

ENGINEEREDWOOD

SPRING 2022

Journal

PORTLAND GETS BACK TO ITS ROOTS

Main terminal
redevelopment features
mass timber roof

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Multiple factors
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Annual survey suggests
improved business
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EWTA

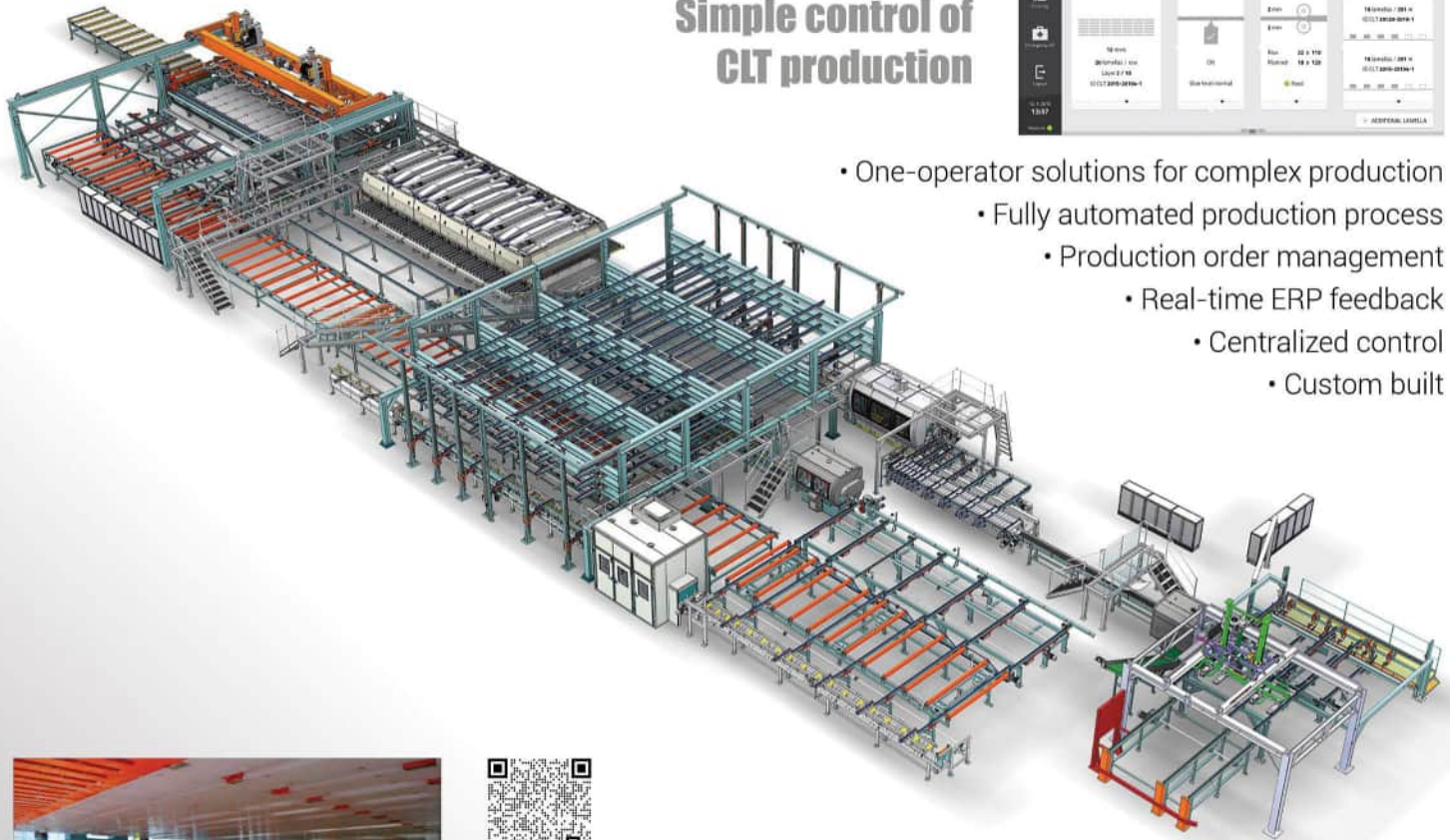
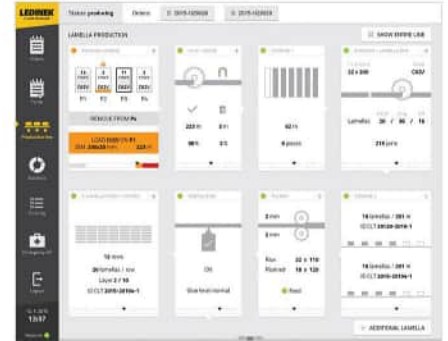
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ENGINEERED WOOD JOURNAL

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About the cover photo:

The terminal's creative design brings the beauty of the Pacific Northwest to the gateway to Oregon.

Renderings courtesy Port of Portland/
ZGF Architects



**STRENGTH THROUGH
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IN THIS ISSUE...

It appears that the pandemic we have been living through the past two years has taken a pause. No one knows when or if another variant might put restrictions back in place, but for now, mask requirements are relaxed or have been removed, and people are traveling and meeting in person. Conventions and events are happening!

At the 2022 International Mass Timber Conference held recently in Portland, Oregon, the design, engineering and construction of mass timber projects was shared, and examples of its beauty displayed. In this issue, we feature how mass timber is used in the redevelopment of the Portland International Airport's main terminal. Turn to page 9 to read how two Pacific Northwest companies worked together to create a brand new, stunning mass timber roof.

Looking ahead, APA Market Research Director Joe Elling provides an outlook on how recent steps put in place by the Federal Reserve may impact the housing industry. What lies ahead for our industry? Flip to page 15 for complete details.

Check out the Supplier of the Year Award winners! The 2021 winners were once again chosen through online balloting by APA member representatives. Turn to page 27 to read about the four award recipients.

Earlier this year I attended PELICE (Panel & Engineered Lumber International Conference & Expo), in Atlanta, Georgia, and the International Mass Timber Conference in Portland. The energy at both events was filled with positive outlooks, piqued interest in new products and services, and a sense of celebration as in-person connections were re-established with industry friends and colleagues.

Speaking of reconnecting, we are excited to announce that the 2022 APA Annual Meeting and EWTA Info Fair is scheduled for Oct. 15 – 18, 2022, at the JW Marriott Miami Turnberry Resort & Spa in Aventura, Florida. The online registration sites are currently under development, with the exhibitor site available late May and the Annual Meeting registration site available in August. Complete details will be sent to all members.

It has been fun to meet members and industry colleagues at this year's events and gatherings and I look forward to meeting others this October in Miami. Until then, let's connect via email, phone, virtual meeting or social media.

Stay safe and healthy and keep those connections strong.



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U.S. HOUSING STARTS AVERAGE 1.75 MILLION ANNUAL RATE IN FIRST QUARTER

Housing starts in the U.S. ran at a seasonally adjusted annual rate of 1.79 million units in March. For the quarter, U.S. housing starts averaged a seasonally adjusted annual rate of 1.75 million units, the best quarter in 16 years. Multifamily construction is especially strong, as the rental market is historically tight. This is reflected in the Zillow rent index, which was up almost 17% from March 2021. Builder sentiment edged lower, as builders saw less traffic compared to March. The rate on a 30-year fixed-rate mortgage returned to the 5% threshold in mid-April. This increase has lifted the mortgage payment on median-priced existing homes sold in the U.S. by roughly 38% relative to when the mortgage rate was 3%. Based on the CPI, inflation on a year-ago month basis in the U.S. hit 8.6% in March, the highest rate in 41 years. This points to further tightening of monetary policy in the U.S., and we should not be surprised to see the rate on a 30-year fixed-rate mortgage in the 5.5% to 6% range in the second half of 2022.

APA product recognition makes important strides in Taiwan

APA member products have gained market access and acceptance in Taiwan with strong support from the U.S.D.A. Foreign Agricultural Service (FAS) and APA's Technical Services Division.

Major building code changes implemented in January 2021 now recognize fire-rated roof and floor assemblies using PS 2-rated sheathing for wood frame construction without requiring fire tests. This recognition, which opens a new category of buildings and new markets for structural panels, is an outgrowth of an APA-FAS technical mission of Taiwanese government officials and researchers to the U.S. and continued technical exchanges with APA to address fire safety concerns.

Taiwanese companies have specified and are using APA member Douglas-fir glulam in two

Continued on next page



Lunping Cultural Landscape Park Pavilion, Taoyuan City, Taiwan
 Photo from Jim Walsh of Walsh Industries

large landmark projects that demonstrate market acceptance for APA member products in heavy timber and hybrid construction applications. The first is a Taoyuan City government project, the eye-catching Lunping Cultural Landscape Park Pavilion. The second is the Taichung Airport Terminal Expansion Project, which will enable the facility to handle 3.7 million passengers per year. Both projects were supplied by a U.S. glulam exporter working with APA members mills and a fabricator in Oregon. The projects, their use of APA member products and the building code changes was highlighted at an APA exhibit in late April at Taiwan's largest architect show in Taipei. APA in-person marketing and promotion will continue at the Timberize Taiwan Exhibition from March through May in Kaohsiung, Taiwan's second-largest city.

**DATE SET FOR
 2022 APA ANNUAL
 MEETING AND
 EWTA INFO FAIR**



The 2022 APA Annual Meeting and EWTA Info Fair is scheduled to be held Oct. 15-18 at the JW Marriott Miami Turnberry Resort & Spa in Aventura, Florida. We look forward to meeting in person once again!

Exhibitor registration and sponsorship opportunities will be sent to EWTA members in May, with annual meeting registration details available in August.

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In Memoriam

Roger Roatch

Roger Roatch, former APA – The Engineered Wood Association Field Services Region Manager, died Dec. 21, 2021, at the age of 59. He spent much of his 30-plus-year career in wood products with APA, where he covered field territories in California and the Pacific Northwest and managed the association’s western region field staff team. Roatch is survived by his wife, Jeanette, sons Bryce, Brandyn, Blayne and Jarod and their families, and many other family and friends.



Roger Roatch

Tor Gustavsen

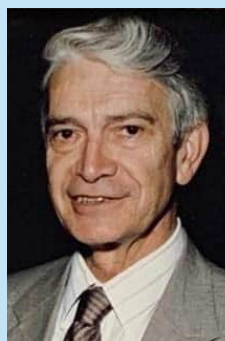
Tor Gustavsen, former Managing Director of Argos Solutions, died Feb. 5 at the age of 60. Gustavsen was a dedicated and passionate leader for Argos Solutions. His colleagues, partners and customers knew him as a man who genuinely cared for those around him and is missed by all. He is survived by his wife and children and a large group of extended family and friends.



Tor Gustavsen

Richard “Dick” Caletti

Richard “Dick” Caletti, former Standard Structures president, died Feb. 26 at the age of 93. Standard Structures, founded in 1947 by Caletti’s father, pioneered the glulam beam industry and later expanded its products to include I-joists and open-web trusses for commercial and multifamily roof and floor systems. Caletti served on the APA I-joist/ SCL Management Committee for many years before his retirement. Before joining the industry, Caletti studied civil engineering at Santa Clara University and served in the U.S. Army during the Korean War. He is survived by his three children and four grandchildren. He was preceded in death by his wife, Floramay.



Richard “Dick” Caletti

EWP production up in first quarter of 2022

Supported by an increase in housing starts, structural panel and engineered wood products production was up in the first quarter of 2022 compared to the fourth quarter of 2021. Glulam led the way with production up 4.3% for the quarter, followed by a 3.8% increase in OSB output. More modest increases were registered by LVL and plywood, up 2.1% and 1.2%, respectively. The level of I-joist production was unchanged from the fourth quarter of 2021. U.S. imports of softwood plywood from sources other than Canada are estimated to have fallen from 438 million square feet in the fourth quarter to 418 million square feet in the first quarter of 2022. U.S. imports from non-Canadian OSB producers are estimated to have totaled 52 million square feet in the first quarter of 2022, down from 193 million square feet in the fourth quarter of 2021.

For additional information, turn to page 15 for a 2022 Market Outlook by Joe K. Elling, Director of Market Research for APA – The Engineered Wood Association.

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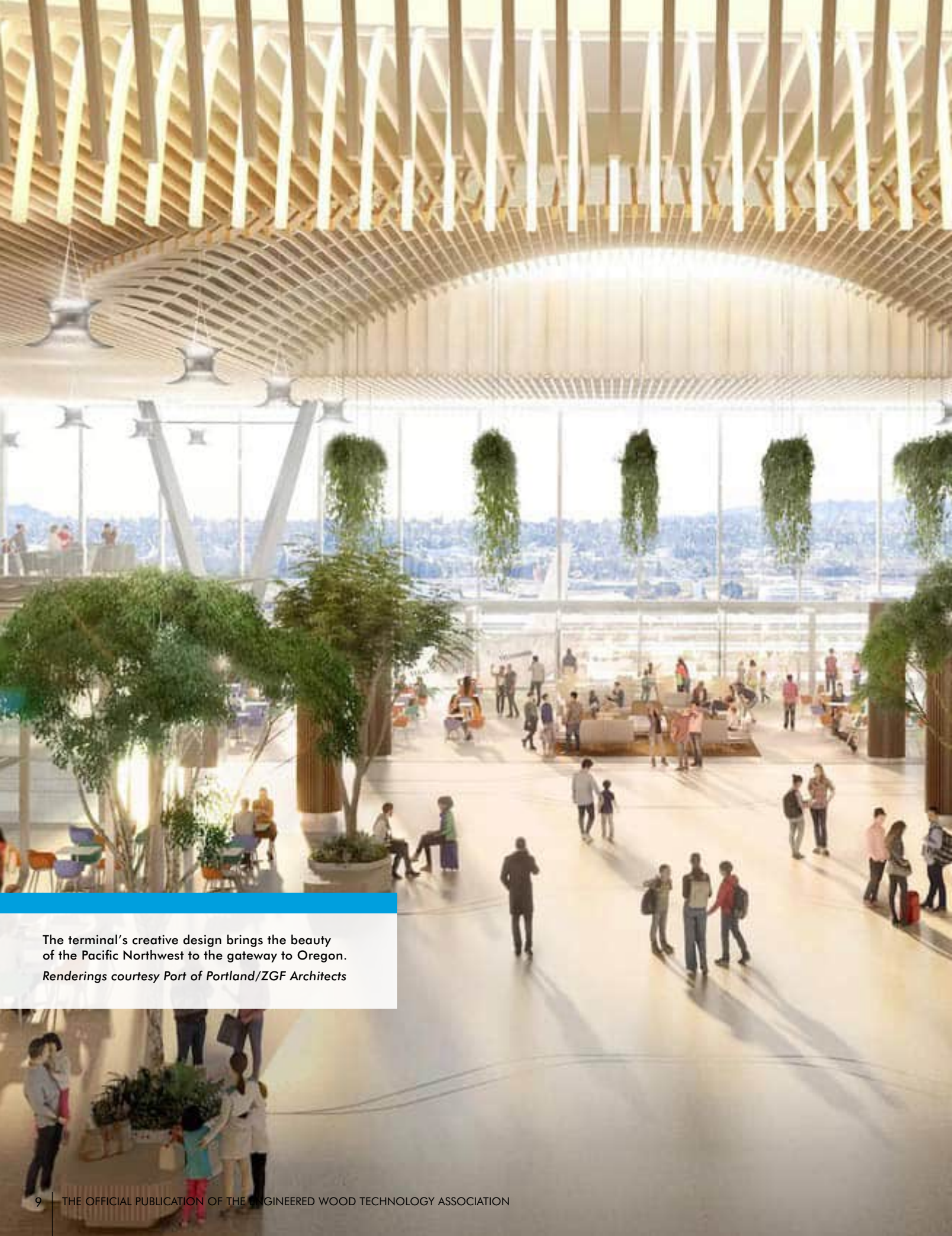
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The terminal's creative design brings the beauty of the Pacific Northwest to the gateway to Oregon.
Renderings courtesy Port of Portland/ZGF Architects



PORTLAND GETS BACK TO ITS ROOTS

Main terminal redevelopment features mass timber roof

By Larry Oenning, P.E.

Passengers traveling through the Portland International Airport (PDX) are in for a stunning surprise. The 81-year-old airport is undergoing a major transformation as part of the \$2 billion PDX Next overhaul project. For the pièce de résistance, the main terminal building is getting equipped with a brand new, stunning mass timber roof.

The \$1.2 billion main terminal redevelopment has been in the works for the last four years, as the Port of Portland has worked closely with local design firm ZGF Architects and KPFF Consulting Engineers to develop and perfect their vision.

Aiming to incorporate more Pacific Northwest-inspired architecture that is both sustainable and earthquake resilient, designers looked to mass timber.

The extensive 300,000-square-foot roof renovation features approximately 2.5 million board feet of timber. But the real star of the show is the nearly 300 magnificent 80-foot arched glulam beams from APA member Zip-O-Laminators.

The custom glulam beams feature various sized arches that will be intentionally placed to create a domed or vaulted effect in the ceiling. The diaphragm is constructed from 2-inch mass plywood panels (MPP) from APA member Freres Lumber Co., which will be molded into place over the arched glulam. MPP is a large-scale, laminated-veneer-lumber-based engineered wood panel that can be used as an alternative to cross-laminated timber (CLT).



Inspired by a walk through a calming Pacific Northwest forest, the design team hopes to create a relaxing atmosphere for travelers. Renderings courtesy Port of Portland/ZGF Architects

Two local companies specializing in mass timber joined production to help bring the Port's vision to life. "We've met every week for the last two-and-a-half years just going through the design and figuring out all details," said Jared Revay, mass timber project manager at Swinerton Builders.

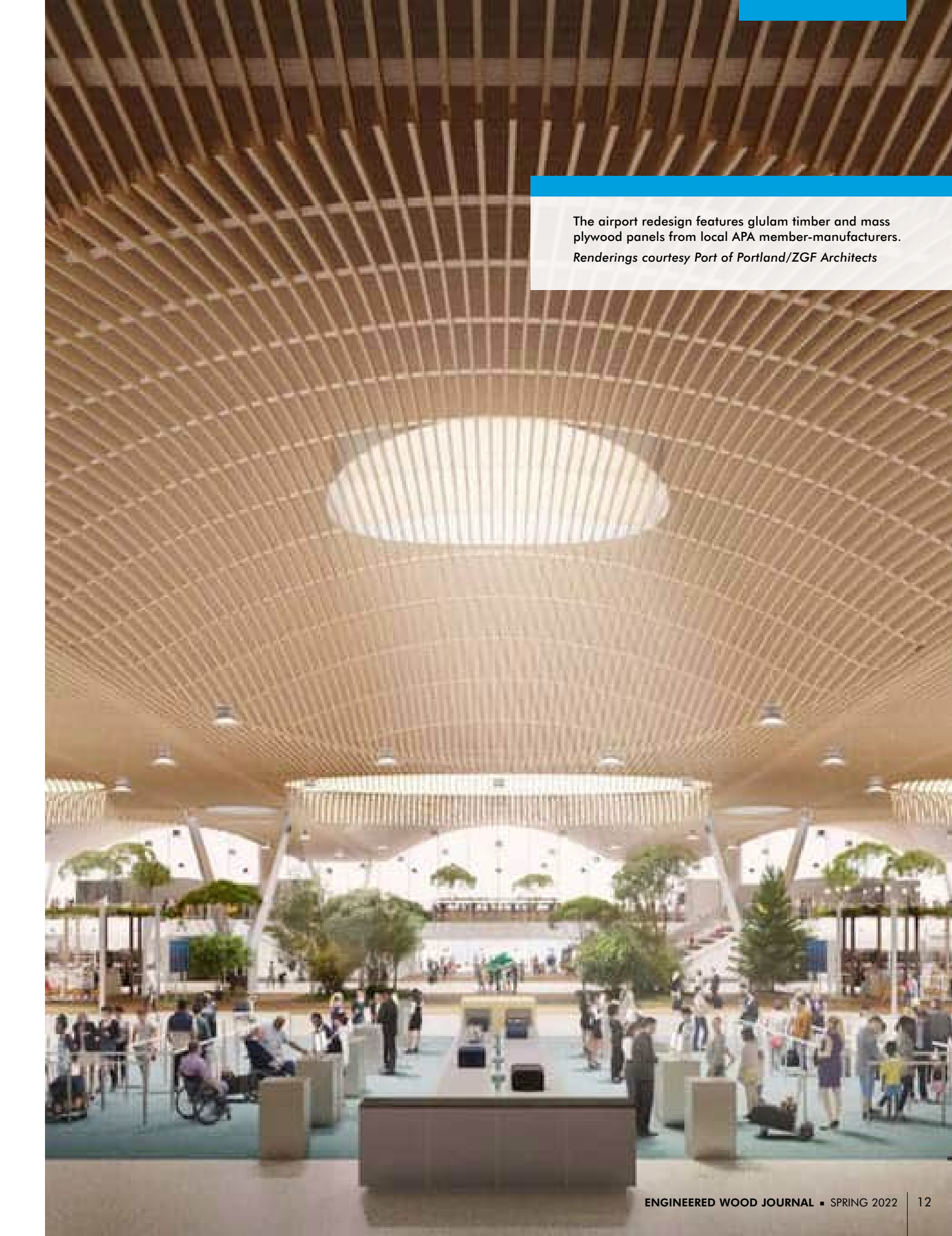
"The biggest challenge we've faced so far was with the design and fabrication and figuring out what the 2D shape of the MPP needed to be so that when you bend it, it fits precisely within the other pieces on the roof," said Revay. "Every single piece on the roof is unique, with a unique number, that fits precisely within the contorting and bending of the roof. It's critical all the joints align perfectly and that the panels are installed with great precision."

The 2-inch-thick MPP is being molded into shape over the arched glulams manually, with exact fastening.

Timberlab, Swinerton Builders' mass timber company, is serving as the fabrication partner on the project. "There are a number of MPP fabrications that are smaller, more unique and quite complex, and Timberlab is the only facility in the region that has the five-access fabrication capabilities that can handle this volume," said Revay.

The roof is being preassembled on-site in 18 massive cassettes that will be slid into place over the existing roof in a specific sequence. Revay expects each cassette sequence will take about one month for installation.

Continued on page 13



The airport redesign features glulam timber and mass plywood panels from local APA member-manufacturers.
Renderings courtesy Port of Portland/ZGF Architects

Construction on the main terminal roof is expected to finish fall of 2022, with the rest of the interior construction continuing through 2023. The final pieces of the PDX Next project are scheduled for completion in 2025.

Wanting to honor and celebrate the local area, the Port prioritized sustainably and locally sourced timber for the project.

“We really wanted to support the local economy,” said Revay, explaining that all the timber used was sourced from within a 600-mile radius.

Oregon, the top producer of softwood lumber in the United States, has deep roots within the mass timber industry.

“MPP technology is relatively new and was developed by the Freres family who has been based in Oregon for nearly 100 years,” said Sam Dicke, business development representative with Timberlab. “Being able to use their product and support a great family-owned company is a really cool way to showcase that Oregon history.”

The complex and unique design proved to be challenging, but the team persisted, fueled by a passion to create a beautiful, sustainable space that pays homage to the area’s rich history and creates a space to be enjoyed by travelers from around the world for years to come.

“Nearly 20 million people go through this airport a year. That’s about 50,000 people a day that will be seeing what’s possible with mass timber,” said Dicke. “That is the coolest thing in the world.”

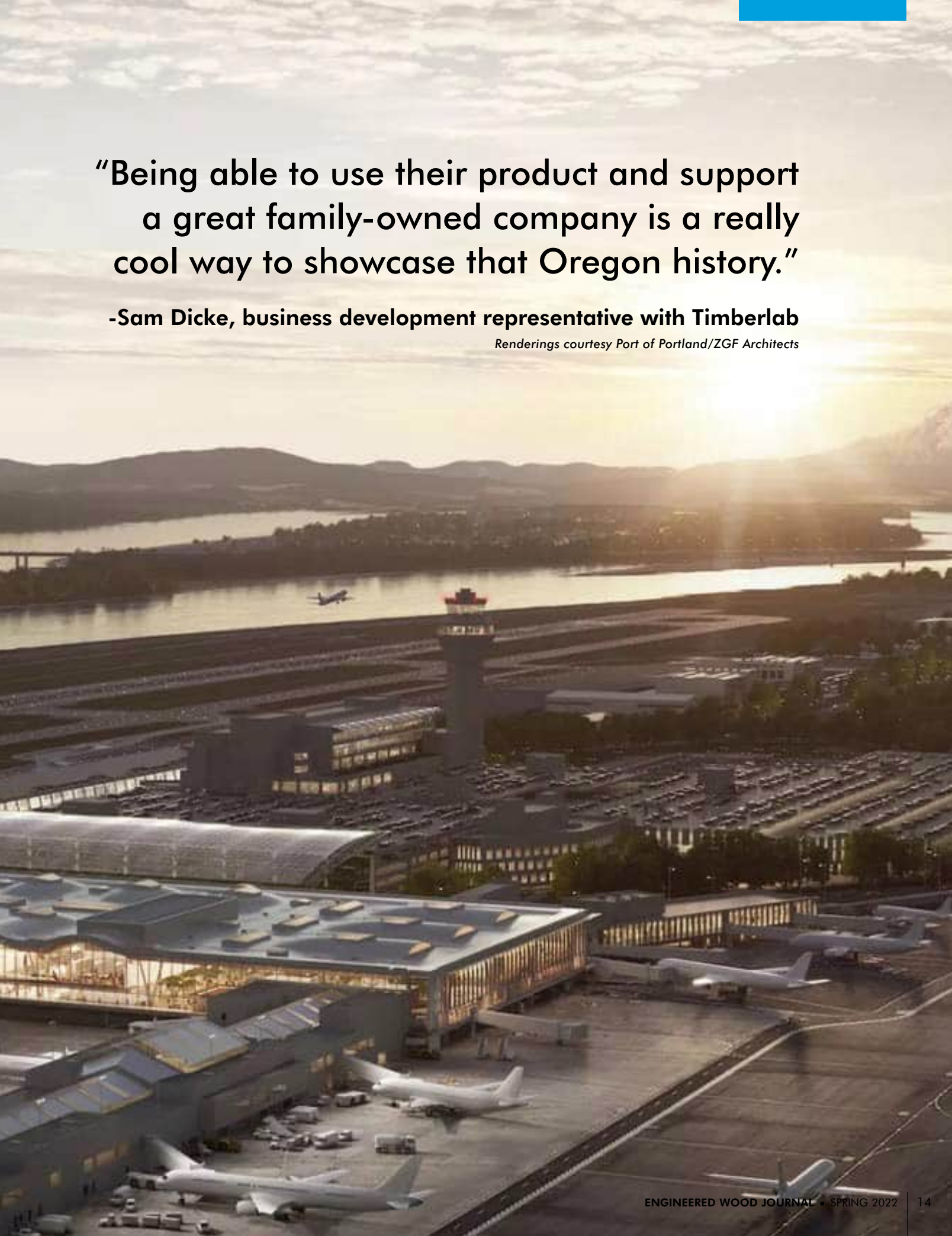
Larry Oenning (larry.oenning@apawood.org) is an Engineered Wood Specialist for APA – The Engineered Wood Association



“Being able to use their product and support a great family-owned company is a really cool way to showcase that Oregon history.”

-Sam Dicke, business development representative with Timberlab

Renderings courtesy Port of Portland/ZGF Architects





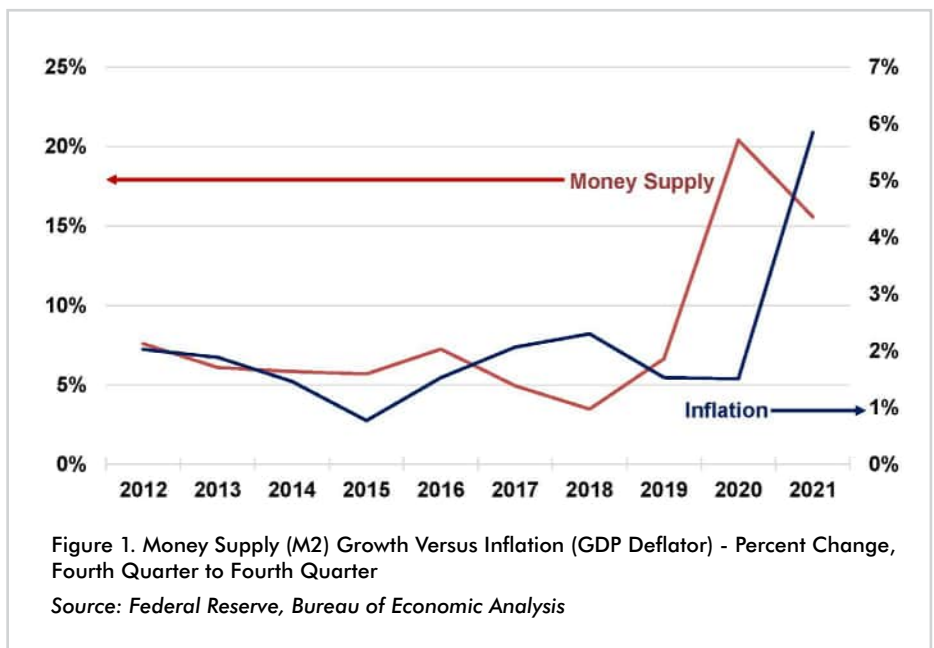


FEDERAL RESERVE'S INFLATION FIGHT POSES CONCERN

Multiple factors contribute to recent housing industry outlook

by Joe K. Elling

Russia's invasion of Ukraine has increased concerns regarding the inflation outlook and the steps Federal Reserve policymakers plan to take to put the inflation genie back in the bottle for the next two years. The Federal Reserve appropriately loosened credit conditions to support the global economy when COVID-19 forced the temporary closures of businesses. There was also merit to the argument that disruptions to the global supply chain raised production and distribution costs, which contributed to higher goods prices. However, belief that the inflation increase was "transitory" and price increases would slow in the second half of 2021 appears to have been misplaced. As a result of the Federal Reserve's effort to monetize the \$3 trillion budget deficits run by the federal government in fiscal years 2020 and 2021 to also support the economy, the nation's money supply increased by 36%

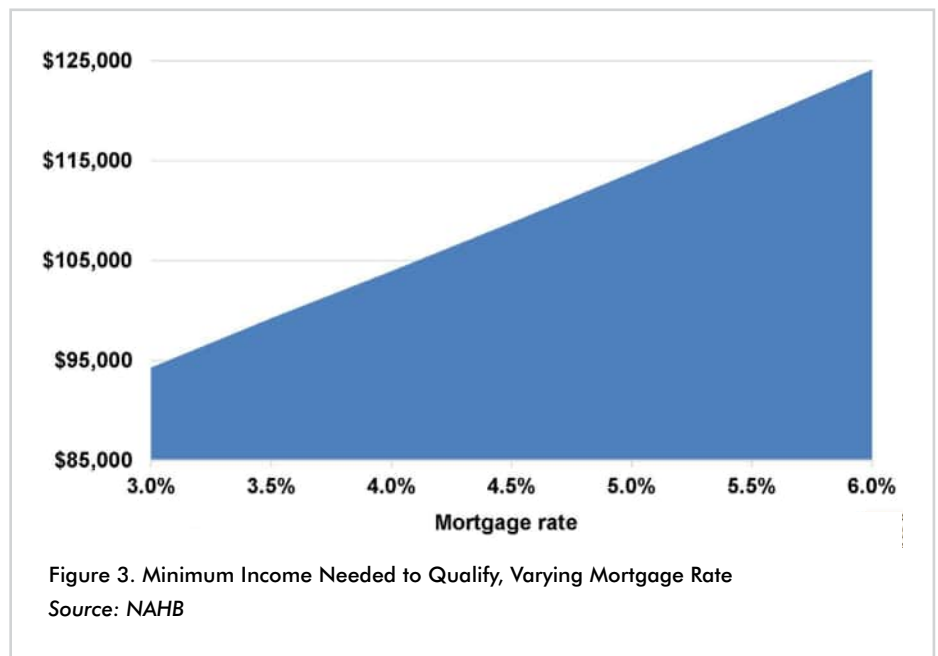
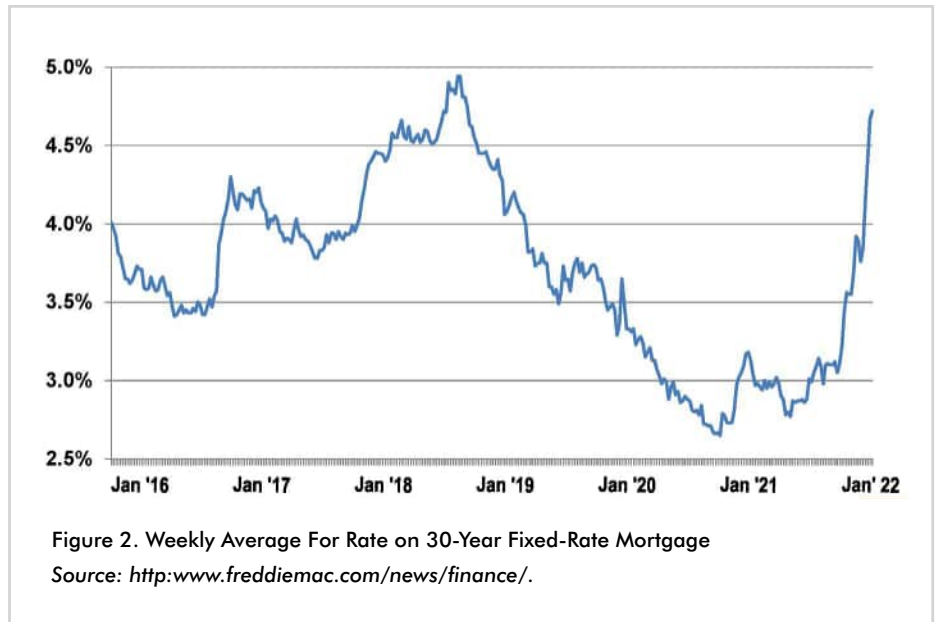


from the fourth quarter of 2019 to the fourth quarter of 2021. As shown in Figure 1, inflation has not slowed, as the inflation rate in the U.S. is running in the 6% to 8% range, depending on the measure used.

Federal reserve to tighten policy

Following the March 16 Federal Open Market Committee meeting, Federal Reserve Chair Jerome Powell said the Federal Reserve would be raising the target range for the federal funds rate 25 basis points, and that six more 25 basis point increases are to follow through the rest of 2022. Powell also said the Federal Reserve would start to reduce the size of its balance sheet in May. More recent statements made by Federal Reserve policymakers suggest that they may be more aggressive in tightening credit conditions than Jerome Powell's March 16 statement.

Prior to March 16, the rate on a 30-year fixed-rate mortgage had risen to 3.85% after starting the year at 3.2%. Since March 16, the rate on a 30-year fixed-rate mortgage has risen by almost 90 basis points to 4.72%. (See Figure 2.) The prospects for further tightening by the Federal Reserve suggest the rate on a 30-year fixed-rate mortgage will quickly hit the 5% mark and we should not be surprised to see a 5.5% rate at year-end 2022.



Rising mortgage rate impact on affordability

The housing markets in the United States, for homeownership or rental, are tight. Vacancy rates in both markets are at record lows. The increase in home prices has been well documented in the business media. Based on the Case-Shiller Home Price Index, the average price of an existing

home has appreciated 30% from December 2019 to December 2021. The increase has greatly exceeded the growth in household incomes.

In order to illustrate the impact of the increase in the mortgage rate on affordability, we will call on a recent analysis done by the research staff at the National Association of Home Builders (NAHB). The parameters for the analysis include the following:

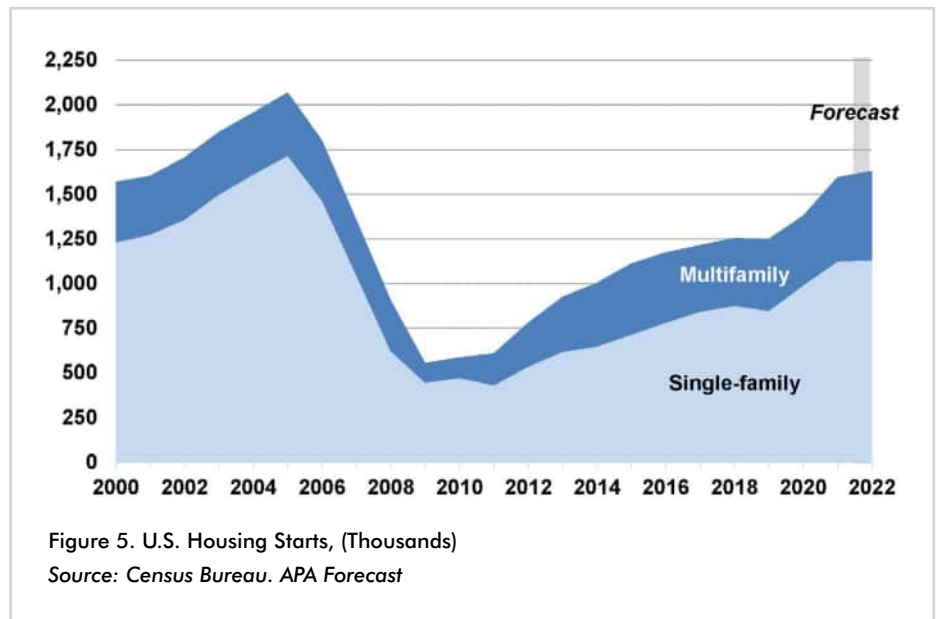
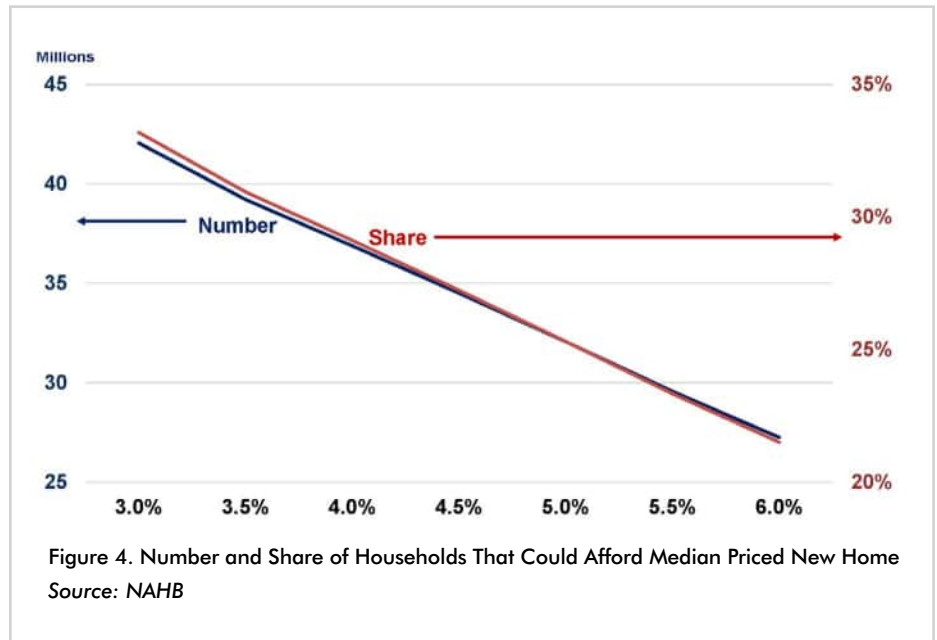
- The median price of a new home sold in 2022 is \$412,500
- The amount of household income that can be devoted to the mortgage payment, property taxes and insurance equals 28%
- 20% down payment
- Range of interest rates on a 30-year fixed-rate mortgage is 3% to 6%.

Shown in Figure 3 is the income needed to qualify for the mortgage where the interest rate runs from 3% to 6%. At 3%, the qualifying income is near \$95,000, and at 6%, near \$125,000, an increase of 31.5%.

Using the NAHB estimated distribution of household income for 2022, the number and share of households that can qualify for the mortgage to buy a home with the mortgage rate ranging from 3% to 6% is shown in Figure 4. At a 3% mortgage rate, the number of qualifying households is 42 million, and the share of qualifying is roughly

32.5%. At a 6% mortgage rate, the number and share of qualifying households falls to 27.5 million and 22.5%, respectively.

The sense of urgency to buy a home, given the prospects of mortgage rates moving higher, and still attractive margins being realized by homebuilders point to single-family starts running at 1.10 million or more in 2022. Rent



COMPONENT OF U.S. POPULATION CHANGE AVERAGE ANNUAL CHANGE, 1,000s

	2000–05	2005–10	2005–15	2005–19	2005–20	2005–21
Births	4,278	4,192	3,961	3,846	3,614	3,582
Death	2,431	2,445	2,599	2,814	3,359	3,434
Natural Increase	1,847	1,747	1,362	1,032	255	148
Net Immigration	992	870	882	819	490	245
TOTAL	2,839	2,617	2,244	1,851	745	393

increases averaging 17% across the U.S. based on the Zillow Observed Rent Index are sending the signal to apartment developers to build more rental housing. Multifamily starts totaled 474,000 units in 2021, and the forecast calls for multifamily starts to be near 500,000 units in 2022. (See Figure 5)

Considerations beyond 2022

Some housing industry analysts suggest the U.S. housing stock is underbuilt by 3 million to 5 million units. If so, this means the prospects for housing starts to average 1.6 million units or more annually through the rest of the decade are positive. However, there is still great uncertainty regarding the underlying trend in new housing demand driven by household

formations. As shown in Table 1, population growth has slowed dramatically in the last two years. The increase in the number of people passing away was a function of the coronavirus. Assuming the worst of the pandemic is behind us, the number of deaths should decline. It is unclear, though, where immigration will head after 2022 because there does not seem to be agreement regarding immigration policy in the U.S. Not only does the level of immigration have an implication for prospective household growth, but low immigration points to minimal growth in the labor force and, in turn, potential growth in the U.S. economy.

Joe K. Elling is Director of Market Research for APA – The Engineered Wood Association.



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BUSINESS OUTLOOK OPTIMISM CONTINUES

Annual survey suggests improved business projections for 2022

By LaDauna Wilson

Year two of a global pandemic is behind us, and with strong housing starts and engineered wood production, Engineered Wood Technology Association (EWTA) members surveyed earlier this year reveal continued optimism for the industry. Reflecting on the events of 2021, respondents indicate that despite operating under pandemic restrictions, they see continued strong demand for their services and products. The trend is expected to continue, as 72% of the respondents look for improved business projections in 2022.

The Engineered Wood Technology Association Business Outlook survey, sent each January

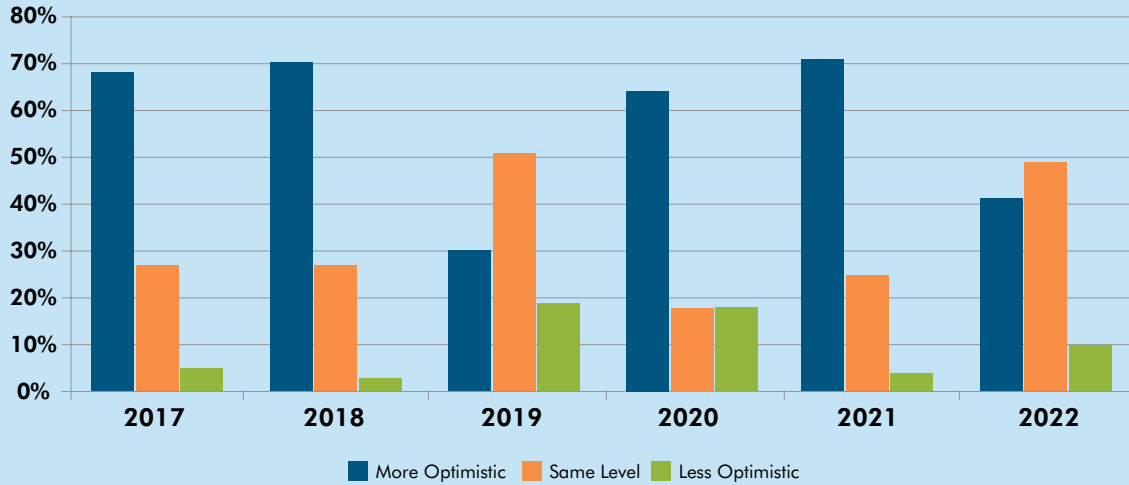
to members, is a web-based survey that presents five questions designed to capture members' perceptions of their company growth, employment levels and other business-related issues. Current and past responses are reflected in the following charts, providing a five-year snapshot of the trends.

Optimism remains strong

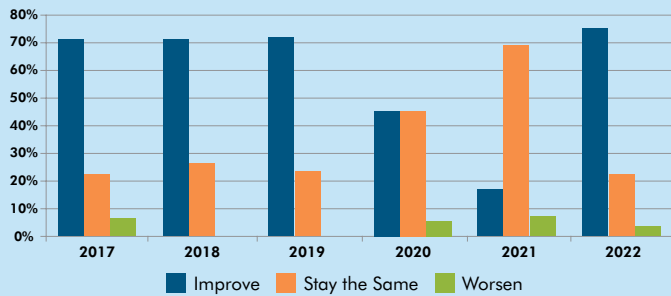
One of the questions in the survey asks, "How optimistic are you about your wood-related business this year compared to last?" In 2021, respondents were asked these questions while facing mandatory lockdowns and restrictions. As a result, survey responses show that 71% of the companies were more optimistic, 25% remained the same and 4% were less optimistic. This year, 41% of the survey respondents claim to be more optimistic when looking toward 2022, and 49%

BUSINESS PERFORMANCE CHARTS

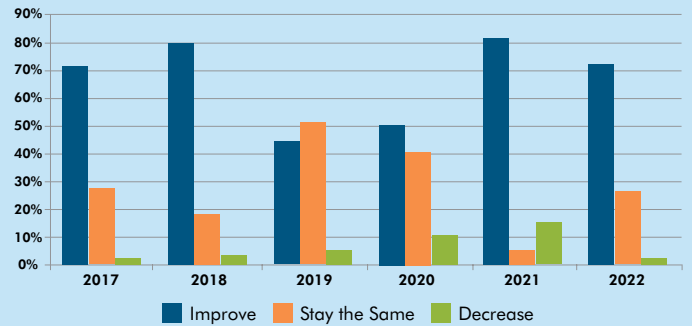
HOW OPTIMISTIC ARE YOU ABOUT YOUR WOOD-RELATED BUSINESS THIS YEAR COMPARED TO LAST?



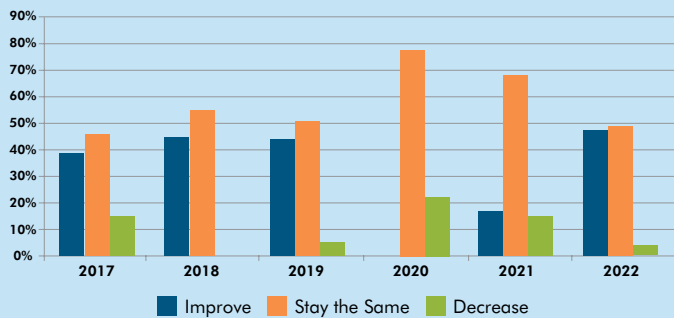
DID BUSINESS IMPROVE, STAY THE SAME OR WORSEN THIS PAST YEAR?



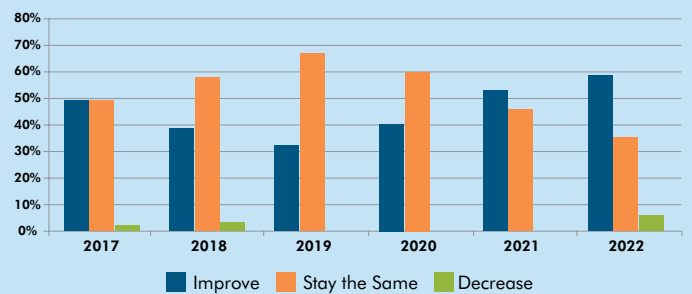
WHAT IS YOUR BUSINESS PROJECTION FOR 2022?



DID YOUR EMPLOYMENT LEVELS CHANGE LAST YEAR?



WHAT IS YOUR EMPLOYMENT FOR 2022?



state they will remain at the same level. Only 10% view 2022 with less optimism than 2021.

Improved business operations

Seventy-five percent of respondents saw their company’s wood-related business improve in 2021 as businesses reopened and the demand for building products increased. Business operations stayed the same for 22% and was worse for 4%. This is a contrast from the prior year’s responses in which 17% of businesses reported an improvement in business, 69% stayed the same and 15% reported a decline.

When asked “What is your business projection for 2022?”, 72% of the respondents felt business would improve, down from the projections of 81% in the prior year. Twenty-six percent believe business will stay the same (compared to 4% in 2021), and 2% think there will be a decrease in business (compared to 15% in 2021).

According to survey respondents, employment levels for EWTA members saw improvements in 2021, and companies anticipate that will continue

into the new year. When asked if staffing changed during the year, 47% of the respondents reported an increase in the number of employees (up from 17% in 2020), 49% maintained the same employment levels (compared to 69% in 2020), and 4% decreased staff (down from 15%). Fifty-nine percent expect an increase in employment projection for 2022, with 35% maintaining the same level and 6% predicting a decline.

Important recovery factors shift slightly for 2022

When asked to rate the relative importance of factors in relationship to the stability and/or expansion of their business, the top concern of EWTA members for 2022 is the availability, price and supply of raw material. The state of the U.S. housing market and the cost of transportation follow as the second and third items labeled as “very important.” This shows a slight shift from the 2021 responses in which the state of the housing market was number one and raw material supply was number three.

2021 – HOW IMPORTANT ARE THE FOLLOWING FOR RECOVERY?

	Very Important	Important	Unimportant
Raw material prices or supply	67%	29%	4%
State of the U.S. housing market	66%	34%	0%
Transportation costs	64%	28%	8%
Labor issues	56%	36%	8%
Economic uncertainty	55%	43%	2%
Government regulation	41%	43%	16%
Government economic/tax policy	41%	43%	16%
International exchange rates/trade policies	38%	38%	24%
Marketplace competition	31%	51%	18%

Transportation was ranked as 5 out of 9 in the range of importance. Once again, the state of the U.S. housing market is the only category with no “unimportant” level selected.

Adjusting to meet challenges

When asked how businesses were adapting to the current economic conditions, companies report that they have implemented a variety of strategies to continue providing products and services to the engineered wood industry. The strong housing market and panel prices have created a demand for new machinery and services as wood manufacturers are looking for ways to meet demand. However, there are also concerns related to lack of labor, trucking/transportation and raw materials, as voiced by multiple respondents. One member stated that they expanded the practice of second-sourcing raw materials to reduce risk of shortages while another is now sourcing raw materials globally due to shortages domestically.

For many companies, 2021 involved less travel and in-person appointments, which were offset with virtual meetings and optimizing practices to meet the needs of current customers. As COVID restrictions are lifted and travel and trade shows return, people and their companies unanimously reported that they are looking forward to reconnecting with customers and associates in person.

LaDauna Wilson is the Engineered Wood Technology Association Program Manager and editor of the Engineered Wood Journal.

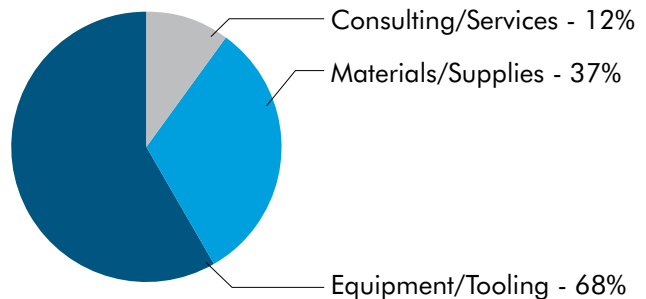
Mereen-Johnson's Panel Rip Saw

The Model 435 Panel Rip Saw
Custom configurations available

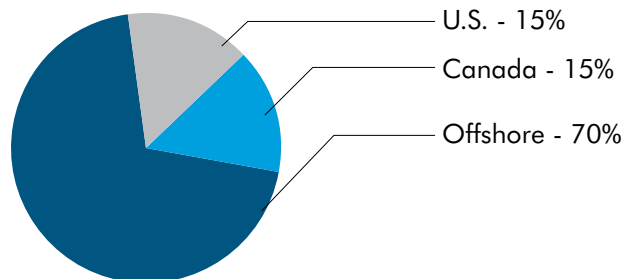
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ABOUT THE BUSINESS OUTLOOK SURVEY

EWTA MEMBERSHIP CATEGORY



HEADQUARTERS LOCATION





2021 ANNUAL SUPPLIER AWARD PROGRAM WINNERS ANNOUNCED

Four EWTA companies have been selected by APA members to receive the 2021 Supplier of the Year and Innovation of the Year Awards. The EWTA Supplier Awards Program is designed to recognize EWTA member companies that excel in serving their APA member manufacturer customers and companies which develop innovative solutions to processing problems and challenges. All EWTA member companies in good standing are eligible to participate in the program and win awards. Congratulations to all the winners!

Supplier of the Year Award Winners

The Supplier of the Year Awards are based on the quality, service and delivery of EWTA member products and services to APA member companies. Awards are presented for each of EWTA's membership categories: Equipment and Tooling, Materials and Supplies, and Consulting and Services. Following are the 2021 winners for each of the categories.

Continued on page 27

AWARD WINNERS TO BE HONORED AT 2022 APA ANNUAL MEETING

The winners for 2020, 2021 and 2022 will be acknowledged during during the Chairman's Dinner at the APA Annual Meeting scheduled for October 17, 2022, in Aventura, Florida.

[VIEW WINNERS ►](#)

EQUIPMENT AND TOOLING CATEGORY



Con-Vey

Con-Vey is a leading manufacturer of material handling equipment and a proven, high-quality supplier offering innovative solutions to customers in nearly 20 countries. Con-Vey designs and manufactures complete systems for automated material handling, wood panel processing, packaging, and laminating, including feeders, stackers, and conveyors. Con-Vey also specializes in beam presses, robotics, and PLC control systems.



MATERIALS AND 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, 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.



CONSULTING AND SERVICES CATEGORY



CMA engineering Inc.

For more than 35 years, CMA engineering Inc. has completed a number of projects in the manufacturing end of the forest products industry. This includes 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.



Innovation of the Year Award Winner

The Innovation of the Year Award recognizes a company with a new, original and unique product or service that is used in the field and producing positive results. The award is given for 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. Following is the 2021 Innovation of the Year award winner.

INNOVATION OF THE YEAR



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.

HP600+ Resin System

Date of First Use: January 2021

Benefit 1: Reduces hot press cycle times by 5% to 15% on average, increasing mill throughput and reducing unit production costs on press-bound constructions.

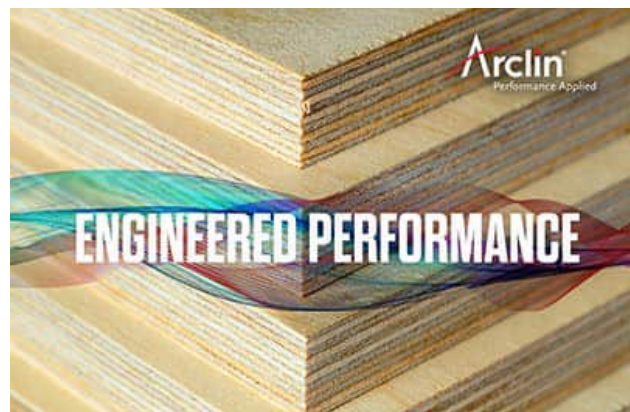
Benefit 2: Reduces adhesive spread rates by 8% to 15% on average, reducing applied adhesive costs and incrementally improving tolerance to elevated veneer moisture content.

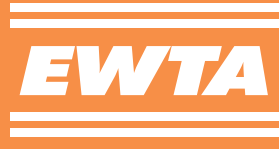
Results: Several mills have converted to the Arclin HP600+ technology so far in 2021.

Those mills, including business captured from competitors, on average have recognized a panel throughput improvement of 9.8% with a glue spread rate reduction of 8.0%, all while sustaining or improving on-grade.

Description:

The HP600+ technology combines our Fast Cure Resin System and Low Spread Technologies to produce a “super resin” that significantly reduces spread rates and hot press cycle times, all without a corresponding reduction in dryout tolerance. The HP600+ technology is the proven plywood and LVL market leader in performance.





Strength Through Connections

The Engineered Wood Technology Association is the leading North American organization of suppliers to the engineered wood products industry.



JOIN

EWTA membership provides vital connections with your customers in the North American engineered wood industry through a variety of networking platforms.



EXHIBIT

EWTA's Info Fair supplier exhibition, held in conjunction with APA – The Engineered Wood Association's annual meeting, provides face-to-face opportunities with key decision-makers.

Looking forward to seeing you Oct. 15-18, 2022 at Aventura, FL



ADVERTISE

EWTA's Engineered Wood Journal provides a highly cost-effective method to deliver your advertising message to a target-rich readership of your customers.

Learn more about the benefits of EWTA membership

WWW.ENGINEEREDWOOD.ORG

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EWTA Members from the 2019 APA Annual Meeting in Tucson, Arizona.

EWTA MEMBERSHIP DIRECTORY

The Engineered Wood Technology Association (EWTA), the related nonprofit supplier organization of APA – The Engineered Wood Association, serves as a networking and information transfer vehicle between North America’s engineered wood product manufacturers and their product, equipment and service providers. This membership directory, updated for 2022, includes company descriptions and contact information for current EWTA members. Visit www.engineeredwood.org/member-directory-contacts for the online directory and additional filter options. It’s just one of many tools designed to help members connect with each other and the industry.

For more information about the benefits of membership or for a membership application, visit www.engineeredwood.org/-about or contact LaDauna Wilson at ladauna.wilson@apawood.org.



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 belting technologies process unique materials for engineered wood products particularly for wood forming in OSB, PB and MDF/HDF manufacturing. Visit us @Albint.com.

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Kaukauna, WI 54130, USA
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A-Lert Construction Services

A-Lert Construction Services was established in 1979 and specializes in design, manufacturing and 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.

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Altec Integrated Solutions Ltd.

Altec works closely with plywood and veneer operations to improve all sections of the green end to increase production, quality, uptime, and recovery. After gaining a thorough understanding of each customer application, an improvement solution, drawn from decades of experience and smart use of technology, is proposed.

Improvement solutions are provided which include items such as heavy-duty precision equipment (including complete lathes, back up rolls, chargers, scanners, diverters, stackers, robotics) and enhanced control systems for all sections.

Services include full CNC machine shop, testing, engineering, and field service.

Locations in Texas and British Columbia allow Altec to supply, service, and support customers across North America and around the world.

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ANDRITZ Inc.

With a comprehensive range of technically advanced products and more than half a century of experience, ANDRITZ Wood Processing Global Product Group can supply a customized system for all the stages of your log handling, debarking and wood and bark processing operations worldwide. ANDRITZ is specialized in supplying complete systems including total project management, all relevant process equipment and control/automation systems. Our range covers all sizes of plants. Our globally organized project group can take responsibility for all stages of your project: Design, Manufacturing, Transportation, Erection, Commissioning, Start-Up, Staff Training. The level of each project service can be structured to match your specific project requirements.

ANDRITZ Inc. continued:

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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.

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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 provides the latest technology of vision-based scanning systems for the plywood, composite and furniture industry. 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.

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Arxada

Arxada is a global leader in the development and supply of innovative technologies to improve the performance of wood products, making them resistant to termites, fungi, fire (flamespread and smoke development), mold and moisture. Lonza Arxada offers formulations specifically designed for the treatment of engineered wood, including Permatak® glueline treatments designed to work in harmony with resins as well as water repellents and mold prevention treatments to keep EWPs bright. Additional Lonza Arxada products include Wolman® residential preservatives, SillBor® borate treatments, Wolmanac® CCA and Chemonite® ACZA industrial preservatives, Dricon® fire retardants, FrameGuard® mold inhibition, and AntiBlu® anti-sapstain line. With global operations and an unparalleled offering of services and expertise, Lonza Arxada is dedicated to the success of its customers.

Arxada continued:

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www.wolmanizedwood.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.

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Fruitvale, BC V0G1L0, Canada
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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:

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1717 English Rd.,
High Point, NC 27104, USA
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BASF - We create chemistry

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

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Bates and Company, Inc

Bates & Co. is an industry leader in providing various support products to the forest product industry. Extenders and fillers comprise the majority of sales, especially those customers extending phenol formaldehyde adhesives for use in plywood, LVL, and hardwood. Bates has also expanded its scope and reach by forming a joint venture, Bates-Willamette, LLC, with a strategic partner in the industry.

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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.

Baumer Inspection GmbH continued:

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BETE Fog Nozzle, Inc.

BETE's FlexFlow® Spray Systems and Electric HydroPulse® Automatic Spray Nozzles provide solution confidence for precise applications of resin, wax, water, and release agents during engineered wood production. Addresses problems involving overspray or under-spray to ensure production efficiency for chips, mats, cauls, or belts.

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BID Group

The privately-owned BID Group has over 35 years of experience in providing industry-leading solutions for its highly valued customers in the wood processing industry. As one of the largest integrated suppliers to the wood processing industry and the North American leader in the field, BID Group is your one-stop source for comprehensive and innovative solutions that exceed our customer expectations. The ability to provide a complete, smart connected, turnkey manufacturing facilities that includes engineering, project management, installation, startup, and after sales service furthers the BID Group companies' strategic value to its customers.

BID Group continued:

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Biele Group

Since 1973 Biele Group is a global manufacturer of customized equipment and turnkey solutions for plywood, particle board, OSB and solid wood applications. The solutions developed by Biele include veneer handling up to the final packaging lines, going through automatic lay-up systems, press lines and finishing processes, including fully automatic solutions for Hardwood Veneer Press lines. Biele's expertise includes advanced data management and complete plant development from concept and design to installation and commissioning. Headquartered in Spain with local sales & technical support facilities in Atlanta, Georgia, USA, Biele provides full service for projects developed in America.

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BMI Contractors, Inc.

BMI Contractors Inc, is a machinery installation contractor specializing in the wood products industry for nearly 40 years. We operate across North America and have installed complete plywood, OSB, LVL and I-Joist facilities. We have replaced, rebuilt or modernized individual machinery lines including over 100 veneer dryers and a significant number of plywood presses, LVL presses and OSB presses. We pride ourselves in innovation and are responsible for completing three veneer dryers that were rolled into place after their construction. Our crews are ready to assist you in achieving your goals for timely, efficient, safe and cost-effective plant improvement projects.

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BOSTIK (formerly Ashland Adhesives)

ISOSET™ adhesives from Bostik 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.

Bostik is a part of the Arkema Group, a Global leader in the chemical industry.

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Brunette Machinery Company Inc.

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.

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CECO Environmental: Adwest Technologies, Fisher-Klosterman, HEE-Duall

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 multi chamber RTOs up to 400,000 SCFM flow rates. Our Fisher-Klosterman, Inc (FKI) division provides ultra-high efficiency cyclones and venturi scrubbers for boiler and wood manufacturing applications, while HEE-Duall provides Bioreaction biofilter and scrubber systems for VOC abatement. We also service, rebuild and relocate RTOs, RCOs, Biofilters and scrubbers for the wood products markets including Smith, Pro-Environmental and all other brands.

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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 throughput, improved output quality and definition, cleaner conditions/environment, greater productivity, less downtime and increased costs savings.

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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.

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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.

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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.

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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 continues to grow as our customers' needs have grown with efficiency, and safety as key drivers. Our facilities compliment the 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.

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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.

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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.

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Con-Vey

Con-Vey is a leading manufacturer of material handling equipment and a proven, high quality supplier offering innovative solutions to customers in nearly 20 countries. Con-Vey designs and manufactures complete systems for automated material handling, wood panel processing, packaging, and laminating, including feeders, stackers, and conveyors. Con-Vey also specializes in beam presses, robotics, and PLC control systems. For more information on Con-Vey's innovative solutions, visit CON-VEY.COM or contact Product Manager for Panel Products, Brent Hensley, at brent.hensley@con-vey.com.

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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 fits 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 particleboard, fiberboard, plywood, OSB, or CLT. Our sanding systems are capable of processing up to 145-inch-wide panels with thicknesses up to 13 inches.

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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.

Covestro LLC continued:

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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.

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Dominion Chemical Company, Inc.

Wax products 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.

Dominion Chemical Company, Inc. continued:

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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.

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Dürr Systems, Inc.

Dürr Systems, Inc. offers multi-pollutant clean-air 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, ultra-high-efficiency RTO/RCO systems for VOC abatement, and SNCR systems for NO_x control. The Dürr Systems

Dürr Systems, Inc. continued:

aftermarket group also provides upgrades, parts, and service for every make of air pollution control equipment for the engineered wood products industry.

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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.

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EVERGREEN ENGINEERING, INC.
ENGINEERING AND CONSTRUCTION SERVICES

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,

Evergreen Engineering, Inc. continued:

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."

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Evertree North America Inc.

Evertree North America Inc. is the designer, manufacturer and supplier of a family of bio based and renewable adhesive solutions (both unique bio based adhesive compositions plus innovative application dispensing technology) used in the manufacture of composite wood panels. We are revolutionizing plant – based adhesive solutions for a better and more sustainable way of life. We currently have (2) distinct bio-based technology platforms.

Green Boost™ is a bio-based adhesive additive that reduces the amount, while also enhancing the performance of the current traditional petrochemical based resins used today in the manufacture of composite wood panels. The Green Boost adhesive technology delivers significant cost savings to the manufacturer while also providing value added processability and performance benefits with no compromise in board performance.

Green Ultimate™ is a unique bio-based adhesive solution that is free of petrochemical derived formaldehyde and isocyanate. Green Ultimate adhesive technology is used in the manufacture of

Evertree North America Inc. continued:

non-structural composite wood panels and provides a significant improvement in environmental footprint, via reductions in VOC's and emissions of hazardous materials during the manufacture and use of the composite wood product, all while maintaining similar wood composite panel properties.

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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.

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Flamex, Inc.

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.

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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.

Franklin Adhesives & Polymers continued:

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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.

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Fusoni

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.

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Georgia-Pacific Chemicals LLC

Georgia-Pacific Chemicals offers a portfolio of thermosetting resins for plywood, OSB and LVL applications as well as custom-formulated solutions to meet our customers' specific needs. Our innovative new RESI-BOOST® Gen2 adhesive technology, when used with GP resins, has demonstrated significant advantages in increased throughput, lower applications rates and energy savings while maintaining performance, potentially saving or generating millions of dollars per plant. In addition, our Customer Inventory and Prediction Service offers our customers a means of maximizing operational efficiency by optimizing resin order profiles. The GP® Dynamic Microchamber performs formaldehyde emission testing on panels in plants around the world.

Georgia-Pacific Chemicals LLC continued:

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 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.

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Grenzebach Corporation

Grenzebach is a leading global manufacturer and supplier of drying systems for the veneer and building materials industries with over 400 dryer installations worldwide. Our veneer product line includes jet and longitudinal dryers, infeed and outfeed systems, and veneer grading and stacking systems. Grenzebach has completed extensive rebuilds and upgrades on all makes and models of veneer, wallboard, and ceiling tile dryers. Grenzebach Service supplies complete parts and service (on-site and remote) for all building materials drying systems.

Grenzebach Corporation continued:

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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.

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www.guardianchem.com



Hansen-Rice, Inc.

Start with the end in mind. Total facility design to enhance operational efficiency. Ensure that your site, equipment, process, and building envelope seamlessly function as a complete system to optimize employee welfare and maximize throughput. Hansen-Rice, Inc. (HRI) leads in high-performance solutions that optimize operational efficiency and positively impact the Owner's IRR and ROI. HRI's approach is rooted in lean manufacturing and lean construction principles. Our subject matter experts leverage extensive mill operations, process engineering, project planning, and fast-track construction experience to plan and deliver solutions in context with the entire system and your business goals.

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HASHIMOTO DENKI Co., Ltd

Hashimoto Denki Company, Ltd was established in 1946 in Nagoya, Japan, the Japanese woodworking machinery capital. Our company specializes in manufacturing machinery for high-efficient and value-added plywood and veneer production, ranging from veneer lathe lines to panel sizing lines. We offer machinery for total plant operation of veneer, plywood and LVL, serving the worldwide marketplace.

HASHIMOTO DENKI Co., Ltd continued:

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HAWE Hydraulik

HAWE Hydraulik is a well-respected, worldwide, German 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

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H.B. Fuller

Our fast setting, strong bonding tapes and glues deliver near zero waste veneers. Zero waste = more profit. Our patented rotary applicators are designed to increase production uptime and eliminates costly and ineffective chillers. Our wood team has over 50+ years of market experience to ensure the right solution for hardwood and softwood veneer in the plywood, parquet and LVL markets. Our industry first Dry & Green Welding tapes are a next generation solution for eliminating laps and gaps while further maximizing drier efficiency. Our goal is simple – help you make more money and build better wood products.

H.B. Fuller continued:

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Henkel

Henkel is the world's largest Adhesive company. LOCTITE® 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.

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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

HexArmor continued:

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.

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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 34 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, cross laminated timber, furniture, mouldings and millwork.

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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.

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Huntsman Polyurethanes

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.

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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.

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Idemitsu Lubricants America Corporation

IDEMITSU Lubricants America offers engineered wood industry members a full line of proprietary lubricants including high-temperature chain oils, steel belt, rolling rod and bending rod oils approved for use in Siempelkamp ContiRoll®, Küsters/Metso, and Dieffenbacher continuous presses. IDEMTISU also produces PFPE/PTFE grease for high temperature roller bearings, hydraulic, gear, and heat transfer fluids specifically formulated for panelboard presses. IDEMTISU manufactures products in Louisville, KY and has a nation-wide distribution network to serve our customers. IDEMTISU has a team of lubrication and reliability experts that are ready to help improve reliability and reduce lubrication related parts replacement, downtime, and labor costs.

Idemitsu Lubricants America Corporation continued:

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IMAL-PAL Group

Established in the 1970's, the Group is a world leader in the manufacture and supply of equipment and systems. It's 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.

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IMEAS Inc.

IMEAS is a world leader in surface finishing solutions, with over 3,000 machines operating worldwide. 2021 marks IMEAS's 55th 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

IMEAS Inc. continued:

wood panels, decorative laminates, flooring and solid surface products, etc. IMEAS specializes in extra wide machines - 12' (3.6 meters) and cross-belt sanding for wood products.

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Intertape Polymer Group

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.

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Itipack Systems

Itipack Systems is a world leader in integrated automated strapping solutions since 1970. Each one of our systems shares in our firm commitment towards high value, optimum performance, and long-lasting results. We provide custom solutions to industries with specific and unique manufacturing requirements.

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JAX, INC.

JAX is a specialty lubricant manufacturer with expertise in formulating application-specific lubrication solutions designed to protect and extend the life of critical equipment. At JAX, producing great lubricants is just the beginning. Services such as technical support, used oil analysis, facility audits, onsite training, and local inventory all help increase production efficiency. Contact us today to find out why a growing number of operations trust JAX.

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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 SmartRING Stranders, SmartDISC Stranders, Rotary Debarkers, and Conveying/Feeding equipment for the OSB market – all backed by our best-in-class engineering, manufacturing, installation, service, and parts support teams. Recognized as the global leader in stranding technology, Kadant Carmanah holds an impressive 80% of this market share.

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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.

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Knight Material Technologies

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.

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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.

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LIMAB North America

LIMAB is the world leader in non-contact laser measuring systems for composite panels and engineered wood products.

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LDX Solutions

LDX Solutions 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.

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LEDINEK

LEDINEK is global leader in Cross Laminated Timber (CLT), Glulam Beam and finger jointed Solid Timber technology. Knowledge of mechanical engineering and practical experience in mass timber solutions gained over decades combined with our SOTA equipment, allows us to equip you with individually optimized complete solutions in engineered wood production. From concept and design, to installation, training and commissioning, we provide the leading finger jointing and panel & beam press technology, state of the art planing, moulding, sawing and splitting solutions, material handling equipment, data flow management and excellent aftersales support for you. We cherish our partnerships - Count on us!

LEDINEK continued:

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www.ledinek.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:

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Cranberry Township, PA 16066, USA
www.matthewsmarking.com

McLube Release Agents & Lubricants

McLube Release Agents & Lubricants is a globally recognized leader in the release and lubrication industries headquartered outside Philadelphia, USA. Founded in 1954, McLube Release Agents & Lubricants has remained at the forefront of the release agent, anti-stick, and lubrication markets by providing quality, tailor-made 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 Release Agents & Lubricants for more information, on-

McLube Release Agents & Lubricants continued:

site technical assistance, and samples of our proven formulas. McLube Release Agents & Lubricants is a brand of McGee Industries, Inc.

Contact:

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Glenn Dublisky – Sr. Technical Representative
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www.mlube.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 "spindleless" lathe drives logs on their circumference with spiked discs instead of spindles, resulting in better veneer quality, higher recovery, and extremely close thickness tolerance. The lathe is part of an automatic veneer peeling line featuring automatic knife changing, automatic stacking, and green composing of random width veneer to save labor costs and increase dryer utilization. Meinan also manufactures scarf compositors, grading systems, automatic layout lines, and sanders. Represented in USA by Merritt Machinery, LLC in Lockport, NY.

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U.S. Representative:

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Lockport, NY 14094, USA
www.merrittmachinery.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:

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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, government, and commercial clients since 1969 with a particular expertise within the forest products industry. With offices in Arkansas, North Carolina, Maine, and British Columbia, Mid-South can serve clients across all North America. Our services include Engineering,

Mid-South Engineering continued:

Project Development, Project Management, and Construction Support. 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:

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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:

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Molalla, OR 97038, USA
www.millmachinery.net

MINDA North America, LLC

MINDA has been meeting customer needs in the engineered wood industry for more than 40 years, providing leading technology for laminated timber processes. Whether the application requires custom press technology, material handling, data flow management, or overall plant development, MINDA provides specific solutions from concept and design to installation and commissioning. MINDA is a global supplier of flexible, high speed presses for Cross Laminated Timber (CLT), Glulam Beam, and LVL Beam applications. Headquartered in Minden, Germany, with our latest expansion of a full-service manufacturing facility located in Granite Falls, North Carolina, USA.

Contact:

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MSK Coverttech, Inc.

MSK Coverttech is a systems manufacturer that specializes in a variety of End-of-Line Packaging Systems, which include Pallet/Load Automatic Bagging Systems (Auto-Baggers) that provide 5 sided protection for a variety of Engineered Wood Products. With over 5,100 installations world-wide since 1975, a local North American presence based just outside of Atlanta, GA, and with offices and service locations around the world, MSK is ready to serve your End-of-Line Packaging needs.

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NESTEC, Inc.

Founded in 1999, NESTEC is a global leader in VOC and HAP emissions control. NESTEC provides innovative pollution management and abatement technologies for a range of industries, including specialty chemicals, wood products, ethanol, and building products. NESTEC's solutions control carbon monoxide, wood dust particulate, condensable organic aerosols, alkali metal containing ash, and water-saturated air streams. NESTEC engineers have treated emissions for over 25 years in plywood, particleboard, oriented strand board (OSB), and wood pellet plants.

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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:

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www.next-wire.com

Nicholson Manufacturing Ltd.

Industry Leader in ring debarking technology since 1948.

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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-to-reach parts of the equipment.

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Northwest Adhesives, Inc

Northwest Adhesives, Inc. offers high performing, cost efficient, "pre-coated" tapes for composing wood veneers, parquet flooring or LVL veneer into durable, continuous full sized sheets. When used with Northwest "spot glues" our PS-tapes provide a continuous, more durable wood assembly and improves lay-up efficiency and reduces cost. Some customers also invest in "Re-Coat" where they use both Spot glue and PS-tape together for best holding power. In the late 1990's Northwest Adhesives, Inc. started manufacturing pre-coated strings and tapes to supply to the plywood industry for veneer composing. Since our beginning we have grown to become a global leader in manufacture, sale and technical service for pre-coated hot melt strings and narrow tapes for veneer composing on Raute, Durand-Raute, Hashimoto, Kuper and PES compositers.

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OCI Melamine Americas

OCI Melamine is a supplier of melamine. Melamine is used in the manufacture of formaldehyde based resins commonly found in decorative surfaces, OSB, plywood, MDF boards and others.

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Owens Corning® - WeatherPro®

Owens Corning® is the largest supplier of coated woven wrap to the Engineered Wood Industry. Its custom-printed 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. Owens Corning® 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. Owens Corning's global supply chain efficiency is achieved by our strategic manufacturing and distribution centers located throughout North America, Asia & Europe.

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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).

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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.

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Radian Robotics

Radian Robotics provides the newest and most advanced robotics and technology for marking, labeling, barcoding, cardboard application, material handling, and other custom solutions in the wood products industry. Radian uses robotics for stenciling sidewall identification as well as end striping and coding. One system for both applications with availability to use multiple colors. Radian'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!

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Raute

At Raute, we have global expertise in wood products manufacturing and we are technology and innovation leaders. Raute invests in advancing the production process of plywood, LVL, and engineered wood products. Raute provides profitable solutions for large mill-wide projects, individual process lines, equipment upgrades, spare parts and service. Raute is your partner in production performance.

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REA JET

REA JET has been a global leader of coding and marking solutions for the engineered wood industry for over 30 years. Whether you're looking to print APA grade stamps, large logos & graphics, 2D scannable barcodes or nail grid patterns, REA JET has flexible and reliable systems designed to run at high speeds and hold up in the harshest environments. Contact REA JET today to learn more about our products and capabilities for all of your traceability needs.

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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, ink jet printing, labeling, and packaging requirements. Samuel's product line includes steel and plastic strapping, pneumatic and manual hand tools, seals, edge protection, 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. The Product Identification Division provides fully automated systems for ink jet printing for grade and marketing requirements, as well as piece and package labeling for identification, tracking and shipping.

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www.samuelpsg.com

Sansin Corporation (The)

Backed by over 35 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 retardant coatings, Sansin's Precision Coat products provide wood protection for a variety of substrates and engineered wood products, including cross-laminated timber, siding, OSB, glulam, millwork and timbers - delivering unparalleled beauty and durability in environmentally friendly formulas. New locations in Europe and the United States.

Sansin Corporation (The) continued:

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SASCO - Polymer Solutions Group, LLC

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.

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Siemer Milling

Siemer Millings produces and markets Glu-X. Glu-X is an All-Natural Chemical Free special glue extender milled from wheat, and used expressly as the protein-starch adhesive for the wood panel (plywood) industry. This proprietary product was developed from the trade secret processes with the contributions of plywood manufacturers, master millers, adhesive scientists and cereal chemists.

Siemer Milling continued:

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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.

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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,

Signode Packaging Systems continued:

equipment service, customer service and engineering departments can help you design the optimum protective packaging system for your application.

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SMARTECH

Smartech is a technology provider offering software solutions and production equipment for dramatically improving manufacturing processes in the engineered wood sector. Smartech connects people, plant and process with the Artificial Intelligence-based Autonomous MaNEWufacturing™ SW Suite. This solution brings autonomy to critical production processes with the Ultimate Operator™ resulting in lower costs, Optimize production speed while maintaining or increasing product quality.

Smart MaNEWufacturing™ solutions include advanced in-line systems to reduce wax and resin consumption and expenditure without affecting quality.

Smartech is a trusted partner for the world's leading manufacturers in the engineered wood industry.

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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.

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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.

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Stiles Machinery

With world-class machinery backed by the nation's largest team of service and support specialists, an extensive inventory of ready-to-ship parts, and the industry's only nationally accredited workforce training program, Stiles is your solution for any challenge and your partner in every success. Headquartered in Grand Rapids, Michigan, Stiles and has regional offices across North America including High Point, North Carolina; Bristol, Pennsylvania; Coppell, Texas; Rancho Cucamonga, California; and Queretaro, QRO Mexico. Stiles is a proud member of the HOMAG Group, the world's leading provider of integrated solutions for production in the woodworking industry and woodworking shops.

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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.

Stratachem Solutions Group LP continued:

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Sweed Machinery, Inc.

SWEED is known in the industry as the superior choice for providing full veneer dryer infeed and outfeed systems, dry, green, and random veneer stackers, 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. SWEED is based in Oregon, USA, and has served the industry for over 65 years; SWEED continues its legacy in offering unmatched quality, customer service, engineering, and technical support.

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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.

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TSI (Teal Sales Inc.)

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.

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Union Pacific Railroad

Union Pacific Railroad delivers the goods families and businesses use every day with safe, reliable and efficient service. Operating in 23 western states, the company connects its customers and communities to the global economy. Trains are the most environmentally responsible way to move freight, helping Union Pacific protect future generations. More information about Union Pacific is available at www.up.com.

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University of Tennessee, Center for Renewable Carbon

The Center for Renewable Carbon is a state-of-art research facility at The University of Tennessee. The CRC has 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.

University of Tennessee continued:

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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.

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Venango Machine Company, Inc.

Venango Machine and our sister company, Custom Engineering, are complete platen services providers 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 provide 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.

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Veneer Services, LLC

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

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Walker Emulsions

Walker Emulsions is a supplier of high quality, highly effective emulsions for the wood composite industry. We have a selection of emulsions that will fit the needs of high to low temperature pressing and we can make products specifically to match your process.

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www.walkerind.com

Wanhua Chemical (America) Co., Ltd.

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Contact:

Jacob Sturgeon – General Manager
Phone: 613-836-0404
Email: jacob.sturgeon@us.whchem.com
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Contact:

Mike Crondahl – President, Owner
Phone: 604-607-7010
Email: crondahl@westmill.com
30640 Marshall Road,
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www.westmill.com



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.

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Robert Pitts – BusBusiness Manager,
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990 Owen Loop North,
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Wood Care Systems

Wood Care Systems provides Bor8 Rods, a solid preservative inserted into drilled holes. When the moisture content gets high enough in the wood to host decay, the rods dissolve and diffuse through the wood and will diffuse across glue lines. Bor8 Rods are 100% Boron and will arrest and prevent wood rot for 20 years or more. They are very safe to handle used extensively in utility poles railroad structures and have been around since the 1980's. Please contact us for further information.

Contact:

Jim Renfroe – President
Phone: 800-827-6000
Email: jim@ewoodcare.com
719 Kirkland Avenue,
Kirkland, WA 98083, USA
www.ewoodcare.com



A full house at the 2022 Panel & Engineered Lumber International Conference & Expo, Atlanta, GA. Photo from Panel World.

EWTA ADVISORY COMMITTEE MEETS IN ATLANTA AND WELCOMES NEW MEMBERS

The 2022 spring EWTA Advisory Committee meeting was held in conjunction with PELICE (Panel & Engineered Lumber International Conference & Expo) on March 30, 2022, in Atlanta, Georgia.

The meeting, led by Chair Chris Degnan, and the first in-person meeting in two years, provided an opportunity to hear updates on membership, finances, communication and research projects.

During 2021, three committee representatives changed due to retirements or departures. Mark Aucoin with Hexion filled the position left open with Mark Clark's move to another division, Bob Hadden with Samuel Strapping Systems filled the position left open with the retirement of Dave Gagnon, and John Baetz

with Ashland Specialty Ingredients, now Bostik, filled the position left open with the retirement of Mark Vlasisvich.

The 2022 EWTA budget, presented and approved by the APA Board of Trustees at their fall meeting, includes assumptions of a growth in membership and 75% of past Info Fair attendance and sponsorships. The 2022 budget will not dip into reserves, but includes a projected surplus of \$61,350, ending the year with reserves of \$285,498.

Plans are underway for the 2022 APA Annual Meeting scheduled for Oct. 15 – 18, 2022, at the JW Marriott Miami Turnberry Resort & Spa in Aventura, Florida. The EWTA Advisory Committee meeting, as well as the EWTA Info Fair will be held in conjunction with that event.

Retirements announced

Dave Gagnon, Samuel Strapping Systems Group

Dave Gagnon, North American Forest Industry Manager for Samuel Packaging Systems Group retired in April 2022 with nearly 45 years in the industry. His time with Samuel includes 22 years with Samuel Packaging in Western Canada, four years in the U.S. Pacific Northwest and 19 years in the U.S. South. In addition, Gagnon served on the EWTA Advisory Committee for 15 years.



Dave Gagnon

Mark Vlasisavich, Ashland Specialty Ingredients

Mark Vlasisavich, Strategic Account Manager at Ashland, retired in November 2021 after more than 20 years in the engineered wood industry and 35 years with Ashland. Prior to his role in engineered wood adhesives, he was an account manager for Ashland Drew water treatment services. Vlasisavich served on the EWTA Advisory Committee for six years. Thank you, Dave and Mark, for your service and dedication to the wood industry, EWTA and APA. Congratulations on your retirement!



Mark Vlasisavich

MARK YOUR CALENDARS FOR THE 2022 EWTA INFO FAIR

After a two-year pause due to global COVID restrictions, Info Fair 2022, held in conjunction with the APA Annual Meeting, will take place in sunny Florida. The event will be held at the JW Marriott Miami Turnberry Resort & Spa in Aventura, Florida from Oct. 15-18.

Sponsorship details were sent to EWTA members in late April and includes four sponsorship levels – Diamond; Platinum; Gold and Silver, with additional opportunities to sponsor the golf or tennis tournaments. Exhibit registration opens in late May, with the APA meeting registration available in August.

For information, visit www.engineeredwood.org and click on Events and Programs, or contact Events Coordinator Emily Houg at events@apawood.org.



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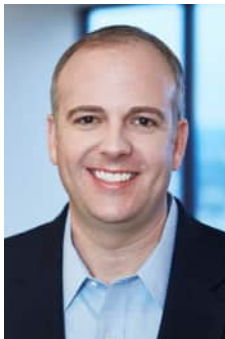
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New Trustee joins APA Board

Two new members have been elected to the APA – The Engineered Wood Association Board of Trustees, filling vacancies created by changing roles and departures.

Jimmy Mason, LP Executive Vice President of OSB

Jimmy Mason, LP Executive Vice President of OSB, is filling the vacancy created when Jason Ringblom changed positions within LP. Mason joined LP in 2006 and assumed the role as head of the OSB business in 2022. He has over 20 years of manufacturing operations and leadership



Jimmy Mason

experience. Prior to joining LP, Mason held positions with International Paper and Milliken & Company.

Matt Tobin, West Fraser Vice-President

Matt Tobin, West Fraser Vice-President, Sales and Marketing, started at West Fraser in the Canadian lumber sales group and has 16 years of progressive experience, predominantly in Canadian lumber. Tobin is filling the seat left open with Mark Dubois-Phillips' departure.



Matt Tobin



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EWTA WELCOMES NEW MEMBERS

BIELE GROUP

Since 1973, Biele Group has been a global manufacturer of customized equipment and turnkey solutions for plywood, particle board, OSB and solid wood applications. The solutions developed by Biele include veneer handling up to the final packaging lines, going through automatic lay-up systems, press lines and finishing processes, including fully automatic solutions for Hardwood Veneer Press lines. Biele's expertise includes advanced data management and complete plant development from concept and design to installation and commissioning. Headquartered in Spain with local sales & technical support facilities in Atlanta, Georgia, Biele provides full service for projects developed in America. Paul Gavin, Sales Area Manager, can be reached at biele@biele.com.



LEDINEK

LEDINEK is a global leader in Cross-Laminated Timber (CLT), Glulam Beam and finger-jointed Solid Timber technology. Knowledge of mechanical engineering and practical experience in mass timber solutions gained over decades combined with our SOTA equipment, allows us to equip you with individually optimized complete solutions in engineered wood production. From concept and design, to installation, training and commissioning, we provide the leading finger jointing and panel & beam press technology, state of the art planing, moulding, sawing and splitting solutions, material handling equipment, data flow management and excellent aftersales support for you. Andrej Holc, Sales Engineer, can be reached at andrej.holc@ledinek.com.



WOOD CARE SYSTEMS

Wood Care Systems provides Bor8 Rods, a solid preservative inserted into drilled holes. When the moisture content gets high enough in the wood to host decay, the rods dissolve and diffuse through the wood and will diffuse across glue lines. Bor8 Rods are 100% Boron and will arrest and prevent wood rot for 20 years or more. They are very safe to handle, used extensively in utility poles, railroad structures and have been around since the 1980s. Jim Renfroe, President, can be reached at jim@ewoodcare.com.



Share your Company News

The Engineered Wood Journal welcomes news from its members. News suitable for publication in upcoming issues includes press releases about new hires, new products, company news or awards won. Please send your information or direct questions to LaDauna Wilson.

Management change at FLAMEX Inc.

Tony Thomas is the new president of FLAMEX Inc., replacing Allen Wagoner, who has served 13 years as president. Thomas has been with the company for almost 32 years, serving as Vice President for the last 13 years. Ed Pridgen will assume the role as Vice President in addition to his position as MINFOG Product Manager.

Wagoner plans to remain with the organization for an indefinite period of time to support the new management team.

BID Group to partner with Yaskawa America for new robotic systems

BID Group recently announced it has entered into a strategic partnership with Yaskawa America, Inc, Motoman Robotics Division. The focus of the partnership is to implement robotic systems into BID's operations and develop new wood processing innovations. Yaskawa Motoman is a leading industrial robotics company in the Americas. As the industry leader in Operational Lifecycle Excellence, this strategic partnership will support BID in its mission to deliver its customers top performance, innovation, remarkable service and results through the continuous improvement of its operations, products and services.

Strategic partnership offers automated coding and marking systems solution

REA JET US and Willamette Valley Company recently formed a Strategic Partnership bringing turn-key, state of the art ink jet printing and automated systems to the wood products industry. The service provides marking and coding equipment, ink and systems for OSB, Plywood, LVL, Lumber or Moulding and Millwork.

Sansin Corporation announces global expansion

The Sansin Corporation, a global leader in environmentally friendly, high-performance wood protection, has announced that it is expanding operations in Europe and the United States. The company, which is family owned and headquartered in Ontario, Canada, has opened a new facility. Centrally located in the Netherlands, it will be the European hub for sales, operations and distribution. Jan Willem Bos has been tapped as Managing Director of the European facility that will be operating under the name TimberTek Solutions B.V. A European sales and operations team will be formed to service dealers, OEMs and architectural projects with product, samples and custom requests.

Sansin is simultaneously starting up a manufacturing, distribution and sales location in U.S. under Sansin America, Inc., with plans to be fully operational by spring 2023. This facility will support future product development and finishing operations.

The new locations will help service the company's current and growing global customer base.

David Thomas joins BIELE USA

David Thomas has joined the team at BIELE USA as Technical Service Manager, bringing a strong experience in electrical and automation service engineering and project installation. Thomas will support Biele customers and production lines in North America.



David Thomas

BIELE USA is in Atlanta, Georgia, and is a subsidiary of BIELE Group, a worldwide leader in engineering and automation for the Woodworking, Building products, Metal Sheets/Plates and Automotive Industries.

USNR & Wood Fiber Group announce company leaders

As the dust settles from the announcement of the merger of USNR and Wood Fiber Group, the synergies are becoming clearer and gaining focus. Craig Tompkins and Dale Brown are the leaders of the combined company.

Craig Tompkins, CEO, is responsible for developing growth strategies and organizational structure while overseeing finance, human resources, and mergers and acquisitions that support the overall company. Tompkins came to the wood processing industry when he joined Burton Saw and Supply as President and CEO in 2015.



Craig Tompkins

Continued on next column

In 2019 he was named President and CEO of the merged Burton Saw and Simonds International.

As president, Dale Brown's focus is the day-to-day operations of the combined company.

Brown is a long-standing member of the USNR team. A graduate of the business program at Linfield College, he joined USNR in 1986.

Over many years he held roles in accounting and mid-level management in the areas of capital and parts sales. In 2009 he was appointed Vice President, responsible for all USNR's operations related to mechanical products.

In 2016 he was named Senior Vice President with added responsibility overseeing USNR's newly acquired European business. In 2018 Brown was appointed President of USNR.



Dale Brown

Raute Corporation's President and CEO Tapani Kiiski leaves his position

Raute Corporation's President and CEO Tapani Kiiski will leave his position by mutual agreement with the company as of April 30. Kiiski has been Raute's President and CEO since March 16, 2004.

The company's Board of Directors has initiated the search process for a new CEO and appointed Petri Strengell as the company's interim President and CEO, effective May 1. Strengell has been the company's Chief Operating Officer (COO) on the Executive Board since 2019 and has served in various executive management roles as a member of the company's Executive Board since 2004.

ADDITIONAL PRODUCTS & SERVICES AD

USNR

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Sales Manager, Veneer Systems
Phone: 541-284-5465
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Sam Pope – North American Sales Manager,
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Willamette Valley Company, LLC (WVCO)

Robert Pitts,
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