>lt;sup>1</sup> Bowers et al. 2017. CORRIM: Report – Module G1 Cradle-to-Gate Life-cycle assessment of glued laminated timbers US Pacific Northwest region.

based on value, not a mass balance (see Table 1 below). The latest CORRIM LCA reports show that when an economic allocation is performed, environmental impact associated with the main product increased. The magnitude of the shift in environmental burdens versus a mass allocation can vary by product, raw material input and type of co-products produced.

An economic allocation approach can be appropriate in production where low-value, high-volume co-products are common. However, there remains a large uncertainty in the pricing of wood products and co-products and their use as an allocation method in LCA.

In the CORRIM LCA reports, several impact categories (energy consumed, fresh water consumption, raw material used and waste) are reported (see Table 2). Renewable biomass used for heat

energy in wood products facilities represents a major portion of the total energy demand. In all but I-joist production, biomass energy represents between 53 and 63 percent of the total energy use for the EWP. This results in a large reduction in the non-renewable energy used to produce many wood products. Solid waste and non-renewable materials are low in EWP production.

Forest management scenarios consider the CO<sub>2</sub> uptake by trees and its storage as carbon. When the trees are harvested, the carbon leaving the forest is considered an emission. This accounting principle is important because it prevents double accounting. For example, biomass when burned (biogenic carbon) for energy is not accounted as a greenhouse gas and is therefore not part of the global warming potential value. Furthermore, this allows for the harvested wood prod-

uct carbon to be reported as a carbon store over a long period of time. This treatment of carbon is consistent with the Intergovernmental Panel for Climate Change (IPCC 2006). The difference of the carbon stored in the product and carbon emissions released during production is the net carbon emission. Using the IPCC carbon accounting method, all EWP store more carbon in the wood product than is released during production. Here, the CO<sub>2</sub> uptake for wood and bark is determined by multiplying the product process input dry weight of wood and associated bark by 1.83 using a 50 percent carbon content of wood and bark and the molecular weight of CO<sub>2</sub> at 3.664.

#### Continuing need for data

CORRIM has reported over the last decade the role carbon will play as a metric

IABLE 2	
ENVIRONMENTAL IMPACT ASSESSMENT RESULTS FOR FOLIR FWPS? PRODUCED IN THE PACIFIC NORTHWEST LIS	

PER CUBIC METER (M3)		PLYWOOD	GLULAM	LVL	I-JOISTS
Impact Categories					
Global warming potential	kg CO2 eq.	143	116	218	263
Acidification Potential	H+ moles eq.	1.60	1.22	2.29	2.61
Eutrophication Potential	kg N eq.	0.06	0.05	0.08	0.10
Ozone depletion Potential	kg CFC-11 eq.	0.00	0.00	0.00	0.00
Smog Potential	kg O3 eq.	25	25	31	35
Energy					
Non-renewable fossil	MJ	2,440	1,647	3,740	4,599
Non-renewable nuclear	MJ	235	137	318	2.22
Renewable, biomass	MJ	4,610	3,268	4,710	3,321
Renewable (other)	MJ	148	95	196	152
Total Energy	MJ	7,433	5,148	8,964	8,074
Other Reporting Requirements					
Non-renewable materials	kg	5.81	9.37	5.11	3.38
Renewable materials	kg	640	510	862	615
Fresh water	L	1060	458	1220	1127
Solid waste	kg	11.80	8.84	9.15	6.79

<sup>&</sup>lt;sup>2</sup> Puettmann et al. 2017. www.corrim.org; Bowers et al. 2017. For Prod. J. 67(5/6)2017(368-380); Bergmann and Alanya-Rosenbaum. 2017. For Prod. J. 67(5/6)2017(343-354); Bergmann and Alanya-Rosenbaum. 2017. For Prod. J. 67(5/6)2017(355-367)

#### What is an LCA?

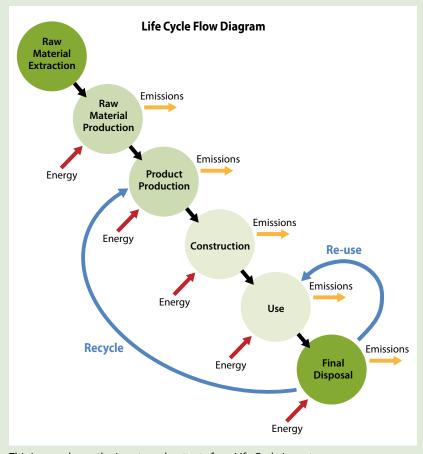
Life-cycle assessment, commonly referred to as "LCA," has evolved into the internationally accepted method to analyze the environmental impact of a product. An LCA begins with a collection of inputs and outputs that occur during the production process. Common inputs are fuels, energy and raw materials, while outputs are emissions to air, water and land, as well as the main product and any associated co-products.

These inputs and outputs are referred to as the life cycle inventory (LCI). The LCA methodology can also determine potential impacts of production, use and disposal. A life cycle impact assessment (LCIA) takes the life cycle inventory output and categorizes each output into a set of potential impacts.

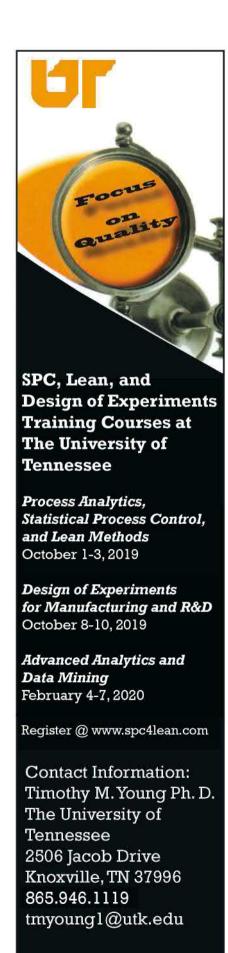
In North America, some of the potential impacts reported in LCAs are global warming potential, acidification, eutrophication, ozone depletion and smog. Energy use is also reported and listed as coming from fossil, nuclear, biomass, hydro, solar or wind sources.

LCAs also are performed under a defined system boundary. For example, the LCA might only include activities on-site at a production facility, which would classify the LCA as a gate-to-gate. A cradle-to-gate could refer to all activities from resource extraction through production or construction. A cradle-to-grave would include extraction, production, use/maintenance and final disposal.

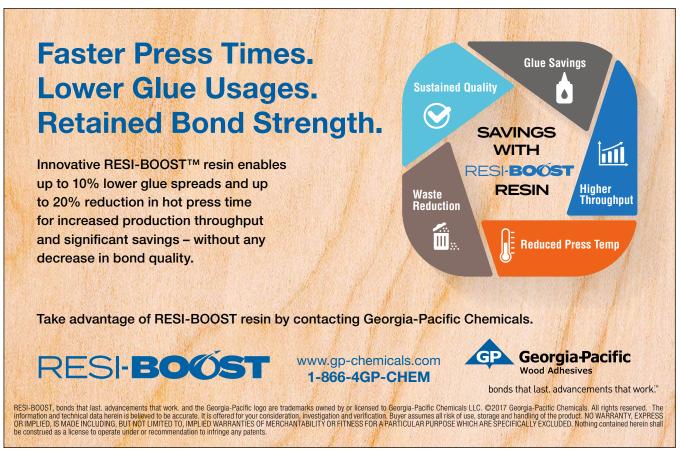
Designers and specifiers today are assessing building materials for their environmental impacts as well as the other functional aspects of products, such as structural performance, ease of installation and product durability. The LCA studies conducted by CORRIM ensure that the wood industry can provide the needed data to designers so that wood remains a viable and often preferred building material.



This image shows the inputs and outputs for a Life Cycle Inventory.







#### What is an EPD?

An Environmental Product Declaration, or EPD, is a standardized report of environmental impacts linked to a product or service. Data collected in an LCA can be summarized in an EPD. An EPD is similar to nutritional labels on food. It serves to communicate the environmental performance of a product to consumers.

EPDs are developed using a harmonized set of standards documented in a PCR (Product Category Rule). Under these standards, EPDs are consider a Type II environmental declaration. The PCR serves as a guide in the development of declarations for products that are comparable to others within a product category.

Reasons for publishing an EPD can vary by manufacturer. Usually a manufacturer or industry desire to better understand the environmental footprint of their product. While an LCA can pinpoint environmental hot spots in a product's lifecycle, they are lengthy and can be highly technical—neither of which appeals to a non-LCA audience. EPDs can fill the gap for producers who choose to disclose LCA results in a format that's readable to the public. EPDs can also be a good resource for consumers who can compare different products side-by-side when produced under the same PCR.

There are two types of EPDs: product specific and industrywide. For a product-specific EPD, an individual company conducts an LCA specific to its own production operations and develops the EPD for a particle product. In an industrywide EPD, data is based on an industry average. These usually involve multiple producers who develop the same product used for the same purpose. This is appropriate for commodity products, such as lumber and plywood, where production technology is not greatly different among them.

It is important to note that EPDs are not judgmental. There is no implied performance benchmark to achieve or show how "green" a product is. EPDs are there to be a guide to consumers, allowing them to make the decision.

EPDs for wood products are downloadable at www.awc.org/sustainability/epd

#### EPD "Nutritional" Label - Wood Products

Amount per Unit

LCA Impact Assessment		Total	Forestry Operations	Wood Products Production
Global Warming Potential	kg CO <sub>2</sub> eq.	143	11	132
Acidification Potential	SO <sub>2</sub> eq.	1.60	0.15	1.45
Eutrophication	kg N eq.	0.06	0.01	0.05
Smog	kg 03 eq.	25	5	20
Total Energy	MJ	7,425	165	7,260
Non-Renewable Resources	kg	6	0.01	6
Renewable Resources	kg	640	0.00	640
Water Use	L	1,061	11	1,050

#### **INGREDIENTS: CARBON**

The data collected in a Life Cycle Analysis can be summarized in an Environmental Product Declaration, or EPD. An EPD communicates the environmental performance of a product to consumers and resembles the nutritional labels found on foods.

for determining a product's sustainability. Over the last decade we have seen an increase in demand for wood product LCAs and EPDs. Architects and engineers are searching for accurate wood LCA information to help improve the environmental footprint of buildings. Although thorough in its reporting, we expect these latest LCA reports to face scrutiny and continuous updates to remain relevant. It is our goal that these wood product LCA reports will serve as building blocks in larger studies that assess the economic, social and environmental impacts of wood product use in current and emerging markets such as mass timber construction.

CORRIM is currently involved in updating softwood lumber and hardwood lumber production in the Inland Northwest and Northeast-Northcentral regions of the U.S.

Maureen Puettmann is the director of operations for CORRIM—The Consortium for Research on Renewable Industry Materials. For more detailed information on individual product LCAs, visit www.corrim.org. All reports are downloadable and free. For a copy of the Forest Products Journal CORRIM Special Issue-Forest Products Life-Cycle Analysis Update Overview, contact Puettmann at maureen@corrim.org.







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# **Three Retire, Three Join EWTA Advisory Committee**

Three long-time EWTA Advisory Committee members have retired from the committee, and three new members have stepped in to take their places.

Rick Nelson has been a committee member for three years. He stepped down from his position last fall and is retiring this spring as Weyerhaeuser's Kalispell (Mont.) plant manager where he's worked for the past three years. He worked in various management positions for Plum Creek/ Weyerhaeuser for 36 years before that. Christie Cordova, quality value yield manager for Georgia-Pacific Wood Products in Atlanta, has taken Nelson's spot on the committee. Cordova also serves on the APA Technical and Quality Advisory Committees and the Industrial Subcommittee for APA's Marketing Advisory Committee.

Dale Leeper, a member of the Advisory Committee since 2010 and PF Technology Manager for member company Hexion, retired from both positions Aug. 31, 2018. Leeper had also served on the APA standing committee that oversees revisions to PS

1 and PS 2. Hexion's Mark Clark has filled Clark's vacated seat.

Tim Fisher served on EWTA's Advisory Committee for many years, nine as vice-chairman. He also worked at USNR for 37 years, most recently in a business development role for the company's veneer/plywood division. He retired from both USNR and his vice-chairman role with EWTA last December, USNR's Chris Van Ackeren will assume Fisher's role on the Advisory Committee.

#### **EWTA Committee Recommends** 2019 Budget

The EWTA Advisory Committee finalized the association's 2019 budget during its meeting last October in San Antonio, Texas. The budget is for income of \$485,800 and expenses of \$484,800, resulting in a year-end net surplus of \$1,000 and cash reserves of \$238,839. The proposed budget was forwarded to the APA Board of Trustees for approval.

#### **EWTA Allocates \$80,000 For APA Research**

EWTA's Advisory Committee, at its meeting in San Antonio, Texas, last October, voted to recommend an allocation of \$80,000 to fund four projects benefiting the engineered wood industry. The project proposals, presented by APA staff, included:

- \$30,000 for an acoustic evaluation of a one-hour fire-rated I-joist assembly
- \$10,000 for residential market study on Wall Panelizers
- \$10,000 to complete the Build a Better Building series of educational videos
- \$30,000 to study VOCs from mass timber products used in commercial buildings

The recommendation was forwarded to the APA Board of Trustees as part of the overall EWTA budget for 2019. Research contributions, made possible by EWTA member support, continue to trend in a positive direction with more than \$350,000 invested since 2000.

#### **New EWTA Contacts For** Member Services, Info Fair

EWTA members now have two new contacts at the association, following last fall's retirement of former Member Services Director and Info Fair Coordinator Melinda Lilley.



Join us at Info Fair 2019!



The Engineered Wood Technology Association's Info Fair supplier exhibition held in conjunction with APA's annual meeting – provides face-to-face connection with leading engineered wood products industry decision-makers.

**REGISTRATION OPENS April 15** 

Early Bird Registration Ends August 30 Info Fair: November 2-4, 2019 JW Marriott Starr Pass • Tucson, Arizona

For more information: Emily Houg: emilyh@engineeredwood.org





www.engineeredwood.org • emilyh@engineeredwood.org • 253-448-3754

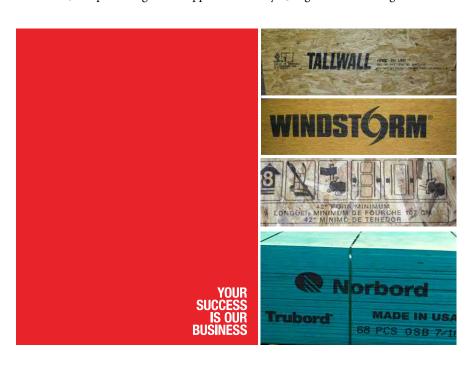
Emily Houg serves as the new Info Fair manager. Houg has coordinated special events and conferences across the U.S. for government agencies, associations and nonprofits and has held board positions with the Pacific Northwest Chapter of Professional Meeting Convention Association. She can be reached at emilyh@engineeredwood.org.

Also new to EWTA's team is Sydney Martin, the association's new member services coordinator. In this role, Martin manages membership directory updates, works with *Engineered Wood Journal* advertisers, and provides general support

to EWTA members, the managing director and Info Fair manager. She can be reached at sydneym@engineeredwood. org.

#### Date Set for 2019 EWTA Info Fair

It's not too early to start planning for the 2019 EWTA Info Fair and APA Annual Meeting. This year's events will be held Nov. 2-4 at the JW Marriott Starr Pass in Tucson, Ariz. Early Bird registration for Info Fair will open April 15. For more information, contact Emily Houg at emilyh@engineeredwood.org.



# INDUSTRIAL PRINTING AND LABELING SOLUTIONS

Samuel Packaging Systems Group offers a range of state-of-the-art industrial printing and labeling solutions to suit any application in the forest products industry.





# **EWTA Welcomes 2 New Member Companies**

Two companies have joined EWTA in recent months as new members. They are:

- Airstar Inc. of Irvine, Calif.; a manufacturer of quality control systems for the forest products industry. Its non-contact system can test all engineered wood products including plywood, LVL, OSB and glulam. President Jan Strycek can be reached at jan@airstar1.com
- Nextwire, of Star City, Ark.; with more than 50 years of manufacturing and engineering experience in woven fabrics. Nextwire CleanSheet II caul and press screens offer extended life resulting in lower cost per board foot. Vice-president of Sales Charlie Brown can be reached at cbrown@next-wire.com

# Dürr Acquires Division Of Babcock & Wilcox

Dürr Systems recently announced that it has acquired the industrial environmental technology business of Babcock & Wilcox.

The acquisition of Babcock & Wilcox's environmental technology specialists, MEGTEC and Universal, has meant significant growth for Dürr's environmental technology division, Clean Technology Systems.

With this acquisition, the company is broadening its business in Europe and North America to meet the growing demand for industrial environmental solutions in the regions, according to a press release announcing the deal.

# Dieffenbacher Wins Award For Knife Ring Flaker

Dieffenbacher was recently honored for its design of a knife ring flaker, a joint project between Dieffenbacher's Wood Business Unit and the Tübingen design firm defortec.

The product received the Focus Open Silver Award 2018 from a jury of the Design Center Baden-Württemberg. The jury said the design "graphically visualizes the enormous forces at work inside the machine during the flaking process and conveys solidity and reliability."

# Walker Environmental Opens Calgary Office

Walker Environmental, a division of Walker Industries, opened a new office in Calgary, Alberta, Canada, last fall. The new office marks the company's fourth location in Alberta.

# Wanhua Names Site of New Manufacturing Base

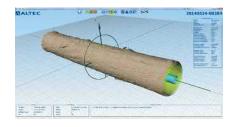
Wanhua Chemical recently announced that it will develop a new \$1.25 billion chemical manufacturing complex in Convent, St. James Parish, La. The new MDI plant has a capacity of 400 kilotons per year and will generate 1,000 construction jobs at peak activity. It will also create 170 new direct jobs with another 1,060 new indirect jobs.

Construction is set to start this year, with operations anticipated to begin in 2021. Wanhua currently operates fully integrated MDI manufacturing complexes in Yantai, Ningbo and Zhuhai, China; and Kazincbarcika, Hungary.

# Altec Installs Scanner For New Client

Altec Integrated Solutions recently completed its first installation of charger controls and its Altec XY Scanner in the hardwood industry. The job included the installation and commissioning of the controls and scanner for Columbia Forest Products.

The Altec team reused the existing charger PLC and IO components, in addition to providing the client with a new XY laser scanning system and solutions PC.



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# MEMBER connections

#### Raute Appoints Järvinen as New CFO

Raute recently announced that it has appointed Tarja Järvinen as group vice president, CFO of Raute Group. She will also be member of Raute Group's executive board, reporting to president and CEO Tapani Kiiski. Järvinen assumed the position on February 1.

#### Willamette Valley Co. Names New Business Manager

Robert Pitts has been named the business manager for Willamette Valley Co.'s North American Wood Products business. According to a press release from the company, Pitts has been instrumental in guiding Willamette Valley Co.'s North

American sales efforts in sealers and primers for engineered wood for nearly 20 years.

Pitts will focus his efforts on the company's plywood business and the growth of its specialty wax business, as well as paint and coating products. Pitts started his new position January 1.





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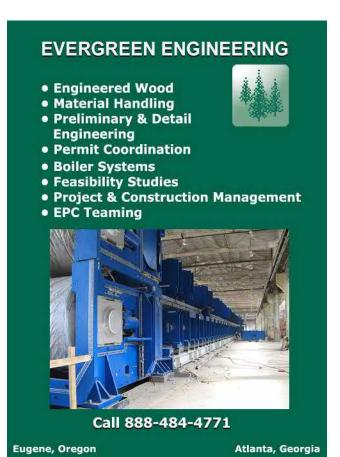
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# **UPCOMING** connections

#### 2019

#### APRIL

- 3-5 IWPA 63rd World of Wood Annual Convention, Tucson, Ariz., www.iwpawood.org
- **23-25** American Forest Resource Council annual meeting, Stevenson, Wash., amforest.org

#### MAY

- **5-7** American Wood Protection Association annual meeting, Orlando, Fla., www.awpa.com
- 5-7 Composite Panel Association Spring Meeting, Naples, Fla., www.compositepanel.org
- **8-9** Global Softwood Log and Lumber Conference, Vancouver, B.C., www.woodmarkets.com
- **12-14** Decorative Hardwoods Association spring conference, Santa Rosa, Calif., www.decorativehardwoods.org
- **20-21** Bio Fiber Polymer Composites Symposium, Madison, Wis., forestprod.org/woodcomposites
- **27-31** LIGNA: World Fair for the Forestry and Wood Industries, Hannover, Germany, www.ligna.de

#### **JUNE**

- 6-8 American Institute of Architects Conference on Architecture 2019, Las Vegas, Nev., conferenceonarchitecture.com
- **25-28** Forest Products Society 73rd International Convention, Atlanta, Ga., www.forestprod.org
- **26-28** Southern Forest Products Association's 2019 Forest Products Machinery and Equipment Expo, Atlanta, Ga., sfpaexpo.com

#### **JULY**

**17-20** Association of Woodworking and Furnishings Suppliers Fair, Las Vegas, Nev., awfsfair.org

#### SEPTEMBER

- 4-6 Bioenergy 2019, Jyväskylä, Finland, www.bioenergiamessut.fi
- 9-12 Furniture China 2019, Shanghai, China, www.furniture-china.cn
- **17-19** World Forestry Center's "Who Will Own the Forest?" conference, Portland, Ore., www.wwotf.org
- **24-27** Nondestructive Testing and Evaluation of Wood Symposium, Freiburg, Baden-Württemberg, Germany, ndtesymposium.org

#### **OCTOBER**

**6-8** Composite Panel Association Fall Meeting, Denver, Colo., www.compositepanel.org

#### **NOVEMBER**

**2-5** APA Annual Meeting and EWTA Info Fair, Tucson, Ariz., www.apawood.org, www.engineeredwood.org

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