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CORRIM Continues to Assess Wood’s Performance

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**About the Cover:**
APA’s $4.5 million lab renovation, opening this spring, will greatly expand the association’s assembly testing capabilities. See story and more photos, page 28.
It’s getting hot in here. How will your dryer respond?

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**In this issue...**

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

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

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

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

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

Read more about APA’s digital offerings in Studebaker’s story, “Can You Hear Me Now?” starting on page 16.
Mary Jo Nyblad, former APA Board of Trustees member, EWTA Advisory Committee member, and retired vice-president of commodity sales and transportation at Boise Cascade, was the 2018 recipient of the Bronson J. Lewis Award at APA’s Annual Meeting in San Antonio, Texas, last fall. The award recognizes individuals for their leadership and outstanding contribution to the engineered wood industry. It is dedicated to the late Bronson Lewis, who served for 24 years as secretary and then executive vice president of APA.

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

Nyblad was an active member of many industry associations, including the North American Wholesale Lumber Association and the Pacific Northwest Association of Rail Shippers. At APA, she served as chairman and vice-chairman of the Board of Trustees, as well as chairman of the APA Finance Committee and Marketing Advisory Committee. For EWTA, she served as chairman of the association’s Advisory Committee.

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

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

Roy O. Martin III is president, CEO and CFO of Martin Sustainable Resources LLC, Martin Timberlands LLC and Marco LLC. He also is the director and co-founder of Indigo Minerals LLC, a Houston-based oil and natural gas exploration company.

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

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

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

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

**L. Clary Anthony, Sr.**

L. Clary Anthony, former president and CEO of APA member company Anthony Forest Products of El Dorado, Ark., died Sept. 20, 2018, at the age of 93 in Shreveport, La. Mr. Anthony was born Oct. 1, 1924, in Hopeville, Ark. He enjoyed hunting, golfing and spending time with family. He served in the Navy and also served as chairman of the Southern Forest Products Association in 1993. Mr. Anthony is survived by his wife of 19 years, Frankie Sayers Anthony; son Luther “Mark” C. Anthony Jr. and wife Sharon of Atlanta, Texas; daughter Lynda J. Anthony of Shreveport, La.; seven granddaughters and many nieces and nephews. He was also preceded in death by a wife, June Henderson Anthony, his parents, four brothers and two sisters.

**William A. “Bill” Baker**

Bill Baker, an APA employee who worked in the association’s Technical Services Division, died October 25, 2018. He was 78. Mr. Baker was born in Seattle on Dec. 29, 1939. He earned his professional engineering degree from the University of Washington, and his early employment included a job with Weyerhaeuser. He later designed airplane components for Boeing before moving to Tacoma, Wash., and joining the team at APA. Mr. Baker is survived by his wife of 35 years, Gracie Baker; his sister Bonnie O’Neil; his son, William T. Baker; and his daughters Karen Baker, Kelley Jean Baker, and Jennifer Jensen.

**Kenneth Wayne Eeds**

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

**CPA 2019 Leadership Team Takes Office**

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

Jim Buffington of Roseburg Forest Products will serve as the 2019 CPA Board chairman, Pat Aldred of GP Wood Products as vice-chairman, and David Smith of Timber Products as secretary/treasurer. Louis Brassard of Tafisa Canada completed his term as CPA chairman at the end of 2018 and now serves as immediate past chairman.
Formaldehyde – particularly that emitted from composite wood products – has long been a topic of conversation in building circles, and discussions have intensified since new national emissions regulations took effect last June. While not all facets of the industry are affected (structural plywood, OSB and structural engineered wood products such as I-joists, laminated veneer lumber and glued-laminated timber are exempt), the regulations are still on the radar of wood product manufacturers, suppliers and industry associations across the board. Many have been preparing for these new rules for years.

About formaldehyde

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

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

CARB’s Air Toxic Control Measure (ATCM) for Composite Wood Products became the foundational guide for the U.S. Environmental Protection Agency’s regulations, which now apply nationwide.

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

Industry Input: CPA

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

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

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

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

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

A draft version of Canada’s regulatory proposal is expected to be released this spring.
bipartisan federal legislation to establish the national standard for formaldehyde emissions from composite panel products signed into law by President Obama. The legislation was supported by industry, labor, health care and environmental groups, and it required the EPA to issue implementing regulations.

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

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

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

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

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

Industry input: DHA

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

What Wood Products are Exempt and Why?

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

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

APA technical literature is available and can be downloaded from APA’s website at www.apawood.org (search for APA Technical Note J330).
plywood stock panels and hardwood veneer manufactured in North America.

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

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

**APA’s Efforts**

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

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

Jackson Morrill, President
Composite Panel Association

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

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

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

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

Hexion was ahead of regulations when it introduced a resin technology called EcoBind 10 years ago, says Mark Gruenwald, Hexion's corporate director, scientific affairs. This enabled panel board manufacturers to meet stringent standards before they were enacted by regulatory agencies.

“The world's toughest production standard”
While TSCA Title VI requirements are stringent, the North American industry has made the mill investments and technical modifications to gain compliance and, as a whole, looks forward to a uniformly regulated marketplace that can now focus on compliance.

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

Sheila Cain (scain@engineeredwood.org) is communications director of the Engineered Wood Technology Association and editor of its Engineered Wood Journal.
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When APA – The Engineered Wood Association first established roots in the Pacific Northwest as the Douglas Fir Plywood Association in 1933, social media, mobile phones, websites, webinars and YouTube videos probably seemed like concepts more suited to Aldous Huxley’s fictional Brave New World.

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

The way people take in information has changed dramatically since then. Newspaper circulation is half what it was during its 1973 peak. And podcasts and streaming services have altered the listening landscape.

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

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

As audience preferences have changed, APA’s communications toolbox through the decades has included various mixes of publications, advertising, educational programs and, more recently, digital marketing.

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

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

The primary website, apawood.org, has become the main repository of...
“Field services representatives still consult face to face with code officials, designers and builders to educate and promote engineered wood solutions, as they have for decades. But webinars and videos provide an effective way for us to extend our reach,” says Tom Kositzky, director of APA’s field services. “The on-demand versions housed on our website provide a convenient way for people to view the information on their own schedule.”

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

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

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

Advertising Versus Earned Media
Advertising strategies have also cycled through phases. Print ads, the standard for decades, have largely been supplanted by digital ads that allow people to click through to specific pages on a website. That seemed like an effective way to target audiences – until recent years.

Generation X and millennials, who grew up in the digital world, say they aren’t swayed by paid advertising. They are driven more by relevant content and third-party endorsements, which makes earned media placements – publicity gained through promotional efforts – more valuable. Pitching stories to industry and trade publications and mainstream media is time intensive, with...
no guarantees that the marketing message stays fully intact, but the payoff can be significant.

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

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

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

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

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

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

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

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

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

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

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

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

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

**Employment outlook steady**
Most members indicated that their wood-related business last year improved over the previous year. Seventy-two percent said that business improved in 2018 over 2017; nearly the same (71 percent) as in last year’s survey. Twenty-three percent felt it stayed the same over the previous year, only slightly lower than reported the year before (27 percent). Five percent felt business worsened last year. Three percent of members felt that way the year before.

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

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

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

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

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

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

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

Sheila Cain (scain@engineeredwood.org) is communications director of the Engineered Wood Technology Association and editor of its Engineered Wood Journal.
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A decade ago, single-family housing starts in the U.S. hit bottom at less than 500,000 starts, down 75 percent from the 2005 peak of 1.75 million. The collapse in single-family starts led to several difficult years of business for those in the engineered wood products industry. Now, 10 years later, the market is once again looking uncertain.

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

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

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

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

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

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**U.S. Housing Starts**

(Thousands)

<table>
<thead>
<tr>
<th>Year</th>
<th>Multifamily</th>
<th>Single-family</th>
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<tbody>
<tr>
<td>2002</td>
<td>2,250</td>
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</tr>
<tr>
<td>2018</td>
<td>250</td>
<td>250</td>
</tr>
</tbody>
</table>

Source: Census Bureau. APA forecast.

---

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

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

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

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

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

EE: As the marketplace slows, APA is taking this opportunity to develop tools and education to position our members to be ready for the next peak. On the education front, APA has been developing tools and programs to make it easier to engineer, design and build using our members’ products. For example, new webinars in APA’s Resource Library – with a focus on framing basics, advanced framing, fire protective assemblies, force transfer around openings, and other topics – have been extremely popular with the designer and builder communities. The live webinars are selling out just days after they’re introduced, and the recordings are getting a lot of views as well.

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

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

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

Sheila Cain (scain@engineeredwood.org) is communications director of the Engineered Wood Technology Association and editor of its Engineered Wood Journal.
The APA Tacoma Research Center hasn’t received an upgrade – aside from a 5,000-sq-ft addition in 2006 to accommodate installation of full-scale house and diaphragm performance test equipment – since it was built in 1969. This spring, the $4.5 million expansion will open, offering enhanced testing capabilities, a 70-ft by 75-ft “strong floor” and additional space to test shearwalls up to three stories tall.

**APA’S NEW LAB: By the Numbers**

**STRONG FLOOR:**
- **28** tons of steel (rebar)
- **830** tons of concrete
- **860** anchors

**STRONG WALL:**
- **30** feet high
- Made up of **10** blocks, each weighing more than **19,000** lbs

The “strong floor” in the APA lab’s new addition will allow for the testing of taller and heavier assemblies.
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The Engineered Wood Technology Association (EWTA), the related nonprofit supplier organization of APA – The Engineered Wood Association, serves as a networking and information transfer vehicle between North America’s engineered wood product manufacturers and their product, equipment and service providers.

This membership directory, updated for 2019, includes company descriptions and contact information for all EWTA members. It’s just one of many tools designed to help members connect with each other and the industry.

Membership Benefits
The benefits of EWTA membership are many. Among them:

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

Free Vital Market Research and Publications
- FREE Market Research – Stay Informed! ($1,150 if purchased by non-members – free to our members)
  (note – if you would like samples of these reports, just ask! Our members tell us they are incredibly helpful to keep track of markets that affect our industry)
- Monthly Housing Starts Report (annual subscription rate for non-members is $600)
- Quarterly Production Report (annual subscription rate for non-members is $275)
- Structural Panel & Engineered Wood Yearbook ($275 for non-members)
- APA Management Report (free to members)
- APA Annual Report (free to members)
  (Other APA publications are available for free or at a discount to our members when ordered through our office. For more on APA Publications, visit https://www.apawood.org/resource-library)
- FREE EWTA Publications, Free Directories and Free or Discounted Marketing Opportunities:
  - Connections Newsletter – Industry and member news available free to all APA and EWTA members
  - All EWTA members may submit press releases and news for free
  - All new members have a story about their company when they join
  - EWTA members may sponsor the newsletter as part of an Info Fair sponsorship package or for $50 per issue
  - E-mailed to all APA and EWTA members
- Engineered Wood Journal magazine sent to approximately 3,000 industry subscribers
- FREE directory listing for members in the spring issue
- FREE directory listings for exhibitors in the fall issue
- Opportunities for members to submit articles or news
- Discount advertising rates available for members
- EWTA Annual Report distributed to all APA and EWTA members with your company listed as a member

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

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

Evergreen Engineering, Inc.
Evergreen is a multi-discipline (mechanical, electrical, civil/environmental, and environmental) engineering firm. From project planning and feasibility studies through detailed engineering, construction management, maintenance and process consulting, to start-up and commissioning support, Evergreen can handle any project in your mill. Our wood products experience includes OSB, LVL, I-Joist, Particleboard, MDF, Hardboard, WPC, Pulp & Paper, Lumber, Plywood, Chemical and Resin plants. “Our mission is to provide customized support to move our client’s vision to reality by delivering practical engineering solutions, displaying project leadership and contributing technical expertise.”
Contact: Aaron Edewards - Director, Industrial Business Development
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aedewards@eeeug.com
www.evergreenengineering.com

Dürr MEGTEC, LLC
Dürr MEGTEC, LLC 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; and ultra-high-efficiency RTO/RCO systems for VOC abatement. We also offer pulse jet fabric filters (baghouses), SNCR systems for NOx control; and cycloidal dust collectors. The Dürr MEGTEC aftermarket group also provides upgrades, parts, and service for every make of air pollution control equipment for the engineered wood products industry.
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Evertree
Plant Based Chemical Solutions offering a revolution in industrial solutions and materials with cost competitive, plant-based chemicals that offer the same or better performance than petroleum-based chemicals. Our first product family SynerKID™ offers a 20 to 40% reduction of formaldehyde and petroleum based resins used in wood based panels with a significant raw material cost reduction while achieving the same panel properties.
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Fagus GreCon
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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Charlotte, NC 28217
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www.grecon-us.com

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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epridgen@sparkdetection.com
www.sparkdetection.com

EcoSphere
EcoSphere is a new and revolutionary method for removing formaldehyde from indoor environments. EcoSphere is a safe, sustainable curing and resin for the engineered wood products industry. It is environmentally friendly, non-toxic, and offers a 20 to 40% reduction of formaldehyde and petroleum based resins used in engineered wood products with a significant raw material cost reduction while achieving the same panel properties.
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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/upper body protection, and eye wear. At HexArmor, we understand the daily challenges faced by safety teams in the wood products industry. Working to meet growth and operational expectations while keeping employees safe on the job can be a tough balancing act. Injuries are costly. Down time and lost productivity damage company reputations and slow growth. Let HexArmor help you build a PPE program that keeps you operationally efficient while giving your employees the best opportunity to go home safely to their families.

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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 more than 50 manufacturing plants in North America, Latin America, Europe and Asia/Pacific. The Forest Products division of Hexion Inc. is the global leader in supplying resins, adhesives, wax emulsions and ancillary products to the forest products industry. Customers use our materials to manufacture a wide range of composite and engineered wood products including plywood, particleboard, oriented strandboard, medium density fiberboard, structural beams, furniture, moldings and millwork.

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

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Hunto, Guillott & Associates LLC

Hunto, Guillott & 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, L- 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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**IMAL-PAL Group**

Established in the 1970s, the Group is a world leader in the manufacture and supply of equipment and systems. Its extensive production program is able to supply complete turnkey plants for the treatment and processing of fresh and recycled wood, in both the wet and dry areas, for production and processing of particleboard, MDF, OSB, plywood, pellets, pallet blocks and pressed wood-based products in general. IMAL is a leading manufacturer of glue dosing and blending systems and supplies the most innovative on-line and laboratory quality control devices that are found in virtually all the production plants around the world. 

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**IMEAS Inc.**

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

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imeas@imeas.net
www.imeasinc.com

**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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www.itape.com

**ItiPack Systems**

ItiPack Systems has been in business since 1970. We are a manufacturer of automated strapping systems. Contact: Bert Kulk - NA BD/Sales Director
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**JAX, Inc.**

JAX is a full-line lubricant manufacturer with expertise in compounding high-end synthetic and petroleum lubricants. With over 60 years of industry experience, JAX has earned its reputation as a leader in lubricant technology. JAX lubricants are compounded with the finest raw materials and additive chemistry in the industry. Formulation decisions are based upon performance and quality which ultimately lead to substantial, verifiable cost savings in terms of extended machine life, reduced downtime and increased production. Lubrication technology is a continually evolving science. Products that have worked in the past may not be sufficient to provide adequate lubrication in the future. In order to meet the evolving needs of our customers we are constantly analyzing the JAX product line for opportunities to improve value and performance.

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**KADANT Carmanah Design**

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

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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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**Koch Knight, LLC**

A domestic manufacturer and global leader of ceramic media for Regenerative Thermal Oxidizers (RTO). Our media is designed to work in normal to your most challenging application environments. A mixed bed of our FLEXERAMIC® structured media and LPO® 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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McLube

McLube is a globally recognized leader in the release and lubrication industries headquartered outside Philadelphia, USA. Founded in 1954, McLube has remained at the forefront of the release agent, anti-stick, and lubrication markets by providing quality, tailored-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 release aid systems for applications including grade marking, nail and moisture sensitive, and blow detections on panels.

McLube 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 Systems, I-Joist equipment, and related material handling designed for reliable, high speed production with minimal maintenance. McLube has also added 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.

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Lonza Wood Protection

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

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Lundberg

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

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Meinan Machinery Works, Inc.

Meinan Machinery Works, Inc. Established in 1953 in Japan, Meinan develops and manufactures innovative machinery for veneer and plywood production, and holds hundreds of worldwide patents. Meinan’s revolutionary “spindle-less” lathe drives logs on their circumference with spiked discs instead of high speed discs to save labor costs and increase dryer utilization. The lathe is part of an automatic veneer peeling line featuring automatic stacking and high speed production with minimal maintenance.

Contact: Jimmy Nakaya - Sales Director
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U.S. Representative: Merritt Machinery, LLC in Lockport, NY.
info@mclube.com
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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.

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NESTEC, Inc.

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

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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.

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Nicholson Manufacturing Ltd.

Industry Leader in ring debarking technology since 1948.
Contact: Russell Huband - NCVS Manager
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forestsales@nmbc.com
www.debarking.com

Nondestructive Inspection Service

Nondestructive Inspection Service (NIS) 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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OCI Melamine Americas

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

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Rhonda Pizzolato - Customer Service
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www.ocimelamine.com

Owens Corning - InterWrap

InterWrap® 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. InterWrap is a vertically integrated, global manufacturer of innovative coated woven products serving a wide variety of markets. Consistent product quality is achieved by using state-of-the-art equipment along with a strong commitment to partnership with our customers, employees, and suppliers. InterWrap’s global supply chain efficiency is achieved by our strategic manufacturing and distribution centers located throughout North America, Asia & Europe.

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www.interwrap.com

Pallmann Industries, Inc.

For more than 100 years, Pallmann has designed and built size reduction machinery. Specializing in high-capacity, high-performance stranders, flakers, refiners and mill utilized by the engineered panel board industries.

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Clifton, NJ 07012
info@pallmannindustries.com
www.pallmannindustries.com
Paneltech
Paneltech is a young and growing, forward-thinking company comprised of people who have common values and share a common goal: providing environmentally responsible leadership in manufacturing the best performing products for industry. Our panel overlays are designed for high performance end uses and superior processability. They are designed to increase the value of the wood products they cover by increasing their durability, enhancing their appearance, and creating uniform surfaces to enhance the product’s end use.
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PermaPost
PermaPost provides custom pressure treating solutions for engineered wood products used throughout the U.S.A. and Asia.
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Raute
As a global leader in machinery manufacturing, Raute is a partner that has extensive expertise in wood products technology. Raute enables its customers to create value added forest assets by supplying technologies and services for profitable and sustainable production of veneer, plywood, and LVL. Raute continually leads the market in developing cutting-edge advancements for large mill-wide projects as well as individual process lines, line modernizations, and equipment upgrades.
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REAJET
REAJET
Industrial Coding and Marking
REAJET
Because REAJET knows that real demands need real solutions, we continue to be a global leader of coding and marking equipment for the building materials industry. German engineered, our technology has been consistently designed and developed to withstand the demands of harsh production environments. Our extensive line of technology includes Large Character Ink Jet Printers (DOO), zero maintenance High Resolution Ink Jet (HP) printers as well as Laser and Spray Mark systems. Contact REAJET today to learn more about our products, capabilities and service offerings.
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www.reajetus.com

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

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

Sansin Corporation (The)
Backed by over 30 years of proven performance with large commercial, residential and mass timber wood buildings and structures, Sansin is the global leader in developing high-performance factory finishes that deliver the color, durability and performance that architects, engineers and builders can count on. From undercoats, treatments and preservatives to finishes and fire retardants, Sansin’s Precision Coat products provide wood protection for a variety of substrates and engineered wood products, including cross-laminated timber, siding, OSB, glulam, millwork and timbers. Sansin continues to deliver environmentally friendly wood coatings that enhance performance without compromise.
Contact: Caroline March-Long - Director of Sales and Marketing
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Strathroy, ON N7G 4J6 Canada
cml@sansin.com
www.sansin.com

Panel Machinery & Controls, LLC
At Panel Machinery & Controls, our focus is to provide the most up to date and trouble free Equipment design, Servo Motion Control and Automation systems for the Engineered Wood Products Industry. Our engineering staff has years of experience in quality-designed and field proven equipment and controls for the Plywood Industry. We have service technicians experienced with hydraulic & electrical motion control, capable of on-site trouble shooting and programming of all brands of PLC’s and motion controllers. We are a United Laboratories 508A certified panel shop experienced in custom panel design and fabrication. Call or E-mail for more information.
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5422 SE International Way
Milwaukie, OR 97222
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www.panelmachinerycontrols.com
**SASCO Chemical, A PSG Company**
Polymer Solutions Group is an innovative manufacturer of proprietary and custom polymer additives, dispersions, and performance chemicals for the rubber, wood, consumer, construction, and medical industries. SASCO’s TechKote® Release Agents, Additives, and Platen Conditioners are chemically formulated for all composite and structural panel applications. Together we strive to deliver customer-centric solutions that improve our customers’ products, processes and performance.

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

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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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www.spartek.com

**Siempelkamp LP**
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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.utk.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.
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University of Tennessee, Center for Renewable Carbon
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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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Engineered Wood Technology Association (EWTA) is the leading North American organization of suppliers to the engineered wood product industry.

EWTA Info Fair (In conjunction with APA Annual Meeting)
- November 2 – 4, 2019
- JW Marriott Starr Pass Resort & Spa
  Tucson, AZ

To become a member, exhibitor/sponsor or advertise in the Journal visit:
engineeredwood.org
WTA members and guests from around the world gathered in San Antonio Oct. 27-29 for the Engineered Wood Technology Association’s annual Info Fair supplier exhibition. Info Fair is an opportunity for members to share ideas and network with others in the engineered wood industry, and the event is held annually in conjunction with APA’s Annual Meeting. This year, 87 EWTA member companies exhibited at the event, and 61 sponsored. Info Fair was held at the La Cantera Resort and Spa.

In addition to Info Fair, the annual extended weekend also provides an opportunity for both EWTA and APA members to attend APA-sponsored events. Continued page 51
EWTA members posed for the association’s annual group photo.

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Mark Your Calendars: Info Fair 2019 Dates Set

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

Continued from page 48

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

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SUPPLIER EXCELLENCE

EWTA Members Recognized in Annual Supplier Awards Program

by Sheila Cain

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

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

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

The award winners are selected by votes of APA member representatives.
WINNERS OF THE 2018 SUPPLIER OF THE YEAR AWARDS ARE:

EQUIPMENT/TOOLING CATEGORY

USNR

USNR recently acquired the business of Ventek, Inc., the industry leader in veneer scanning, grading, and handling systems for the plywood industry. This rounds out USNR's line of plywood machinery that includes Coe brand lathes, computerized chargers, core drives, tray systems, dryers, stacking systems, lay-up lines, and presses. USNR also supplies machinery for beam lamination, finger-jointing and presses for the composite board industry.

MATERIALS/SUPPLIES CATEGORY

Willamette Valley Company

Willamette Valley Company manufactures epoxies, putties and urethanes for upgrading all wood substrates, and also makes a wide range of water-based coatings, 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/SERVICES CATEGORY

Panel World Magazine/Hatton Brown Publishers

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

INNOVATION OF THE YEAR AWARD

Arclin: Enhanced Bond Technology

Arclin's Enhanced Bond Technology is specifically designed to improve adhesive flow, penetration, and ultimately the bond quality on wood surfaces that are notoriously difficult to bond. Resins incorporating Enhanced Bond Technology better cut through the chemically modified veneer surface to improve adhesive flow and penetration and to increase the depth and consistency of wood failure when gluing overdried veneer.
Today’s designers and specifiers of building materials consider environmental impacts when making the choice of which material to use. Wood products have many positive environmental attributes that may help position wood as a material of choice. However, other building materials producers also make environmental claims to position their materials as positive environmental choices. Without a systematic, scientific basis to assess environmental attributes, sorting out environmental claims can turn into a subjective battle where slick marketing ads can win out over true environmental attributes.

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

### Updating EPDs on Engineered Wood

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

CORRIM researchers have produced LCAs on U.S.-produced plywood, oriented strand board, laminated strand lumber, laminated veneer lumber, glulam beams and engineered wood I-joists, to name a few. The final result of the LCA study for a material is the publication of an Environmental Product Declaration, or EPD, which reports the environmental impacts linked to a product or service. The EPD serves to communicate the environmental performance of a product to consumers. (See side story, What is an EPD?)

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

The need for updated data was to remain in conformance with the North American Structural and Architectural Wood Products PCR and to update the current EPDs set to expire in April 2019.

The wood product production data were collected from individual facilities on a voluntarily basis. Industry participation is vital for the quality of the LCAs and EPDs. The number of wood product manufacturers participating was higher in these last surveys compared to the original surveys for Phase I. The wood industry has an increased interest in quantifying the environmental footprint of their production, which resulted in a greater willingness to participate. The resulting benefit of increased participation means the overall data quality is higher.

### Changes in Latest Reports

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

| Table 1 |
| Pacific Northwest Glulam Allocation used for a Mass or Economic Allocation Approach¹ |
| **Glulam Production** | **Mass Allocation** | **Economic Allocation** |
| Glulam (product) | 88% | 100% |
| Co-Products | 12% | 0% |
| Total | 100% | 100% |

| **Lamstock Production** | **Mass Allocation** | **Economic Allocation** |
| Lumber, Rough Green | 50% | 86% |
| Chips, Green | 24% | 11% |
| Bark, Green | 6% | 1% |
| Hog Fuel, Green | 14% | 1% |
| Sawdust, Green | 6% | 1% |
| Total | 100% | 100% |

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

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

In the CORRIM LCA reports, several impact categories (energy consumed, fresh water consumption, raw material used and waste) are reported (see Table 2). Renewable biomass used for heat energy in wood products facilities represents a major portion of the total energy demand. In all but I-joist production, biomass energy represents between 53 and 63 percent of the total energy use for the EWP. This results in a large reduction in the non-renewable energy used to produce many wood products. Solid waste and non-renewable materials are low in EWP production.

Forest management scenarios consider the CO₂ uptake by trees and its storage as carbon. When the trees are harvested, the carbon leaving the forest is considered an emission. This accounting principle is important because it prevents double accounting. For example, biomass when burned (biogenic carbon) for energy is not accounted as a greenhouse gas and is therefore not part of the global warming potential value. Furthermore, this allows for the harvested wood product carbon to be reported as a carbon store over a long period of time. This treatment of carbon is consistent with the Intergovernmental Panel for Climate Change (IPCC 2006). The difference of the carbon stored in the product and carbon emissions released during production is the net carbon emission. Using the IPCC carbon accounting method, all EWP store more carbon in the wood product than is released during production. Here, the CO₂ uptake for wood and bark is determined by multiplying the product process input dry weight of wood and associated bark by 1.83 using a 50 percent carbon content of wood and bark and the molecular weight of CO₂ at 3.664.

### Continuing need for data

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

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**TABLE 2**

<table>
<thead>
<tr>
<th>ENVIRONMENTAL IMPACT ASSESSMENT RESULTS FOR FOUR EWPS² PRODUCED IN THE PACIFIC NORTHWEST U.S.</th>
<th>Plywood</th>
<th>Glulam</th>
<th>lvl</th>
<th>I-Joists</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Impact Categories</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Global warming potential</td>
<td>kg CO₂ eq.</td>
<td>143</td>
<td>116</td>
<td>218</td>
</tr>
<tr>
<td>Acidification Potential</td>
<td>H⁺ moles eq.</td>
<td>1.60</td>
<td>1.22</td>
<td>2.29</td>
</tr>
<tr>
<td>Eutrophication Potential</td>
<td>kg N eq.</td>
<td>0.06</td>
<td>0.05</td>
<td>0.08</td>
</tr>
<tr>
<td>Ozone depletion Potential</td>
<td>kg CFC-11 eq.</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Smog Potential</td>
<td>kg O₃ eq.</td>
<td>25</td>
<td>25</td>
<td>31</td>
</tr>
<tr>
<td><strong>Energy</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-renewable fossil</td>
<td>MJ</td>
<td>2,440</td>
<td>1,647</td>
<td>3,740</td>
</tr>
<tr>
<td>Non-renewable nuclear</td>
<td>MJ</td>
<td>235</td>
<td>137</td>
<td>318</td>
</tr>
<tr>
<td>Renewable, biomass</td>
<td>MJ</td>
<td>4,610</td>
<td>3,268</td>
<td>4,710</td>
</tr>
<tr>
<td>Renewable (other)</td>
<td>MJ</td>
<td>148</td>
<td>95</td>
<td>196</td>
</tr>
<tr>
<td>Total Energy</td>
<td>MJ</td>
<td>7,433</td>
<td>5,148</td>
<td>8,964</td>
</tr>
<tr>
<td><strong>Other Reporting Requirements</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-renewable materials</td>
<td>kg</td>
<td>5.81</td>
<td>9.37</td>
<td>5.11</td>
</tr>
<tr>
<td>Renewable materials</td>
<td>kg</td>
<td>640</td>
<td>510</td>
<td>862</td>
</tr>
<tr>
<td>Fresh water</td>
<td>L</td>
<td>1060</td>
<td>458</td>
<td>1220</td>
</tr>
<tr>
<td>Solid waste</td>
<td>kg</td>
<td>11.80</td>
<td>8.84</td>
<td>9.15</td>
</tr>
</tbody>
</table>

What is an LCA?

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

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

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

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

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

This image shows the inputs and outputs for a Life Cycle Inventory.
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What is an EPD?

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

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

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

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

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

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

<table>
<thead>
<tr>
<th>LCA Impact Assessment</th>
<th>Total</th>
<th>Forestry Operations</th>
<th>Wood Products Production</th>
</tr>
</thead>
<tbody>
<tr>
<td>Global Warming Potential</td>
<td>143</td>
<td>11</td>
<td>132</td>
</tr>
<tr>
<td>Acidification Potential</td>
<td>1.60</td>
<td>0.15</td>
<td>1.45</td>
</tr>
<tr>
<td>Eutrophication</td>
<td>0.06</td>
<td>0.01</td>
<td>0.05</td>
</tr>
<tr>
<td>Smog</td>
<td>25</td>
<td>5</td>
<td>20</td>
</tr>
<tr>
<td>Total Energy</td>
<td>7,425</td>
<td>165</td>
<td>7,260</td>
</tr>
<tr>
<td>Non-Renewable Resources</td>
<td>6</td>
<td>0.01</td>
<td>6</td>
</tr>
<tr>
<td>Renewable Resources</td>
<td>640</td>
<td>0.00</td>
<td>640</td>
</tr>
<tr>
<td>Water Use</td>
<td>1,061</td>
<td>11</td>
<td>1,050</td>
</tr>
</tbody>
</table>

INGREDIENTS: CARBON

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

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

Rick Nelson has been a committee member for three years. He stepped down from his position last fall and is retiring this spring as Weyerhaeuser’s Kalispell (Mont.) plant manager where he’s worked for the past three years. He worked in various management positions for Plum Creek/Weyerhaeuser for 36 years before that.

Christie Cordova, quality value yield manager for Georgia-Pacific Wood Products in Atlanta, has taken Nelson’s spot on the committee. Cordova also serves on the APA Technical and Quality Advisory Committees and the Industrial Subcommittee for APAs Marketing Advisory Committee.

Dale Leeper, a member of the Advisory Committee since 2010 and PF Technology Manager for member company Hexion, retired from both positions Aug. 31, 2018. Leeper had also served on the APA standing committee that oversees revisions to PS 1 and PS 2. Hexion’s Mark Clark has filled Clark’s vacated seat.

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

EWTA Committee Recommends 2019 Budget

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

EWTA Allocates $80,000 For APA Research

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

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

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

New EWTA Contacts For Member Services, Info Fair

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

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

www.engineeredwood.org  •  emilyh@engineeredwood.org  •  253-448-3754
Emily Houg serves as the new Info Fair manager. Houg has coordinated special events and conferences across the U.S. for government agencies, associations and nonprofits and has held board positions with the Pacific Northwest Chapter of Professional Meeting Convention Association. She can be reached at emilyh@engineeredwood.org.

Also new to EWTA’s team is Sydney Martin, the association’s new member services coordinator. In this role, Martin manages membership directory updates, works with Engineered Wood Journal advertisers, and provides general support to EWTA members, the managing director and Info Fair manager. She can be reached at sydneym@engineeredwood.org.

**Date Set for 2019 EWTA Info Fair**

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

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**EWTA Welcomes 2 New Member Companies**

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

- **Airstar Inc.** of Irvine, Calif.; a manufacturer of quality control systems for the forest products industry. Its non-contact system can test all engineered wood products including plywood, LVL, OSB and glulam. President Jan Strycek can be reached at jan@airstar1.com

- **Nextwire**, of Star City, Ark.; with more than 50 years of manufacturing and engineering experience in woven fabrics. Nextwire CleanSheet II caul and press screens offer extended life resulting in lower cost per board foot. Vice-president of Sales Charlie Brown can be reached at cbrown@next-wire.com

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**Dürr Acquires Division Of Babcock & Wilcox**

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

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

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

**Dieffenbacher Wins Award For Knife Ring Flaker**

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

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

**Walker Environmental Opens Calgary Office**

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

**Wanhua Names Site of New Manufacturing Base**

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

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

**Altec Installs Scanner For New Client**

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

The Altec team reused the existing charger PLC and IO components, in addition to providing the client with a new XY laser scanning system and solutions PC.
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Raute Appoints Järvinen as New CFO
Raute recently announced that it has appointed Tarja Järvinen as group vice president, CFO of Raute Group. She will also be member of Raute Group’s executive board, reporting to president and CEO Tapani Kiiski. Järvinen assumed the position on February 1.

Willamette Valley Co. Names New Business Manager
Robert Pitts has been named the business manager for Willamette Valley Co.’s North American Wood Products business. According to a press release from the company, Pitts has been instrumental in guiding Willamette Valley Co.’s North American sales efforts in sealers and primers for engineered wood for nearly 20 years.

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

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UPCOMING

2019

APRIL

3-5  IWPA 63rd World of Wood Annual Convention, Tucson, Ariz., www.iwpawood.org

23-25  American Forest Resource Council annual meeting, Stevenson, Wash., amforest.org

MAY

5-7  American Wood Protection Association annual meeting, Orlando, Fla., www.awpa.com

5-7  Composite Panel Association Spring Meeting, Naples, Fla., www.compositepanel.org


12-14  Decorative Hardwoods Association spring conference, Santa Rosa, Calif., www.decorativehardwoods.org

20-21  Bio Fiber Polymer Composites Symposium, Madison, Wis., forestprod.org/woodcomposites


JUNE

6-8  American Institute of Architects Conference on Architecture 2019, Las Vegas, Nev., conferenceonarchitecture.com

25-28  Forest Products Society 73rd International Convention, Atlanta, Ga., www.forestprod.org

26-28  Southern Forest Products Association’s 2019 Forest Products Machinery and Equipment Expo, Atlanta, Ga., sfpaexpo.com

JULY

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

SEPTEMBER

4-6  Bioenergy 2019, Jyväskylä, Finland, www.bioenergiamesssut.fi

9-12  Furniture China 2019, Shanghai, China, www.furniture-china.cn

17-19  World Forestry Center’s “Who Will Own the Forest?” conference, Portland, Ore., www.wwotf.org

24-27  Nondestructive Testing and Evaluation of Wood Symposium, Freiburg, Baden-Württemberg, Germany, ndtesymposium.org

OCTOBER

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

NOVEMBER


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