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What is Your Business Projection for The New Year?
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ENGINEERED WOOD JOURNAL • SPRING 2016

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About the Cover:
Houri Sharifinay Dizboni is a current graduate student in Virginia Tech’s Department of Sustainable Biomaterials. She is preparing to test a CLT sample in a bending test. Read more about the efforts universities are making to attract more students to their wood products programs on page 10.

Photo by Jim Shoup/Virginia Tech

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In this issue…

When I was going through the notes I took during the general session at the APA Annual Meeting in Coeur d’Alene, Idaho, last October, a certain statistic caught my eye. Surely I had written it down wrong: Of 22,000 people who applied for 6,200 freshman seats at Virginia Tech in 2015, only five specifically sought to join the college’s Department of Sustainable Biomaterials. Could it be true that so few students would seek to learn about an industry that so many of us know to be interesting, rewarding and lucrative?

I emailed the source of the quote, Dr. Paul Winistorfer, dean of Virginia Tech’s College of Natural Resources and Environment, who was one of two professors who spoke at the general session (and later that day at the “University Programs” roundtable discussion). “Did I write that down correctly?” I asked him.

It turns out I had. According to Winistorfer, nearly all of the students in his college’s wood products programs did not enter as freshman, but rather transferred into a wood-related program later on in their college careers from some other major. In his opinion, careers in the wood industry are not highly touted at the high school level.

“It is not a known discipline in high schools and awareness of the career opportunities is not readily evident to the high schools, or counselors,” said Winistorfer.

The general session discussion of the state of wood products programs at universities was an interesting one, as was the discussion at the roundtable session that followed. We decided to continue the conversation in this issue of the Engineered Wood Journal, starting on page 10, with a Q & A with the two professors who spoke at the meeting (as well as a third slated to speak, but unable to attend due to illness). We also reached out to several graduates of wood programs at universities throughout the U.S. and Canada to find where their education has taken them. One of my favorite quotes comes from Reid Foerter, a 23-year-old brokerage sales representative for Tolko Industries Ltd., who graduated from the University of British Columbia’s Wood Products Processing program with a bachelor of science in Wood Products Processing last year.

“I always tell people, when asked about the industry, that from the outside looking in, the wood products industry is tiny and appears to have minimal potential,” said Foerter, “but once you’re in it you see how many different possibilities there truly are, and it’s almost unbelievable.”

Celebrating 70

Thanks to everyone who attended EWTA’s Info Fair this past fall and helped us celebrate a milestone: the association’s 70th birthday. Throughout the decades, EWTA has grown in scope and size, from its beginnings as a plywood research association to a supporter of industry activity to a networking group supporting industry advancement and information transfer. Today, with an all-time high of 107 members, EWTA is poised for even more growth. On page 44, we capture some of the highlights of the association’s success in a photo collage.

Be sure to mark your calendars for the next Info Fair: November 5-7, 2016, at the Hyatt Regency Coconut Point Resort and Spa in Bonita Springs, Fla. More information — and registration instructions — can be found at engineeredwood.org.
PELICE Scheduled For April 7-8

The Panel and Engineered Lumber International Conference and Expo (PELICE) show is scheduled for April 7-8 in Atlanta. The popular biennial event is attended by many members of EWTA, APA and the engineered wood industry. The expo follows the Wood Bioenergy Conference and expo April 5-6. Both events will be held at the Omni Hotel at CNN Center in Atlanta.

PELICE offers marketing forecasts and technical presentations on veneer, plywood, OSB, MDF, particleboard, and other engineered wood products. Visit the event website at pelice-expo.com for more information.

American Wood Council Elects New Chairman

The American Wood Council recently announced the election of Boise Cascade CEO Tom Corrick as the new AWC chairman for a one-year term. Andrew Miller, CEO of Stimson Lumber, was elected the first vice-chairman and Allyn Ford, president and CEO of Roseburg Forest Products, was elected as second vice-chairman. Sierra Pacific President George Emmerson will serve as the immediate past chairman.

Weyerhaeuser Company, Plum Creek Merge

Weyerhaeuser Company has purchased Plum Creek for $8.4 billion, the companies announced late last year, creating the world’s largest timber, land and forest products company with more than 13 million acres of the most productive and diverse timberland in the U.S., according to a press release. The combined company will have a market capitalization of $23 billion based on current prices, ranking it sixth among publicly traded companies based in Washington state.

Doyle R. Simons, president and chief executive officer of Weyerhaeuser, will serve as president and CEO of the combined company. Rick R. Holley, Plum Creek’s CEO, will serve as non-executive chairman of Weyerhaeuser’s board, which will be expanded to 13 directors. The agreement was unanimously approved by the boards of directors of both companies.

GP Sells Engineered Lumber Business to Boise Cascade

Georgia-Pacific LLC announced late last year that it has sold its engineered lumber operations to Boise Cascade for $215 million, including working capital. The sale includes the engineered lumber operations located at Thorsby, Ala., (approximately 230 employees) and Roxboro, N.C., (approximately 40 employees), along with a commercial sales and technical team.
In Memoriam

Robert George Harrison

Robert George Harrison, 90, died of natural causes on August 27, 2015. He was at his home in Eugene, Ore., surrounded by his family. Mr. Harrison acquired the Willamette Valley Paper Company in 1952 with a partner, then subsequently became sole owner, renaming it The Willamette Valley Company. He would go on to serve as chairman of the board until his death. Mr. Harrison was a graduate of Grant High School and the University of Oregon, graduating from U of O in 1950 with a bachelor of science in Business Administration. In between high school and college, Mr. Harrison served in World War II as a member of the V-T88 squadron, which primarily flew off the Navy carrier USS Yorktown in the South Pacific. He flew 114 documented combat missions for which he was awarded numerous medals, including the Air Medal, the Bronze and Gold Stars and two Distinguished Flying Crosses. Mr. Harrison is survived by his wife, Dixie, their five children, eleven grandchildren, and two great grandchildren.

Hardie Eubanks

Hardie Eubanks, retired APA Quality Services Manager, died August 15, 2015, in Bonners Ferry, Idaho. He was 61. Mr. Eubanks joined APA in 1978 as a Quality Services supervisor following a two-year stint as a phenol/urea-formaldehyde operator with Chembond Corp. He left APA to work as a Quality Assurance Supervisor at Georgia-Pacific Corporation's Crossett, Ark., plywood mill, but rejoined the association in 1985 as a quality auditor. He became trademark and training coordinator in 1999 and quality manager in 2003. He retired in September, 2012.
For years, the forest products industry has struggled with finding ways to attract young people to the profession. Colleges and universities across the country have seen interest in wood product-related programs wane in recent years, with prospective students often lured instead by the offerings of the technology sector. Case in point: 22,000 people applied for 6,200 freshmen seats at Virginia Tech in 2015, but only five sought to join the college’s Department of Sustainable Biomaterials, according to Dr. Paul Winistorfer, dean of Virginia Tech’s College of Natural Resources and Environment. “Almost without question, the students in our wood products programs

Universities Find Ways to Attract Students to Wood Products Programs  
by Sheila Cain

THE PANELISTS

Dr. Thomas Maness  
Oregon State University  
Cheryl Ramberg-Ford and Alyn C. Ford Dean of the College of Forestry; Director of the Oregon Forest Research Laboratory

Dr. Paul Winistorfer  
Virginia Tech  
Dean of the College of Natural Resources and Environment

Dr. John Innes  
University of British Columbia  
Dean of the Faculty of Forestry

Virginia Tech Department of Sustainable Biomaterials students take part in the Wood Enterprise Institute, a nine-month experiential program in which they conceive a product, engineer/manufacture, sell, distribute and summarize business analytics.
To attract top students we must 1) clearly demonstrate a rewarding career path, and 2) get the word out there to all prospective students. The best way for us to accomplish both goals is to build strong partnerships with employers. Employers can offer scholarships and internships, give guest lectures, and sponsor career information nights. Employers can help us recruit local high schoolers in the home community — students who will have the highest probability of returning to the community. We have done this at OSU and it has paid big dividends, but we are just starting to see success. Employers need to buy in to the fact that they must become “education partners” if their companies are going to succeed in the future. Universities have to do their part by being a good partner.

**Dr. Paul Winistorfer, Virginia Tech:**
Young people, unless there is a family history in our industry, simply are not aware of the industry at large and don’t recognize it as a destination when headed to the university to study. This is not a new problem for us – we’ve lived it for decades. Admission to higher education today is more competitive than any time in the past and with the nationwide push and recognition of STEM degrees (science, technology, engineering, and math), we could fill our institutions with students interested in all of the engineering disciplines. That is not a bad thing. We need engineers, and lots of them. But we also need wood scientists, forest products marketing, sales, manufacturing, design, and a host of other skill sets that high school students don’t recognize as being a part of our industry. We have success in attracting students to the industry/disciplines once they are on our campus and have the opportunity to explore the wealth of opportunities that exist on any major university campus. We need more internships, summer op-
opportunities, mentoring, and interaction with the industry to better prepare our students for a successful career in the industry. We are making progress following extensive curriculum revision in the past several years. Treating the root cause is always harder than treating the symptom.

Dr. John Innes, UBC:

This very much depends upon what sort of students you are referring to. We don't have any real problems recruiting students, and are more concerned about our capacity to teach all those who are interested in a career in the industry. We have an award-winning program in Wood Products Processing that continues to attract very high caliber students, and there are also significant numbers of international students applying to the program. As a result, we have been increasing our teaching capacity, particularly through the recruitment of extra instructors who can take on some of the more routine instruction. They can also ensure that the teacher-to-student ratio remains appropriate; something that is very important from a workplace safety point of view. We have a vibrant co-op program that ensures that students are fully prepared for a career in the industry. The challenges that we face in our program largely revolve around the fact that we have been very successful in recruiting increasing numbers of students, particularly international students. Classroom sizes have grown, which has had a very real impact on the way that we teach lab-based courses, where safety is a particular concern. Additionally, the increasing numbers of international students has introduced a number of challenges related to cultural integration and communications skills. Finally, while we have historically been able to place 100 percent of our co-op students, the reality is that the demand for co-op jobs now far exceeds the supply of available industry placements, and further efforts and resources are required to foster relationships with potential co-op employers.

Engineered Wood Journal:

Some universities have been rebranding their programs to attract new talent and address emerging opportunities for sustainable biomaterials. What does this look like at your university?

TM:

We changed the name of our college from the “College of Forestry” to “The College of Forestry.” We believe that our profession demands dedicated professional schools, and we aspire to be the best in the world at what we do. We have made the decision to focus on the Pacific Rim, and we have made strategic investments to create opportunities for students and faculty to study or work in this region.

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WOOD PROGRAM GRADUATE

NAME: Zachary Matthews
AGE: 24
UNIVERSITY: University of Idaho/Forest Products & Wood Science program, B.S. in Renewable Materials
GRADUATION YEAR: 2015
EMPLOYER AND JOB TITLE: Boise Cascade, Industrial Engineer
DESCRIPTION OF YOUR JOB: As an industrial engineer, I study every aspect of the manufacturing process in order to find areas where improvements can be made to save the company money and improve our process.
WHY YOU WERE DRAWN TO THE WOOD PRODUCTS INDUSTRY: The forest products industry was appealing to me because of my love for the outdoors. Being an avid sportsman, I enjoy having the opportunity to have a career that keeps me close to nature.
To compete in the global marketplace we must first understand the global marketplace.

We believe that rebranding must be done with care. Our goal is not just to attract more students, our focus is creating great careers for graduates and great employees for employers. We believe that if we are successful in meeting these goals we will be able to attract sufficient numbers of students to sustain our college. At OSU, we receive a great deal of financial support from alumni and employers. Without this support I believe we would not be able to maintain this professional focus.

PW:
At Virginia Tech we took an in-depth look at our programs, curriculum, naming of degrees and majors, naming of departments, and even the college name. We have re-branded following an 18-month comprehensive project to examine who we are, what we do, and what opportunities there are for students in a

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Bob Call, General Manager

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future career path. I will declare success on all fronts. If you can’t reach ‘em, you can’t teach ‘em. Naming and brand are important to our students. Course titles, course content and the sequence of the curriculum is important to our students and employers. Following re-branding and curriculum changes and introduction of new curricula, enrollment in our college has grown nearly 60 percent in the past five years. And because we have an ethical responsibility to be truthful that there are career opportunities in these disciplines, we’ve added a career fair in our college and welcome industry participation. We are seeing real success in linking students to career opportunities with agency and private sector partners.

**Ji:**

We have not felt the need to re-brand our Wood Products Processing program, since demand for it is strong and continues to increase. We [have introduced] a new Master’s program called the Master of Engineering Leadership in Green Bio-products. This is a collaborative program between our Sauder School of Business, the Faculty of Forestry and the Faculty of Applied Sciences. The program combines training in business skills with the development of a comprehensive understanding of the chemistry and anatomy of the tree and its role as one of the most prolific forms of biomass. Students study lignocellulosic separation chemistry and the production pathways for biocomposites and fuels. They also examine the spectrum of potential bio-products, including biopolymers, biorefining, bioenergy and public policy for the bio-products sector.

Both the Department of Wood Science (the administrative unit that houses the undergraduate program) and the Faculty of Forestry have discussed re-branding on several occasions, largely because most forestry institutions across North America seem to have followed this trajectory. However, given that our enrollments are steadily increasing, we see no need for re-branding at this time. Our overall vision is to go well beyond a simple image exercise of giving ourselves a new name, but rather to challenge and change the public’s conception of forestry/wood science. We feel that we have been successful in doing this by showcasing our diversity in research activities and in teaching programs. The launch of the Faculty of Forestry’s new undergraduate program in Urban Forestry is a prime example of this.

**Engineered Wood Journal:**

How do you envision universities working with industry in the building material research arena? How are you working with individual manufacturers, and what opportunities do you see for increased cooperative research?
several decades on cooperative projects. Our higher education institutions have a long history of collaborative research with the building materials industry. Sometimes the criticism is that our work takes too long, or it is not a contemporary problem-solving issue. While faculty do research, they also teach, sometimes multiple classes each semester, and they have other obligations to the university. One of our primary goals is education of our students, both undergraduate and graduate students. Education of the students takes time, it takes real world experiences, real world problems, and real world failure. We are, after all, training the future professionals of the building materials research profession. There is a very high expectation that faculty will undertake research and because of that expectation, we welcome with open arms as many research opportunities with the industry as possible. We can be organized in research cooperatives, where we work openly with multiple industrial partners on research projects. We can do confidential research with the industry. We can protect intellectual property of the industry in our working agreements. We can work with the industry in almost any fashion of agreement you can imagine. The wood industry is not known as a sector that makes big investments in R&D in comparison to other sectors. Partnering with university faculty is one way to leverage scarce resources whereby both 

**TM:**

We believe that building materials are Oregon’s competitive strength, so building materials and buildings are the focus of our program. We are investing in education and research programs to help fuel the sustainable building industry of the future. We have created a new, innovative partnership with University of Oregon’s Architecture program to connect research, design and manufacturing of buildings made from sustainably produced wood products. Our college is also strongly connected to the rural communities of Oregon, and we believe that the production of modular buildings made of wood can help bring family wage paying jobs to rural communities. We are working very closely with manufacturers, architects and builders to facilitate the development of this new industry and this work is paying off. Currently we are helping with plant design, certification and testing, material science and marketing. As our new UO partnership takes off, we will be working more closely with designers and architects.

**PW:**

Universities are a wealth of intellectual talent and curiosity. Both our faculty and our students have much to offer the building materials research arena. As a faculty member I personally worked with the composite panel industry for

**WOOD PROGRAM GRADUATE**

NAME: Reid Foerter  
AGE: 23  
UNIVERSITY: University of British Columbia, Wood Products Processing program, B.S. in Wood Products Processing  
GRADUATION YEAR: 2015  
EMPLOYER AND JOB TITLE: Tolko Industries Ltd., Brokerage Sales Representative  
DESCRIPTION OF YOUR JOB: My day-to-day activities are focused primarily on building relationships with new contacts in hopes of creating successful business partnerships for both myself and my customers. I spend a large portion of my time analyzing market data, researching potential markets, and contacting different companies to determine if there is value to be added. After speaking with the customers directly, it is my job to find what they need to run their business, and supply the products for a competitive price, in a timely manner.

WHY YOU WERE DRAWN TO THE WOOD PRODUCTS INDUSTRY: Before going into the Wood Products Processing Program at UBC I knew very little about this industry, but my time in the program and co-op work experience showed me the range of opportunities there are to be had. I always tell people, when asked about the industry, that from the outside looking in, the wood products industry is tiny and appears to have minimal potential, but once you're in it you see how many different possibilities there truly are, and it's almost unbelievable. Having been in here for just under a year now, I've come to realize that this is one of the few remaining industries where your word means something.
commercialize. Developing products or processes to support internal clients in industry clients to understand their needs involves working with many external in-
creases for these markets. I am part of a team that is responsible for analyzing the market and the financial opportu-
nity and developing business plans for a range of ideas and concepts. My job involves working with many external in-
dustry clients to understand their needs as well as supporting internal clients in developing products or processes to commercialize.

WHY YOU WERE DRAWN TO THE WOOD PRODUCTS INDUSTRY: Growing up, I was always building different projects out of wood and had the idea that I wanted to pursue an engineering degree. When it came time to research different university programs, the UBC WPP program appeared to integrate wood manufacturing, engineering and business. After being exposed to the wood products industry through the WPP program and co-op jobs, I found the wood products industry provides a very interesting working environment with lots of opportunities.

NAME: Ben Romanichych
AGE: 23
UNIVERSITY: University of British Columbia, Wood Products Processing program
GRADUATION YEAR: 2015
EMPLOYER AND JOB TITLE: FPInnovations, Business Analyst
DESCRIPTION OF YOUR JOB: Our team works with clients to understand the markets for wood construction products and to develop new products and processes for these markets. I am part of a team that is responsible for analyzing the market and the financial opportu-
nity and developing business plans for a range of ideas and concepts. My job involves working with many external in-
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WOOD PROGRAM GRADUATE
Class of 2015

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Our Centre for Advanced Wood Processing was established in 1996 to address the need for advanced technical training and managerial training for the value-added wood products manufacturing sector. The Centre works very closely with individual manufacturers, and a large amount of co-operative research and extension is undertaken. For example, the Centre provides assistance to individual companies in the forms of product development, management skills training, quality assurance programs, and machine skills training. Students from the Wood Products Processing program can register for the co-op work placements program, and employers of these students are in regular contact with the faculty and the Centre. A considerable amount of research is being undertaken in building materials, with the Timber Engineering and Applied Mechanics Laboratory, as well as the School of Architecture being particularly active. Some of this work is in cooperation with FPInnovations (a Canadian non-profit member organization which carries out scientific research and technology transfer for the Canadian forest industry), and close links to this industry-based organization have been established.

Engineered Wood Journal:
One of APA’s strategic goals is to “Protect and Grow New Markets.” From a university research perspective, how do you see yourself supporting this goal?

TM:
Competing in the six-story-and-up building industry will require that you have a certified sustainable product. This is because our competitive advantage over concrete and steel is our environmental performance, not cost. Therefore we must have continuous improvement of our environmental and economic per-
formance all along the supply chain, from tree genetics to a completed building. It isn’t about making sustainable building materials, it is about providing sustainable buildings. For many manufacturers this will necessitate a entirely new way of thinking and cooperation along the supply chain. Wood products companies that have ventured into the window and door industry have experienced a part of this, and have found that you have to be on top of your game to compete.

Along with our new partnership, our college conducts research all along the supply chain. It starts with building design, and eventually that leads to forest management — not the other way around. As an industry we are very early in the innovation cycle, and research is absolutely essential to creating and holding these new markets. We are building a new 20,000-sq-ft research laboratory and hiring new researchers to support this vision. We will conduct fundamental research and applied research; protect or share intellectual property; and provide direct service to implement the new technologies and ideas.

PW:
During our college re-branding exercise, we held to the premise that we are a science-based organization. Our new brand is ‘advancing the science of sustainability.’ We need more science, more data, and more promotion of the sustainability aspects of our industry and the products we make. Most of this comes from research. I say it all the time: We in the forestry and wood products industry can save the world from itself! We need more promotional information that is understandable to the public about energy efficiency, life-cycle analysis, and human health aspects of using and living in wood structures with wood furnishings. We need market research, and we have the future consumers of the world sitting in our university classrooms (literally and virtually). We need support from the industry for research projects that will help us position the industry to protect and grow new markets. I also believe we need a well-organized national effort around strategic themes of forest sustainability, managing our forests...
and making products from renewable sources. Education is the key. We are not here to brainwash our students. We are here to help them think critically about material choice decisions and the impact of these decisions on global sustainability. I think we can be very involved with the industry in protecting and growing new markets.

Ji:
From a university research perspective, there are some research opportunities in investigating new markets, and also in how one might protect new markets from unfair competition or unjustified trade barriers. The Department of Wood Science has a long tradition of conducting marketing research within the forest products domain. However, over time, this line of inquiry has evolved into the exploration of broader, more theoretically-based questions revolving around sustainable business management practices. To a certain extent, this market research is still being conducted (often in partnership with institutions like FPInnovations and the Canadian Forest Service). However, this research is often proprietary, and might arguably be done better by consultants or by the companies operating in those new markets. Protection of markets is an interesting issue: what are you protecting new markets from? Competition? Universities do get involved in proprietary research, but it is generally at a cost to other activities, such as teaching and publishing research. Lastly, it is worth noting that many of the more technically oriented research projects conducted in the Department of Wood Science have built in receptor capacity strategies, which is to say that much of the knowledge created is mobilized to appropriate end-user groups, increasing the likelihood of market adoption and business success.

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

NAME: Chantelle Grills
AGE: 25
UNIVERSITY: University of British Columbia, Wood Products Processing program
GRADUATION YEAR: 2013
EMPLOYER AND JOB TITLE: Independent contractor for CutMyTimber Inc. and Gehloff Consulting Inc.
DESCRIPTION OF YOUR JOB: I primarily work with Cadwork, a CAD/CAM design software, to create 3D models and 2D drawings of timber structures and steel components. The timber and steel components are then fabricated using CNC equipment. Other tasks include project take-offs and estimates, and project management services.

WHY YOU WERE DRAWN TO THE WOOD PRODUCTS INDUSTRY: I was drawn to the WPP program, as it combined my interests in engineering, science, and sustainability. Entering the program, I had a keen interest in structural engineering and architecture, so I was able to focus my studies on the use of wood in construction through elective courses and co-op job placements.
In response to the increasing demand to use mass timber products in sustainable building projects combined with the need to bring innovative materials to the U.S. market, the Oregon State University College of Forestry, Oregon State University College of Engineering, and University of Oregon College of Architecture and Allied Arts have launched the National Center of Excellence for Advanced Wood Products Manufacturing and Design.

The center builds on existing research and educational programs at each of the three colleges, and will bring an integrated approach to enhancing and supporting the use of engineered wood building materials and components — such as cross laminated timber — in the design, engineering, and construction of multi-story commercial buildings in U.S. and global markets.

Priorities for the program’s research of sustainable wood products include:
- product and building materials testing;
- code compliance and validation;
- building certification and life cycle documentation;
- new building products incubation;
- new applications of current technology; and
- manufacturing and materials innovation

To accommodate the dedicated research and training programs associated with the center, OSU recently announced an initiative to build a $65 million state-of-the-art forest science complex. Scheduled to be completed in the spring of 2018, the Oregon Forest Science Complex encompasses construction of a pair of campus facilities that showcase innovative uses of wood in building design and allows the College of Forestry to help meet the world’s growing demand for energy efficient, tall buildings made from sustainable building products.

Additional Lab Space

Included in the plans is a new advanced wood products laboratory to add to existing materials testing laboratory space. The facility, made possible by a $6 million gift from Sierra Pacific Industries (SPI), will house computer-controlled and robotic manufacturing systems,

The future Oregon Forest Science Complex on the Oregon State University campus will include an advanced wood products laboratory to add to existing materials testing laboratory space. Shown here is the future complex’s atrium. The lab was made possible by a donation from Sierra Pacific Industries, and it will be named in honor of the forest product company’s founder, Red Emmerson.
OSU’s new $65 million forest science complex is scheduled for completion in the spring of 2018.

plus a pilot plant designed as a learning laboratory for students and continuing education. California-based SPI is a third-generation, family-owned forest products company founded by A. A. “Red” Emmerson and his father, R. H. “Curly” Emmerson. In recognition of SPI’s investment, the laboratory will be named in Red Emmerson’s honor.

Designed by Vancouver-based architect Michael Green, the buildings will serve as a showcase for engineered wood products. While the facilities will be located on the OSU campus, University of Oregon faculty, staff, and students will also use them as part of the partnership between the schools.

Although construction of the complex has yet to begin, the center has already started a number of initiatives and research programs focused on revitalizing the forest products industry across the Pacific Northwest. With a search for a director for the center ongoing, the center was recently awarded a federally funded grant of nearly $450,000 by the Economic Development Administration to establish an independent peer-review program to assess and compile performance information relating to mass timber construction for integration into Oregon’s building code standards.

In addition, the College, as part of its Institute for Working Forest Landscapes (IWFL) program, has awarded nearly $550,000 in funding to four research projects to support the mission and research objectives of the center. Research projects funded by the College and IWFL will explore the behavior of CLT diaphragm panel-to-panel connections with self-tapping screws; fire performance of douglas-fir CLT wall and floor assemblies; structural health monitoring and post-occupancy performance of mass-timber buildings; and CLT fastener solutions for tall-wood buildings.

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Primed for CLT Research
As a number of high-profile projects across the globe have demonstrated its use in tall buildings, Oregon is perfectly positioned for private investment in the manufacturing and fabrication of CLT and other new products as an expansion of the state’s existing wood products sector. To do so could create new opportunities for family wage jobs in rural, timber-dependent communities where they are needed most. Oregon State has been actively engaged in education and research aimed at supporting the domestic production of structural CLT and mass timber products in Oregon. This effort resulted from a collaboration with Oregon-based company Riddle Laminitors (DR Johnson Lumber Co.), which has launched the first structural CLT production line in the U.S.

Through research and the education of U.S. architects and engineers, the National Center for Advanced Wood Products Manufacturing and Design hopes to drive the innovation to a level necessary to establish Oregon as a leader in wood building design. A previous version of this article appeared in the March 2015 issue of Civil and Structural Engineer.

Geoffrey Huntington is the director of Strategic Initiatives for Oregon State University. He can be contacted at geoff.huntington@oregonstate.edu.

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bonds that last. advancements that work."
In both the U.S. and Canada, multifamily structures are playing a larger role in meeting the demand for new housing. Since the average size of a multifamily unit is less than half that of a new single-family home, the wood products industry is experiencing a slower recovery in demand than if the single-family share of starts was similar to that of 10 years ago. A long-term perspective of the role multifamily construction has played in meeting the demand for new housing and the efforts of APA to support wood products usage is presented in this article.

**Multifamily History**

While multifamily starts are on the rise, they are not as high as they have been historically. For those whose experience in the housing industry dates back to just the last decade, the notion that multifamily starts could be near 400,000 units and accounting for over a third of the housing starts in the U.S. may seem exceptional. However, the data in Figure 1 show the recent experience is not out of the ordinary.

From 1971 to 1973, multifamily starts averaged close to 950,000 units per year and accounted for over 44 percent of the housing starts in those years. This level of demand for new multifamily units was created by the first wave of the Baby Boomers reaching adulthood, leaving home, and finding an apartment to rent. Following the severe recession of the early 1980s, multifamily construction ramped up, due in part to a change in tax laws that enhanced the returns to investing in rental properties and the fraudulent behavior of some developers and savings and loan executives that led to an overbuild in apartments and condominiums. This ultimately led to the savings and loan crisis of the early 1990s, and multifamily construction plunged to 170,000 units per year for the 1991-94 time period in order to work off the excess.
From 1996 to 2005, multifamily starts were relatively stable, averaging 345,000 units per year. Multifamily starts plunged during the Great Recession, averaging less than 120,000 units per year in 2009-10, driven by the collapse in household growth. Since then, multifamily starts have been on the rise, and in 2015 totaled 396,000 units. This marks a 26-year high, but is nowhere close to being out of the ordinary when looking at the history since 1970.

Surging Rental Demand
The construction of multifamily units can be for either rental or ownership purposes, such as in a condominium complex. The Census Bureau began tracking the intended purpose of new multifamily units in 1974 and this data is shown in Figure 2. Rental properties have always accounted for over 50 percent of new multifamily construction. What is unique about what has taken place since 2009, though, is that over 90 percent of the multifamily starts are for rental purposes. This is being driven by the strength in demand for rental housing, due to the steady decline in the homeownership rate that has been in place since 2006.

Smaller Units
While the average size of new single-family homes has been on the rise, the same cannot be said for multifamily units. As shown in Figure 3, the average size of a new single-family home has risen by 930 square feet, or 53 percent, since 1980. In contrast, the average size of a new multifamily unit put-in-place since 1980 has risen 180 square feet, or 18 percent. In fact, the average size of a new multifamily unit built peaked in the 2005-07 period when condominiums accounted for about 45 percent of multifamily starts (as condominiums tend to be larger than rental units.)

More Units per Building
Another factor to consider in understanding wood products usage in multifamily construction is the number of units per building. As shown in Figure 4, the number of multifamily units started in buildings with 20 or more units in 2015 will be near 325,000. This is 125,000 greater than the peak reached in 2008. This shift towards greater concentration of multifamily units in a single building is being driven by increased activity in the urban core, especially in the Northeast and Pacific Coast states.
Biggest Gains in West and Northeast

Multifamily units are accounting for a greater share of starts across the nation, but the most noticeable shift has occurred in the West, largely in the Pacific Coast states, and the Northeast. As shown in Figure 5, the number of multifamily starts in the Northeast and West in 2015 exceed the peaks in the previous decade by 19 percent and 71 percent, respectively. The primary force driving the strong demand for new multifamily units in these regions is the severe affordability challenge created by the surge in home prices. For example, based on the Case-Shiller Home Price Index, home prices in the Bay Area have increased 73 percent since March 2012, while the national index has increased 29 percent.

Multifamily Units in Canada

Similar to the U.S., multifamily units are playing a greater role in meeting the demand for new housing in Canada. This trend is not new to the recovery since the end of the recession, as illustrated in Figure 6. Multifamily starts in 2015 totaled 97,400 units, a record high, and accounted for 49 percent of all housing starts in 2015.

In contrast to the U.S., the surge in multifamily construction has been driven by multifamily units providing a less expensive ownership option, as the homeownership rate in Canada has not fallen like in the U.S. Whereas less than 10 percent of the multifamily starts in the U.S. have been built for ownership purposes since the recovery started, over 60 percent of the demand for new multifamily units in Canada has been driven by this factor. (See Figure 7 on page 26.) This is especially true in Montreal, Toronto and Vancouver, where multifamily starts accounted for 84 percent, 61 percent and 63 percent of the starts in 2015, respectively.

The homeownership rate in Canada has not declined like that in the U.S. for the following reasons:

- Canada avoided a surge in foreclosures, as its recession at the end of the previous decade was less severe than in the U.S.
- Canada did not experience a home price bubble due to a more disciplined mortgage banking system.
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Looking to the Future

Multifamily construction is likely to continue to play a more meaningful role in meeting the demand for new housing than in the prior decade, with the prospects of higher mortgage rates down the road. Wood products of all types will continue to play a critical role in the multifamily construction process. As shown in Figure 8, 85 percent of the multifamily buildings completed in the U.S. in 2014 had three floors or less. Based on surveys conducted by the Home Innovation Research Labs, the market share of structural panels, OSB and plywood, used in exterior wall sheathing in buildings with four floors or less has averaged 81 percent since 2006.

APA – The Engineered Wood Association is engaged in efforts to support greater use of its members’ products in multifamily construction. These efforts include code changes to allow light-frame construction in taller buildings, promoting the use of engineered wood framing materials such as glulam, I-joists, and laminated veneer lumber, educating builders on advanced framing techniques and use of thicker panels in floors for improved acoustics.

These efforts will pay dividends as developers and builders look for cost-competitive construction systems as they work to meet the demands for affordable rental housing in the future. 

Joe Elling is the director of Market Research for APA — The Engineered Wood Association. He can be reached at joe.elling@apawood.org. He wrote an article that discussed the forces driving the drop in the rate of homeownership in an article entitled, “The History of Homeownership” published in the Spring 2015 issue of the Engineered Wood Journal.
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STAYING THE COURSE
Business Outlook Survey Shows Steady Success, Guarded Optimism
by Sheila Cain

The old idiom, “Slow and steady wins the race” seems to hold true for Engineered Wood Technology Association members. The results gathered by EWTA’s annual Business Outlook Survey (members were polled in January of this year) indicate little change in members’ opinions on their companies’ growth, employment levels and other business related issues as compared to the previous year. Luckily, responses one year ago were generally optimistic.

The outlook isn’t as rosy as it was just a few years ago, however. This year, we take a look at member responses from 2011 to the present, compiling them in graphs to show trends. Members seemed to have had the highest hopes in 2013, about the time the economy started to get some legs. Optimism has dropped slightly since then.

The 2016 Business Outlook Survey shows 68 percent of respondents saw their company’s wood-related business improve in 2015 over the previous year. This number is nearly identical to that of the previous year (69 percent), although five percent indicated that they saw their business worsen in 2015 (no members said this for 2014). Twenty-six percent of those who responded said their wood-related business stayed the same in 2015.

Members are still remaining hopeful. Sixty-three percent said they felt that business will improve in 2016 over 2015. Thirty-two percent predicted it will remain the same, and only five percent thought it will worsen.

This year’s survey shows that the change in member companies’ wood-related employment was nearly the same in 2015 as it was in 2014: both this year and last year, 42 percent of respondents said employment levels increased. Fifty-eight percent said levels stayed the same (as compared with 54 percent last year), and none indicated that wood-related business employment levels decreased (four percent in the previous year’s survey indicated a decrease).

Looking into 2016, 58 percent expect their employment levels to stay the same (compared to 50 percent who said the same last year). Thirty-nine percent of responding members expect employment levels to increase in 2016 (42 percent indicated they thought levels would rise in 2015). Only three percent feel levels will decrease in 2016. Last year, members were slightly less optimistic, with eight percent expecting levels to drop.

The web-based survey was sent to all EWTA members last year. It posed five questions relating to wood-product businesses’ employment levels and overall business health. Fifty-three percent of respondents were in the equipment/tooling category, 39 percent were in the materials/supplies category and eight percent were in the services/consulting category. Seventy-one percent of the survey respondents were from the U.S., 16 percent were from Canada and 13 percent were headquartered offshore.
How important are the following for recovery:

<table>
<thead>
<tr>
<th></th>
<th>Very Important</th>
<th>Important</th>
<th>Unimportant</th>
</tr>
</thead>
<tbody>
<tr>
<td>State of the U.S. housing market</td>
<td>79%</td>
<td>18%</td>
<td>3%</td>
</tr>
<tr>
<td>Government regulation</td>
<td>29%</td>
<td>50%</td>
<td>21%</td>
</tr>
<tr>
<td>Government economic policy</td>
<td>29%</td>
<td>53%</td>
<td>18%</td>
</tr>
<tr>
<td>Marketplace competition</td>
<td>53%</td>
<td>45%</td>
<td>2%</td>
</tr>
<tr>
<td>Raw material prices or supply</td>
<td>32%</td>
<td>55%</td>
<td>13%</td>
</tr>
<tr>
<td>Transportation costs</td>
<td>19%</td>
<td>55%</td>
<td>26%</td>
</tr>
<tr>
<td>International exchange rates/trade policies</td>
<td>45%</td>
<td>39%</td>
<td>16%</td>
</tr>
<tr>
<td>Labor issues</td>
<td>11%</td>
<td>50%</td>
<td>39%</td>
</tr>
<tr>
<td>Economic uncertainty</td>
<td>60%</td>
<td>32%</td>
<td>8%</td>
</tr>
</tbody>
</table>

Guarded Outlook

Overall optimism about member companies’ business opportunities in the coming year has dipped slightly from that indicated in the previous year’s survey. Forty-two percent said they were “more optimistic” about their wood-related business in the coming year versus last year; a solid number, but less than the 62 percent of respondents who expressed the same sentiments a year ago. Twenty-six percent said they felt less optimistic (compared to 15 percent last year).

Thirty-two percent indicated their optimism about the future remains the same as it did last year.

Survey takers were also asked to rank several factors as “very important,” “important” or “unimportant” for industry recovery. Nearly every respondent indicated that the state of the U.S. housing market was important, with 79 percent indicating that it was “very important” and 18 percent finding it “important.”

Responding members also felt that Government Economic Policy was important, with 29 percent finding it “very important” and 53 percent indicating it is “important.” Eighteen percent felt it was unimportant. The survey indicated that members are still concerned about the economy. Ninety-two percent of responding members felt the issue was either “very important” or “important,” slightly higher than 89 percent of respondents last year. Only eight percent of this year’s survey respondents ranked “Economic Uncertainty” as “unimportant.”

Taking Action

Whether the coming year is viewed with optimism or pessimism, EWTA members are taking steps to become and remain successful. In a section of the survey where respondents were asked to list what they have done to adapt to economic conditions or exploit opportunities, members have said they have built new facilities, developed markets outside North America, and invested in new product development.

“(We have) become more savvy with competition and the marketplace,” said one member. “(We have) increased our advertising and marketing focus in the panel/engineered wood industry.”

Some companies are reaching beyond in-house knowledge to help create effective business plans: “(We) talk with customers to know what they want and focus developments accordingly.”

Many said their 2016 business plans focused on expansion — especially in the staffing arena.

“(We are) hiring the smartest people we can to develop new products for the industry,” said one member.

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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2016 Membership Directory

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

This membership directory, updated for 2016, 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:*

- Direct business-to-business links with your customers in the engineered wood products industry through such vehicles and events as Info Fair, an annual supplier show held in conjunction with the APA annual meeting; industry forums and seminars; APA annual meeting events; company news and advertising in the *Engineered Wood Journal*; and dissemination of your company news and technology innovations via the EWTA website and *Connections* e-newsletter.

- Free access to the APA monthly housing starts and quarterly production reports, and discounts on other APA publications and reports.

- Discounts on APA events and *Engineered Wood Journal* advertising.

- Free company listing and profile in the annual meeting issue of the *Engineered Wood Journal* for EWTA Info Fair exhibitors.

- Member products and services directory.

- Annual meeting and other event sponsorship opportunities.

- Supplier award program participation.

- Opportunities to exchange information with other EWTA members, APA members and APA staff via an EWTA advisory and subcommittee structure.

- Opportunities to support, participate in and receive the results of important industry technical and market research projects.

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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Contact: Stuart Clarke - President Phone: 601-366-0331 PO Box 4876 Jackson, MS 32926-4876 info@clarkeveneers.com www.clarkeveneers.com

Clarke’s Industries, Inc.

Contact: Andy Clarke - President Phone: 541-343-3395 PO Box 2428 Eugene, OR 97402 andy@clarke-ind.com www.clarke-ind.com

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

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

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

Contact: Mike Coil - Manager Phone: 604-596-7578 8269 – 130th Street Surrey, BC V3W 7X4 Canada mdc57@telus.net www.coilmfg.com

Columbia River Staple & Lumber Wrap, Inc.
Columbia River Staple & Lumber Wrap, Inc. has been providing the wood industry with fasteners, lumber wrap, tools and repair services for nearly 30 years. We specialize in customer service, and inventory galvanized, plastic, aluminum and stainless steel staples and nails, as well as lumber wrap caps and tabs, and repair tape. We carry BeA, Weber, Kotoko, Spot Nails, Titac, Maze Nails, Fanaco products and Spot Nails / Peace Industries.

Contact: Mark Burlingame - President & Sales Manager Natasha Kletter - Office Manager Waylon Burlingame - Pneumatics & Warehouse Operations Manager Phone: 800-807-8275 PO Box 9 Sherwood, OR 97140 columbiariverstaple@gmail.com

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

Contact: Gearoid Hogan - VP Sales & Marketing Northeast Phone: 336-378-8884 303 Concord Street Greensboro, NC 27406 gearoid.hogan@combilift.com www.combilift.com
Connexus Industries Inc.
Connexus Industries Inc. manufacturers and distributes specialized chain, attachments and sprockets for OSB manufacturing plants. We also are manufacturers of Laha/ro Laser Diodes and RENS-Metal, Shank Metal Detectors. Locations in Atlanta, Quebec, Portland & Vancouver. Formerly Viking Chains, L’Anco Products and Lacey Harmer Inc.
Contact: Cliff Lane - President & General Manager
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27474 Gloucester Way
Langley, BC V4W 4A1  Canada
clane@cnxsind.com
www.connexusindustries.com

Con-Vey Keystone, Inc.
Con-Vey has over 70 years experience in custom material handling solutions. We engineer and manufacture equipment for; Plywood, OSB, PB, MDF, LVL, I-Joists and Specialty Panels. Con-Vey Supplies world class saw lines, finishing lines, sanding lines, feeders, stackers, conveyors, specialty automated equipment and robotic solutions. Con-Vey means Quality and Value you can count on.
Contact: Dave Larecy - President
Phone: 541-672-5506
PO Box 1399
Roseburg, OR  97470
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www.con-vey.com

COSTA Sanders LLC
Building on 60+ years of experience manufacturing industrial calibrating, sanding and polishing equipment, Costa's large panel series machines continue a tradition of rugged wood class machinery that made Costa an industry leader in the field of industrial sanding-calibrating equipment. These “super duty” solutions are engineered and manufactured to the highest quality standards, in modular frames, with the right combination of working units, motors, and feed speeds that best fit the industrial process of today and tomorrow. Costa Sanders offers machine solutions engineered expressly to fit each client’s own manufacturing environment and production needs - whether Particle Board, Fiberboard, Plywood, OSB, or CLT. Our sanding systems are capable of processing up to 125" wide panels with thicknesses up to 10" at the required industry production speeds
Contact: Eric Johnston - Product Manager
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Phone: 336-434-6644
107 Seminole Drive
Archdale, NC 27263
ericjohnston@costasanders.com
www.costasanders.com

Covestro LLC
Covestro LLC is a world-leading supplier of high-tech polymer materials. Thanks to our global presence and close proximity to our markets, we are the partner of choice for a variety of industries. For manufacturers of composite wood products, consistent product quality and process advantages make Covestro’s Mondur® pMDI your natural choice for binding wood composites. Offering extensive R&D and strong technical service, Covestro is your source for binders and binder technology. The excellent property performance of wood composites bonded with Mondur pMDI products makes them especially suited for use in specialty applications; particleboard, laminated-stranded lumber, moisture-resistant OSB, OSB web-stock and OSB flooring.
Contact: Tim Thiel - Industrial Marketing Manager
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1 Covestro Circle
Pittsburgh, PA  15205
tim.thiel@covestro.com
www.covestro.com

Dieffenbacher
Dieffenbacher USA, Inc.
Dieffenbacher is an international group of companies specializing in the manufacturer of press systems and complete production systems for the wood, automobile and supplier industries. As an independent fifth generation family company, we have stood for continuity, tradition and reliability for over 140 years. Our Wood business unit plans and implements complete solutions for the manufacture of wood-based panels, such as particleboard, MDF, OSB, LVL and wood fiber insulation board plants.
Contact: Rick Burns - Vice President of Sales - North America
Phone: 678-325-5813
2000 McFarland 400 Blvd.
Alpharetta, GA  30004
rick.burns@dieffenbacher.com
www.dieffenbacher.com

Eastman Chemical Company
Eastman is a global specialty chemical company that produces a broad range of products found in items people use every day. With a portfolio of specialty businesses, Eastman works with customers to deliver innovative products and solutions while maintaining a commitment to safety and sustainability. Its market-driven approaches take advantage of world-class technology platforms and leading positions in attractive end-markets such as transportation, building and construction and consumables. Eastman focuses on creating consistent, superior value for all stakeholders. As a globally diverse company, Eastman serves customers in approximately 100 countries and had 2013 revenues of approximately $9.4 billion. The company is headquartered in Kingsport, Tennessee, USA and employs approximately 14,000 people around the world.
Contact: Richard Wright
Phone: 423-229-8334
200 South Wilcox Drive
Kingsport, TN 37660
rwright@eastman.com
www.eastman.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, Moisture Measuring, Mass (WPUA) Measuring, Weigh Scales and Density Profile Measuring Systems.
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3720 SW 141st Avenue, Suite #206
Beaverton, OR  97005-2349
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www.ews-usa.com

Engineered Coated Products, a division of Intertape Polymer Group
Engineered Coated Products supplies an exclusive automatic wrapping system and other wood wrapping products, promoting safety, reducing labor and providing new packaging alternatives to the engineered wood marketplace.
Contact: Scott Maw - Director of Wood Packaging
Phone: 780-224-6569
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Sherwood Park, AB T8A 6A4  Canada
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Evergreen Engineering, Inc.
Evergreen is a multi-discipline (mechanical, electrical, civil/structural and environmental) engineering firm. From project planning and feasibility studies through detailed engineering, construction management, maintenance and process consulting, to start-up and commissioning support, Evergreen can handle any project in your mill. Our wood products experience includes OSB, LVL, I-Joist, Particleboard, MDF, Hardboard, WPC, Pulp & Paper, Lumber, Plywood, Chemical and Resin plants. “Our mission is to provide customized support to move our client’s vision to reality by delivering practical engineering solutions, displaying project leadership and contributing technical expertise.”
Contact: Aaron Edewards - Director, Industrial Business Development
Phone: 541-484-4771
1740 Willow Creek Circle
Eugene, OR  97402-9152
aedewards@eeeug.com
www.evergreenengineering.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.
Contact: Ed Prigden - Minifog Product Manager
Phone: 336-299-2933
4365 Federal Drive
Greensboro, NC 27410-8116
eprigden@sparkdetection.com
www.sparkdetection.com

Flexpak Corporation
Flexpak Corporation is a U.S. based manufacturing company that provides woven wrap and packaging solutions to wood, lumber, and composites markets. Printed woven wrap is available for I-Joists, LVL, Glulam, lumber, and other specialty products. Flexpak manufactures several different shipping cover options for Plywood and OSB products including sewn woven covers, raliac covers, and heat sealed poly covers.
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www.polycovers.com

Fusoni U.S.
Fusoni develops and manufactures release agents and additives for panel board manufacturing, and also for paper impregnation processes. For more than 25 years we have been serving clients in Europe, Asia and the Americas. Our chemicals expertise extends to other industries, such as release applications in bakery and polyurethane systems. We add value through chemistry, and work closely with our customers, helping them improve the properties of their products and reducing production cost through excellent release and additive performance. We look forward to working with you to make your products better and your business more profitable.
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Fusoni U.S., Fusoni Componentes, S.L.
955 Lightstone Drive
San Antonio, TX 78258
C/ Mostayal, parcela D4
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España, Spain
ayovanovich@fusoni.us
www.fusoni-chemistry.com

Georgia-Pacific Chemicals, LLC
Georgia-Pacific Chemicals LLC has been an innovative, reliable supplier to the wood products industry for 50+ years. In addition to custom-formulated solutions we develop to meet our customers’ specific requirements, Georgia-Pacific Chemicals offers a portfolio of thermosetting resins for plywood, oriented strand board and laminated veneer lumber applications. The product line includes RESI-MIX® ready-to-use mixed adhesives, RESI-STRAN® liquid adhesives and WOODWELD® spray-dried powders. The unique GP® Process Modeling service provides real time statistical modeling of process parameters to identify opportunities for improvement and variation reduction throughout the production process. This can result in improved throughput and performance.
Contact: Georgia-Pacific Wood Adhesives
Phone: 866-4GP-CHEM/866-447-2436
133 Peachtree Street NE, Suite 19
Atlanta, GA 30303
gpchemical@gapac.com
www gp-chemicals.com

Globe Machine Manufacturing Company
Globe Machine offers single machine centers along with complete systems to the following industries: OSB, MDF, particleboard, plywood, strawboard, moulded door skins, membrane presses, siding, LVL, laminating floor Joist and sheet plastics. Globe Machine is the leader in the supply of automated I-Joist assebly systems and has achieved a leadership role in the cement fiberboard industry and moulded door skin lines. For over 95 years Globe Machine has served the forest products industry.
Contact: Mike Tart - Sales Manager
Phone: 253-383-2584
PO Box 2274
Tacoma, WA 98401
sales@globemachine.com
www.globemachine.com

GreCon – 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 decor 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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15875 SW 74th Avenue
Tigard, OR 97224
sales@grecon-us.com
www.grecon-us.com

Guardian Chemicals Inc.
Providing solutions, results and meaningful service has earned Guardian Chemicals Inc. the enviable industry reputation as the “go to” people for chemical technology and services. Our extensive research and development group, in house IS0 14001 certified manufacturing and products like our revolutionary patented PRESSGUARD series release agent technology for MDI resins in continuous and multi-opening presses, keep us at the forefront of the engineered wood industry. From W.E.S.P. and Scrubber treatment technology, process chemicals and defoamers to maintenance chemicals, odor control and corrosion prevention, Guardian’s wood group provides our partner clients with a complete package along with the flexibility to adapt products to the specific needs of each individual application and customer.
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155-55202 SH 825
Sturgeon Industrial Park
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gpecharsky@guardianchem.ca
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H.B. Fuller
H.B. Fuller Plywood Adhesive Coated Solutions has specialists for all your composing needs. Gain improved wood recovery and reduced unit costs at the composer through a package of specialized tapes and strings, patented adhesive application equipment, process improvement tools and expert service for both green and dry veneer process.
Contact: Daniel Gonzalez - Senior Technical Sales Manager
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Grenzebach Corporation
We are a leading global manufacturer and supplier of drying systems to the veneer and building materials industries with over 400 dryer installations worldwide. Grenzebach's new Wood Fiber Insulation Board line produces materials in densities of 3 to 10 lbs. per cubic foot. Our veneer product line includes dryer infed and outfed systems, jet and longitudinal dryers, and color veneer grading and stacking systems. Grenzebach has completed extensive rebuilds on all makes and models of veneer and gypsum dryers. Complete parts and service support is also available.
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www.grenzebach.com

H.B. Fuller, a global adhesives leader, has a leading position in engineered wood adhesives for the global wood products market. H.B. Fuller’s W.F.I. and FlexPak systems improve the efficiency of wood product manufacturing. For more information, visit www.hbfuller.com.
Henkel
Henkel is the world’s largest Adhesive company, and LOC-TITE PURBOND offers advanced chemistry, ecologically compliant 1 and 2 component structural wood adhesives. LOC-TITE PURBOND is a world leader in Polyurethane and Polyurethane Hybrid adhesives, offering ductile bond lines, zero Formaldehyde, zero solvents with a wide range of open and set times for Glulam, CLT, Finger jointing, and innovative applications, both cold setting and RF/hot press. With a strong North American sales and technical team and a fully equipped wood lab, we can provide the solutions, support and technology to meet the demanding requirements of traditional wood bonding and innovations of the future.
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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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100 West Borden Drive
Diboll, TX 75941
dale.leeper@hexion.com
www.hexion.com

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

Huntsman
Huntsman Polyurethanes
For approximately 30 years, Huntsman has been a global leader in the production of the MDI-based resin binders for particleboard, medium-density fiberboard and oriented strand board. Our dedicated Composite Wood Products teams are committed to helping our customers reach their goals in all market conditions. There is no added formaldehyde (NAF) with Huntsman’s RUBINATE® resins, and they are considered “exempt” under requirements of the California Air Resources Board (CARB) standards.
Contact: John Bebak - Commercial Manager
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The Woodlands, TX 77381
john_f_bebak@huntsman.com
www.huntsman.com

IMAL - PAL GROUP
IMA America, Corp. and Schelling America Inc.
Schelling America Inc. and IMA America, Corp. are leaders in the machinery industry. Working together, both companies provide their customers and business partners the benefit of working with one source in the areas of engineering customized industrial manufacturing solutions as well as standard machinery solutions. No matter what size your shop is we offer a wide range of products that can be integrated together to create an innovative affordable solution for any applications.
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www ima.schelling.com

IMAL - PAL GROUP
IMAL - PAL GROUP
Established in the 1970's, the Group is a world leader in the manufacture and supply of equipment and systems. It's extensive production program is able to supply complete turnkey plants for the treatment and processing of fresh and recycled wood, in both the wet and dry areas, for production and processing of particleboard, MDF, OSB, Plywood, Pellets, Pallet Blocks and pressed wood-based products in general. IMAL is a leading manufacturer of glue dosing and blending systems and supplies the most innovative on-line and laboratory quality control devices that are found in virtually all the production plants around the world.
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Stone Mountain, GA 30087
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www.imalpal.com

IMAS Inc.
IMEAS Inc.
IMEAS is a world leader in surface finishing solutions, with over 2,400 machines operating worldwide. IMEAS sanding and grinding machines are used to achieve precise surface finish and thickness on a wide variety of products such as plywood, LVL, composite wood panels, decorative laminates, flooring and solid surface products, etc. IMEAS specializes in extra wide machines – 10’ (3.2 meter) and cross-belt sanding for wood products and non-directional mirror finish for specialty steel products.
Contact: Nathan Rutherford - President
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1125 Commerce Drive, Suite 200
Peachtree City, GA 30269
imeas@imeas.net
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The HT Group
The HT Group provides nationwide recruiting and staffing services providing access to the nation’s premier technical, professional, management, and executive talent. We work extensively in building products, forest products, and consumer goods.
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Austin, TX 78731
nad.elias@thehtgroup.com
www.thehtgroup.com

IMEA Americas
IMEA Americas
IMEA Americas is the official publication of the Engineered Wood Technology Association.
www.imeaa.com

Huntsman Polyurethanes
Enriching lives through innovation
Huntsman Polyurethanes
For approximately 30 years, Huntsman has been a global leader in the production of the MDI-based resin binders for particleboard, medium-density fiberboard and oriented strand board. Our dedicated Composite Wood Products teams are committed to helping our customers reach their goals in all market conditions. There is no added formaldehyde (NAF) with Huntsman’s RUBINATE® resins, and they are considered "exempt" under requirements of the California Air Resources Board (CARB) standards.
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www.huntsman.com

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THE OFFICIAL PUBLICATION OF THE ENGINEERED WOOD TECHNOLOGY ASSOCIATION
Matthews Marking Systems
Matthews Marking Systems, established in 1850, is a leading supplier of marking and coding equipment for the engineered wood and building products industries. Matthews supplies ink jet printing solutions for applications including grade marking, nail patterns, traceability and large format logo printing. We also offer a variety of inks, specific to the wood industry, including water based, fast dry and VOC free.
Contact: Donna Meade - Strategic Initiatives Manager
Phone: 800-775-7775
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info@matw.com
www.matthewsmarking.com

McLube, Inc., McGee Industries, Inc.
McGee Industries/McLube Division has manufactured high-technology mold release agents and industrial lubricants since 1954, including water/solvent-based release agents for the rubber, plastics, composite, wood fiber composite/panel pressing, concrete and stone veneer and polyurethane markets, antistick coatings for hundreds of industrial applications and a full line of Moly lubricants (Moly Lube), PTFE lubricants oils, greases and dry film aerosol and bulk containers lubricants. Lines includes antistick coatings, rubber lubricants, antiseize compounds, cleaners and protective coatings.

Mereen-Johnson LLC
Mereen-Johnson LLC has been setting the standard for the woodworking and engineered materials industries since 1905 and offers a complete line of Gang Rip Saws, Profiling Machines, Cross Cutting Equipment, Sizing Systems, I-Joist equipment, and related material handling designed for reliable, high speed production with minimal maintenance. Mereen-Johnson also offers a complete line of solid wood processing equipment such as fixed arbor and shifting blade straight line multiple Rip Saws, Rough Mill Optimizing and Material Handling, Moulder, Single and Double End Tenoners, CNC controlled Dovetailers, and Box Clamps.
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Phone: 612-529-7791
575 Ninth Street SE, Suite 200
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info@mereen-johnson.com
www.mereen-johnson.com

Meinan Machinery Works, Inc.
Established in 1953 in Japan, Meinan develops and manufactures innovative machinery for veneer and plywood production, and holds hundreds of worldwide patents. Meinan’s revolutionary “spindleless” lathe drives logs on their circumference with spiked discs instead of spindles, resulting in better veneer quality, higher yield, and extremely close thickness tolerance. The lathe is part of an automatic veneer peeling line featuring automatic stacking and green composing of random strips into full veneer sheets to save labor costs and increase dryer utilization. Meinan also manufactures scarf composers, grading systems, automatic layup lines, and sanders. Represented in USA by Merritt Machinery, LLC in Lockport, NY.
Contact: Etsuro Tame - Sales Director
U.S. Representative: Merritt Machinery, LLC
Contact: Anna McCann, President
Phone: 716-434-5558
10 Simonds Street
Lockport, NY 14094
amccann@merrittmachinery.com
www.merrittmachinery.com

Metriguard, Inc.
High-speed Metriguard veneer graders operate in LVL and structural plywood mills worldwide. Laboratories depend on Metriguard Panel Bending & Performance Testers to evaluate structural panels. The new Model 840 tests OSB used as I-joist web stock. For MSR/MEL lumber producers, Metriguard offers the Model 7200 for longitudinal installations and the Sonic Lumber Grader for transverse installation – both are compatible with scanners. The Model 312 Bending Proof Tester is a standard in MSR QC Labs. With over 40 years in the engineered wood products business, Metriguard has the knowledge and equipment for grading and testing structural veneer, panels and lumber.
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Pullman, WA 99163
duskoski@metriguard.com
www.metriguard.com

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

Mill Machinery LLC
Mill Machinery is a provider of new and used machinery to the veneer and panel industries. Mill Machinery’s inventory of used production machinery includes veneer lathes, 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 systems, press platens, hydraulic units, lay-up line flying saws and side shift accumulators, panel feeders, stackers and conveyors.
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Molalla, OR 97038
tim@millmachinery.net
www.millmachinery.net
NESTEC, Inc.

NESTEC, Inc. is a turnkey provider of thermal oxidation systems for the wood products industry including regenerative and regenerative catalytic technologies, process duct design, system upgrades, energy audits, inspections and parts. Our staff of engineers has over 30 years of experience in the field of thermal oxidation and has participated in solving air emissions problems for the wood products industry since the early 1990s. Whether you need a new air pollution control system or require upgrades and improvements to an existing system, NESTEC, Inc. is your best resource to ensure a successful project.

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www.nestecinc.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 highest quality green products for industry. Our panel overlays are designed for high performance end uses and superior processability. They are designed to increase the value of the wood products they cover by increasing their durability, enhancing their appearance, and creating uniform surfaces to enhance the products end use.

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Panel World

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).

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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.

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Pallmann Industries, Inc.

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

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Nondestructive Inspection Service

Nondestructive Inspection Service (N.I.S.) was incorporated in 1960. Since that time we have taken preventative maintenance to higher levels of predictive maintenance while saving our customers costly unpredictable down time, on all types of process equipment along the entire production line. We are the established leader in applying our knowledge of NDT and perfecting inspection procedures to exceed industry standards. In the case of wood processing and construction board plants 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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www.debarking.com
Siempelkamp L.P.
The Siempelkamp Group of Companies is world leaders in the supply, installation and startup of equipment and complete production plants for the manufacture of wood based panel products, energy systems, dryer systems, panel handling and finishing systems.
Contact: Dirk Koltze - Executive Vice President
Phone: 704-522-0234
3506 High Hamptons Drive
Charlotte, NC  28210
dkoltze@siempelkamp-usa.com
www.siempelkamp-usa.com

Spar-Tek Industries
Spar-Tek Industries manufactures high quality machinery with the latest cutting edge technology for many industries including Plywood, LVL, Rubber and others. Today’s high volume Plywood production Lay-Up Lines place an emphasis on efficiency. Spar-Tek’s lay-up lines, Hot and Cold Presses, Loading and Unloading equipment, Glue Application systems and other equipment are designed to meet these demands. Helping customers meet and exceed their production and operating goals is a driving force at Spar-Tek. We are here to help you meet your goals and to do so requires innovative technology and machines designed to work at the highest operating speeds.
Contact: Rodney Bell - General Manager
Phone: 503-283-4749
2221 North Argyle
Portland, OR  97217
jnewton@spar.tek.com
www.spar-tek.com

Spraying Systems Co.
Spraying Systems Co. is the world’s leading manufacturer of spray technology equipment. Our offering includes a family of PanelSpray® systems for applying wax, resin, moisture and chemicals to chips, mats, caulks or belts. These systems ensure the precise volume of fluid is applied even when operating conditions like chip tonnage or line speed changes. We also offer the industry’s largest selection of spray products for use throughout your mill in other operations such as humidifying, marking, cleaning and coating. We serve our customers around the world from our 12 manufacturing facilities and 90 sales offices.
Contact: Brian Valley - Director - Industrial Solutions
Phone: 630-517-1283
899 Carol Court
Carol Stream, IL  60188
brian.valley@spray.com
www.spray.com

Steinemann Technology USA, Inc.
Steinemann Technology offers comprehensive sanding solutions with machines, sanding paper, 24 hour technical expertise and support and a large inventory of spare parts in our Charlotte, NC facility.
Contact: Dan Murphy - President
Phone: 704-522-9435
4607 Dwight Evans Road
Charlotte, NC  28217
sandings@steinemann.com
www.steinemannusa.com

Sasco Chemical Group Inc.
Researcher and manufacturer of release agents for the engineered wood industry.
Contact: Ed Juline - Director of Sales
Phone: 630-783-8900
204 Meadow Ridge Court
Canton, GA  30115-6623
dgagnon@samuelstrapping.com
www.samuelstrapping.com

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Stratachelm Solutions Group LP
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The Center for Renewable Carbon
The Center for Renewable Carbon is a state-of-art research facility at the University of Tennessee. The CRC has nine faculty conducting research on forest products, sustainable biomaterials and bioenergy, http://renewablecarbon.tennessee.edu/. The laboratories include wood composite laboratory, steam-injected presses, destructive testing lab, conditioning chambers, dry kiln laboratory and new laboratory capabilities for sustainable biomaterials pre-processing, pretreatment research, thermochemical and biochemical conversion, and product analysis. Also, unique analytical capabilities for nanotechnology sustainable biomaterials are available. The CRC has M.S. and Ph.D. concentrations in Sustainable Biomaterials and Wood Science Technology. The CRC provides world-class industry training programs in SPC/Lean, DOE, and data mining.
Contact: Timothy Young, Ph.D. - Professor
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50 Washington Street, 38 Columbus, IN 47201
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**Ventek, Inc.**
Ventek utilizes cutting-edge machine vision technology to design and manufacture automated process controls for the veneer and plywood industry. We provide vision-based scanning systems for both green and dry veneer, in-line moisture detection, and robotic systems for automation of veneer plug patching and panel repairs, along with complete green and dry veneer stacking lines. Ventek, founded in 1991, has fast become the industry standard in vision technology and one of the leading suppliers of such equipment in North America. We are proud to have been honored as the APA/EWTA’s Supplier of the Year for 6 of the past 8 years and Innovator of the Year in 2013.
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**Walker Emulsions**
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Wanhua Chemical is the fastest growing and largest MDI producer globally with best-in-class technology and world-leading state-of-the-art manufacturing sites producing WANNATE® PMDI binder solutions to customers and partners in the Composite Wood Panel industry. Wanhua Chemical is renowned for its high quality WANNATE products and dependable supply chain that Composite Wood Panel producers depend on. Wanhua Chemical has worldwide operations with a local commitment to customers, including ongoing investments in technical resources and infrastructure in North America, further strengthening Wanhua’s technical service and supply commitments to the Composite Wood Panel Industry.
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**Willamette Valley Company**
Willamette Valley Company manufactures epoxies, putties and urethanes for upgrading all wood substrates, and also makes a wide range of water based coatings, primers and sealers. Willamette also makes many fillers and extenders for wood adhesives and plywood glues. Pretec, the company’s equipment solutions division, specializes in the design and manufacture of advanced fluid systems and the integration of robotic application systems.
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**Zelam Ltd.**
Zelam Ltd. is an innovative research and development based specialty chemical company supplying protectants into the Engineered Wood Products Industry. Zelam develops preservative systems to control decay, mold and insects in wood products. One key area of expertise is in the protection of engineered wood via glue line application.
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t's the event EWTA members anticipate all year. The 2015 EWTA Info Fair supplier exhibition brings together engineered wood product suppliers from across the globe to share information about their products and services, network with other suppliers, and learn more about the industry. Info Fair is held concurrently with APAs Annual Meeting, which offers opportunities for members of the two related associations to attend workshops, roundtable discussions and training sessions as well as discuss business opportunities with each other.

EWTA’s most recent Info Fair event in Coeur d’Alene, Idaho, Oct. 17-19, brought together 75 exhibitors showcasing their offerings throughout the extended weekend. There were plenty of reasons to step out of the booth, including numerous receptions, luncheons, and sporting competitions (see sidebar, “Fun and Games”). It was also EWTA’s 70th birthday, giving members and their spouses even more reason to celebrate.
New Electronic Logos Offered to EWTA Members

EWTA recently created five colorful membership logos for use by its member companies. Each logo celebrates a membership milestone: Proud Member (for EWTA’s newest members), 10 Year Member, 20 Year Member, 30 Year Member, and 40+ Year Member. Electronic logos are released to members upon receipt of 2016 dues. The Member Logo Program allows members to publicize their affiliation with EWTA via electronic or hard copy correspondence and publications.
**Fun and Games**

Each year, Info Fair and Annual Meeting attendees are invited to participate in the golf, tennis and cripple coot shoot tournaments. The Sunday morning events, which precede a busy Monday of meetings and workshops, bring together EWTA and APA members for networking, socializing and some friendly competition. Inclement weather in Coeur d’Alene cancelled this past year’s Ole Sorenson Memorial Tennis Tournament, but competitors are expected to be back on the court in Bonita Springs, Fla., for the 2016 event this November.

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**Next Up: Info Fair 2016**

EWTA’s next Info Fair will be Nov. 5-7, 2016, at the Hyatt Regency Coconut Point Resort and Spa in Bonita Springs, Fla. For information, visit engineeredwood.org and click on Events & Programs, or email coordinator Melinda Lilley at mlilley@engineeredwood.org.
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- Individual banner at the APA Annual Meeting/EWTA Info Fair
- Special recognition on the EWTA website
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- Inclusion in custom press release
- Premium seating at the Chairman's Dinner at the Annual Meeting
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Gold
A premium connection level
Includes:
- Company logo included on gold banner at the APA Annual Meeting/EWTA Info Fair
- Recognition in the Engineered Wood Journal on the gold sponsor page
- One entry into the Annual Meeting golf tournament or other recreational event
- Three issues EWTA Newsletter sponsorship

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Includes:
- One issue of EWTA Newsletter sponsorship
- Company name included on silver banner at the APA Annual Meeting/EWTA Info Fair
- A silver listing in the Engineered Wood Journal

Other Sponsorship Opportunities
- Supplier Awards
- Cripple Coot Shoot
- Golf Tournament

For more information: Melinda Lilley, mlilley@engineeredwood.org or 253-620-2357
The Engineered Wood Technology Association’s Info Fair supplier exhibition – held in conjunction with APA’s annual meeting – provides face-to-face connection with leading engineered wood products industry decision-makers.

REGISTRATION OPENS April 1st
Early Bird Registration Ends August 29
Info Fair 2016: November 5-7
Hyatt Regency Coconut Point Resort and Spa in Bonita Springs, Florida
For more information: Melinda Lilley: mlilley@engineeredwood.org

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Samuel Strapping Systems is one of the world’s leading providers of industrial packaging solutions. We offer a range of state-of-the-art unitizing and load protection solutions to suit any application in the forest products industry.

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EWTA recognized five member companies as outstanding suppliers at the Chairman’s Dinner during APA’s Annual Meeting last October in Coeur d’Alene, Idaho. The Supplier of the Year Awards are bestowed annually and are based on the quality, service and delivery of EWTA member products and services to APA member companies. Awards are presented for each of EWTA’s membership categories: Equipment and Tooling, Materials and Supplies, and Consulting and Services. The award winners are selected by votes of APA member representatives.

Winners of the 2015 Supplier of the Year Awards are:

**EQUIPMENT/TOOLING CATEGORY**

**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 80 percent of this market share.

**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**

**(THREE-WAY TIE)**

**Hunt, Guillot & Associates, LLC**

Hunt, Guillot & Associates, LLC (HGA) is a multi-disciplined project management and engineering design firm. HGA has been serving the forest products industry since the firm’s founding in 1997. HGA continues to provide expertise to the engineered wood products, IVL, I-Joist, OSB, plywood, particleboard, glulam and lumber industries. Services provided include project management, feasibility studies, preliminary engineering, detailed design engineering and on-site technical support services.
Nondestructive Inspection Service

Nondestructive Inspection Service (NIS) was incorporated in 1960. Since that time the company has taken preventative maintenance to higher levels of predictive maintenance while saving customers costly unpredictable down time on all types of process equipment along the entire production line. In the case of wood processing and construction board plants, NIS has 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.

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).

Representatives from Hunt, Guillot & Associates, LLC pose with their Supplier of the Year Award in the Consulting/Services Category (three-way tie). Back row, from left: Shay Nichols, Satish Bharadvaj, Allen Wiley and Aaron Bowling. Middle row, from left: Johnny Leggett, Trotter Hunt, Sam Costanza. Front row, from left: Jay Guillot, Trot Hunt, Jason McIntosh.

Nondestructive Inspection Service was one of three EWTA member companies to be honored as a Supplier of the Year in the Consulting/Services Category. From left are Talon Roberts, Steve Barnett, Jim Whittington, Ed Hauldren, Pat Kinder, Earl Roberts and Nick Keener.
The emphasis on climate change has influenced governments to address the issue of energy efficiency, or lack thereof, in our current buildings. As a result, buildings codes throughout the U.S. have become more stringent in terms of increased requirements for thermal resistances in colder climates. APA – The Engineered Wood Association is addressing the topic through the involvement of the Coalition for Fair Energy Codes (established to advance the fair and impartial treatment of all building products in energy codes and standards) and an ongoing hygrothermal research program that, when complete, will allow APA to make general design recommendations on the use of wood structural panels in energy efficient walls in wood-framed construction.

Thermal resistance, typically measured as an R-value in the construction industry, is the ability to resist heat flow across a specific material or assembly. In the case of wood-framed building enclosures, recent versions of building codes require either increasing the thickness of conventional insulating materials such as fiberglass batt insulation between wood-studs or using high R-value materials such as rigid foam insulation. However, changes in insulating materials and building enclosure design may introduce potential durability issues, especially when vapor retarders are used. Vapor retarders are continuous materials that prohibit or reduce the passage of water vapor through wall and ceiling assemblies to prevent moisture condensation. Most building materials are sensitive to temperature, relative humidity and moisture, which under certain circumstances can lead to material deterioration, mold-growth, and decreased thermal performance.

APA’s hygrothermal research program is a multi-year effort aimed at understanding when condensation may occur in wall assemblies and how drying occurs when the wall is subjected to moisture intrusion or condensation. It involves a series of collaborative research projects designed to help identify the best way to optimize energy efficiency in wall structures. In 2011, APA partnered with the USDA Forest Products Laboratory and Washington State University to investigate the potential combination of wood structural panel sheathing and rigid foam.

The exterior walls of the test hut are insulated with common insulating products before (top photo) and after the exterior siding is installed.
plastic insulation as a solution for structural and energy conservation requirements in U.S. building codes. (Additional information about this completed study can be found in Wood Structural Panel and Foam Insulations Systems: Hygrothermal Behavior & Lateral Load Resistance – Experimental Studies, Form R700 at apawood.org/resource-library.)

Practice Into Use
APA is currently testing the findings of this collaborative study at an APA test facility it designed and built in late 2015 on the campus of APA’s headquarters in Tacoma, Wash. The Hygrothermal Test Hut exposes various types of wall assemblies to the real world environment. The test hut is eight ft. wide by nine-and-a-half ft. tall by 40 ft. long and is fully insulated and conditioned to typical indoor environments in the region (70 degrees F and 45 percent relative humidity) suitable for residential buildings. It is able to house 16 individual wall assemblies with various configurations; each four ft. wide by eight ft. tall. The assemblies are built to expose one side to the natural outdoor environment and the other to a controlled indoor environment. The walls are oriented facing both the north and south directions to evaluate the effects of sunlight and shade exposure.

The test walls are insulated with a number of different common exterior insulation products, including extruded polystyrene, expanded polystyrene and mineral wool insulation. While results of the tests won’t be available until at least one full year of testing is complete (approximately January 2017), APA researchers have designed the research walls to assess some potentially high risk assemblies. One risk is the use of low-vapor permeability insulation materials (such as the extruded polystyrene and the expanded polystyrene) that may reduce the drying potential of the exterior-facing wall and may lead to mold growth or decay in the wall if low permeability vapor retarders installed on the interior side of the same test walls are also installed, as they may inhibit the wall’s ability to dry inwards, essentially creating a “trap” for moisture that finds its way into the stud cavity. The potential for moisture entrapment has been a major concern in the wood structural panel industry.

The effect of cavity insulation thickness on moisture performance is also being studied by comparing 2x4 framing with R-13 batt insulation and 2x6 framing with R-21 batt insulation within the same set of test walls. Researchers hope the full year of exposure will allow them to observe how the various wall configurations perform under a dynamic range of climate conditions.

Measuring Moisture
Each test wall is instrumented with temperature, relative humidity and wood moisture content sensors located at various locations within a stud cavity. They are also fitted with a wetting apparatus that can simulate potential moisture leaks into the wall assembly. The sensors will be able to constantly monitor the temperature and moisture levels within each wall assembly over the course of a pre-selected time period in order to understand
the performance of the walls exposed to actual seasonal weather conditions. After a period of data collection under regular exposure, the test walls will be subject to simulated water leaks using the wetting apparatus. A known amount of water will be periodically injected through a plastic tube that is fed to a wetting towel attached to the inside surface of the wood structural panel. The simulated water leaks will test the wall assemblies’ ability to stay or become dry in the presence of excess moisture.

It is expected that the results from this study will help researchers understand the effect of moisture condensation on various insulating materials, as well as the drying capabilities of such materials in cold and wet climates. Researchers will also be able to understand how Class I vapor retarders (such as a 6 mil polyethylene membrane) affect the wall’s drying potential in comparison to Class III vapor retarders (such as two coats of latex primer and paint). The study’s findings will determine how typical wall assemblies should be designed to prevent against moisture-related problems, particularly in Pacific Northwest’s wet and often cold Climate Zone 4C conditions.

Furthermore, the test data will be compared to simulated data using a one-dimensional computer hygrothermal model (WUFI Pro). The comparison will be useful to determine the accuracy of computer simulated models used to design wall assemblies. The data will also be compared to real-world data currently being collected by a parallel study at the USDA Forest Products Laboratory in Madison, Wis. The Madison study — which also uses a test hut to conduct the experiment on similar test wall assemblies — is located in a Climate Zone 5, which is colder than the Pacific Northwest’s Climate Zone 4C. In theory, the condensation potential within a wood-framed wall assembly for an occupied home would be greater in the colder region.

Defining Data
The results from the APA Test Hut can serve as substantial evidence for potential changes to current building code requirements. In particular, the sections in the model building codes that address vapor retarders, insulation and other wall assembly materials can be further refined. The wood-framed residential building industry can benefit from the results of this study, as it will ensure that certain designs can reduce or eliminate the chances of wall assembly failure caused by unwanted moisture intrusion. Designers and engineers can also benefit by understanding the accuracy and limitations of computer simulated hygrothermal models.

The research data, analyses and recommendations will be included in an APA Technical Report provided after the tests are completed. This could be as early as mid 2017, depending on the success of data collection and if any significant changes to the test parameters are required.

Kelvin Liu is a building scientist in APA’s Technical Services Division. He can be reached at Kelvin.Liu@apawood.org.
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EWTA 2016 Research Funding Set at $50,000

EWTA’s Advisory Committee at its fall meeting voted to allocate $50,000 in funding for five projects benefiting the engineered wood industry as part of its overall 2016 budget recommendation sent to the APA Board of Trustees. The project proposals, presented by APA staff and reviewed by the EWTA Adhesives and Technical Subcommittee, included $10,000 for a study on VOC emissions from wood, $10,000 for a continuation of a study into industrial markets, $10,000 to study acoustic and fire-related assemblies, $10,000 for hydrothermal research, and $10,000 for testing of the Flame Spread Index for wood structural panels.

In 2015, EWTA supported four APA projects with funding totaling $46,000. Over the past 15 years, EWTA’s research investment — paid with associate member contributions and program revenue — has totaled nearly $200,000.

APA Staff; Members Named to CWC Committee

Several APA staff members and APA members were recently named to the Canadian Wood Council’s newly formed Technical Strategies and Priorities Steering Committee, which was created to provide guidance to CWC’s technical staff in the development, implementation and performance measure of the Canadian Wood Council’s technical strategies and priorities.

Members representing the wood structural panel and engineered wood producers include Dr. BJ Yeh, APA Technical Services director; Robert Fouquet, vice president, Product and Export Market Development, Norbord Inc.; and Kevin Blau, manager, Product Development and Quality, Tolko Industries Ltd.

The committee will also provide commentary and recommendations to the council’s board of directors on CWC technical program effectiveness, strategic direction and human resource and budget needs.

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RoyOMartin’s Jonathan Martin Receives Bronson J. Lewis Award

Jonathan Martin, owner and president of RoyOMartin of Alexandria, La., was honored with the Bronson J. Lewis Award at the APA Annual Meeting in Coeur d’Alene, Idaho.

The annual award is named after the late Bronson Lewis, who served for 24 years as secretary and then executive vice president of APA. The award recognizes individuals for their leadership and outstanding contribution to the industry.

Martin has been a recognized force in the structural panel industry for more than 40 years. In 1981, he directed the design and construction of the first OSB plant in the south, and in 1995 he directed the design and construction of a new state-of-the-art plywood plant. He embodies RoyOMartin’s unique management style, seizing opportunities and instilling a commitment to success in all employees.

EWTA Welcomes New, Returning Member Companies

Several new and returning companies have joined EWTA as members since the publication of the fall Engineered Wood Journal, bringing total current membership count to 107 companies. They are:

- **Arch Wood Protection, Inc.**
  (www.wolmanizedwood.com), of Atlanta, Ga., is a producer of wood treating chemicals. Director of Business Development J.R. Virnich can be reached at jr.virnich@lonza.com.
- **BRUKS Rockwood**
  (www.bruks.com), of Alpharetta, Ga., is a specialty materials handling company known in North America for its drum chippers and has a 120-year history in innovative equipment for wood chipping and hogging. North America Sales Manager Rene van der Merwe can be reached at rve@bruks.com.
- **Combilift USA**
  (www.combilift.com) of Greensboro, N.C., is a specialist forklift and straddle carrier manufacturer producing a wide range of customized handling solutions. VP of Sales and Marketing Northeast Gearoid Hogan can be reached at gearoid.hogan@combilift.com.
- **Mereen-Johnson LLC**
  (www.mereen-johnson.com) of Minneapolis, Mn., is a woodworking technology company offering a long line of material handling equipment. Corporate Sales Manager Dave Olson can be reached at info@mereen-johnson.com.

Mulberry Named New President at Roseburg

Roseburg Forest Products recently announced that it has selected Grady Mulbery to assume the role of company president. Allyn Ford, Roseburg president and CEO, will continue in his role as CEO until January 2017, when he will retire. Mulbery will then assume the joint role of president and CEO.

Mulbery joined the Springfield, Ore., company in 2011 as vice president of Composites Manufacturing and later became vice president of Manufacturing. He has led Roseburg’s production operations since 2012.

Ford has been CEO/president of Roseburg since 1997 after overseeing the company’s timberlands for several years. He succeeded his father, the late Kenneth Ford, who started the company in 1936.

Hexion Names Knight As New CEO

Hexion Inc. recently named George F. Knight the new executive vice president and chief financial officer of the company. He replaces William H. Carter, who is retiring. Knight was previously the senior vice president—finance and treasurer for Hexion and had served in that role since 2005.
ADM Systems Promotes Fyffe to CEO
ADM Systems Engineering recently announced the appointment of Steve Fyffe to the role of CEO. Fyffe has been with ADM since 2010 as the business development manager for the company’s mechanical group. His professional background is in multi-disciplinary industrial projects and industrial energy management.

BASF Named Top Employer in Canada
BASF was recently named one of Canada’s Top 100 Employers for 2016 by Mediacorp, a publisher of employment periodicals. BASF Canada was cited for providing its employees with benefits that meet their needs at different life stages, from health care and parental leave to scholarships and retirement.

In addition to offering 17 weeks of parental leave for new parents, the company offers family coverage on their health plan. The company also received recognition for its learning and development opportunities, including international and cross-organizational moves.

Valspar Provides $25,000 In Scholarships
Valspar recently announced that its Valspar Foundation has donated $25,000 to provide scholarship and research opportunities for North Dakota State University (NDSU) graduate students studying coatings and polymeric materials.

Valspar’s contribution will support five graduate students with scholarships of $3,000 each. The remaining funds supported undergraduate students participating in the Coatings and Polymeric Materials Department’s Summer Undergraduate Research Experience (SURE).

Ashland Separates Into Two Companies
Ashland Inc. announced in a press release that it has separated into two independent, publicly traded companies — Ashland and Valvoline.

The new Ashland will be a specialty chemicals company with positions in the consumer and industrial markets, and Valvoline will be an engine and automotive maintenance business.

The company also announced the hire of Greg Elliott as vice president and chief human resources and communications officer. Elliott was most recently a senior vice president at Navistar, a global manufacturer of commercial and military trucks, proprietary diesel engines and buses.
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2016

APRIL
1-3 American Wood Protection Association Annual Meeting, San Juan, Puerto Rico, www.awpa.com
5-6 Wood Bioenergy Conference and Expo, Atlanta, Ga., bioenergyshow.com
6 EWTA Advisory Committee Spring Meeting, Atlanta, Ga.
6-8 IWPA 60th World of Wood Annual Convention, Austin, Texas, www.iwpawood.org
7-8 Panel and Engineered Lumber International Conference and Expo (PELICE), Atlanta, Ga., pelice-expo.com

MAY
1-3 American Wood Protection Association's Annual Meeting, San Juan, Puerto Rico, www.awpa.com
19-20 Hardwood Plywood and Veneer Association Spring Conference, New Orleans, La., www.hpva.org
24-28 25th Biennial Xylexpo Exhibition, Milan, Italy, www.xylexpo.com

JUNE
1-4 16th International Exhibition on Woodworking Machinery and Furniture Manufacturing Equipment, Beijing, China, www.chinaexhibition.com
15-17 International Bioenergy Conference and Exhibition, Prince George, B.C., www.bioenergyconference.org
27-29 Forest Products Society 70th International Convention, Portland, Ore., www.forestprod.org

AUGUST
22-26 2016 World Conference on Timber Engineering, Vienna, Austria, wcte2016.conf.tuwien.ac.at

SEPTEMBER
28-30 Timber Processing and Energy Expo, Portland, Ore., www.timberprocessingandenergyexpo.com
24-27 International Woodworking Fair, Atlanta, Ga., www.iwfatlanta.com

NOVEMBER

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Correction: In the Advertiser Connections section of the fall 2015 issue of the Engineered Wood Journal, McLube was listed under “lubricants”. McLube should have been listed under “release agents”. The Journal regrets the error.
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