



PANEL & ENGINEERED LUMBER INTERNATIONAL CONFERENCE & EXPO

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By Industry People For Industry People

PROGRAM

MARCH 12-13, 2020

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PANEL & ENGINEERED LUMBER INTERNATIONAL CONFERENCE & EXPO

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WHERE PLANS TAKE SHAPE

We're only into March and the year of perfect vision has already delivered an impeachment acquittal of the president, the coronavirus, and the Astros cheating at baseball. What's next?

If you're looking for a little stability, you've come to the right place. Welcome to the Omni Hotel at CNN Center and to the seventh Panel & Engineered Lumber International Conference & Expo (PELICE), which is again co-produced by *Panel World* magazine and Georgia Research Institute.

We very much appreciate your participation and attendance, especially the 39 speakers and 90 exhibitor companies who are contributing their valuable resources, personnel and time.

One of the things that was happening, before we ran into those peculiar string of events just mentioned, was that the building products industry appeared to be gathering momentum. We believe PELICE is as good a place as any to restore this momentum—after all it does bring together the best and the brightest of the structural and non-structural wood products industries.

Two themes emerge from the conference agenda. One is a familiar one for PELICE: project development. Through good times and bad, project development has always been the driving force behind PELICE. It's really why PELICE was created—as a platform for such discussion from many points of view and many segments of the industry.

Several of our presenters will address projects ongoing and projects just completed. One of the ongoing and nearly completed ones is so interesting that we stepped outside of the realm of wood to include it. We refer to the CalPlant rice straw based medium density fiberboard plant in Willows, Calif. The inventor of this product, who is the co-founder and CEO of CalPlant I, Jerry Uhland, will deliver one of our keynote talks. I don't know how Jerry will squeeze 23 years of project development into 25 minutes, but we can't wait.

The other theme is company cultural development. Several presentations will address it and how it has become as much a part of their fabric as a preventive maintenance program. The message is that innovation thrives more with cultural development and diversity than without it. Not to mention that it's simply the right thing to do for your work force. Two of our speakers, Michelle Driscoll from Corrigan OSB and Anna Umphress of Georgia-Pacific, will get right to the point in the session on Women in Manufacturing.

Of course there's a lot more on the agenda: from market forecasts to plywood lathe technology to cross-laminated timber to wet ESP design to composite board scanning. Now that's real diversity.

Thanks for coming.



Rich Donnell
Editor-in-Chief
Panel World
PELICE Co-Chairman



Fred Kurpiel
President
Georgia Research Institute
PELICE Co-Chairman

BROUGHT TO YOU BY...

The seventh Panel & Engineered Lumber International Conference & Expo (PELICE) is co-produced by *Panel World* magazine and Georgia Research Institute.

Panel World is published six times per year and covers the domestic and international plywood and veneer, OSB, MDF, particleboard and engineered wood products segments.

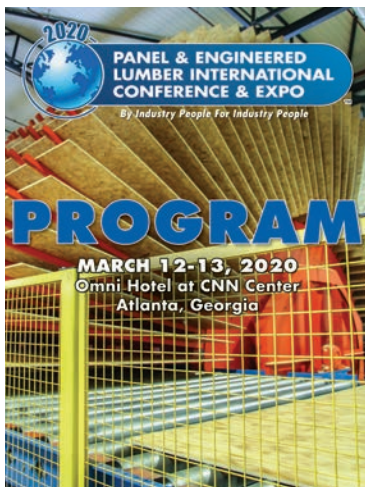
Panel World is published by Plywood & Panel World, Inc., which is affiliated with Hatton-Brown Publishers, Inc., which is headquartered in Montgomery, Ala., and publishes *Wood Bioenergy*, *Timber Processing*, *Timber Harvesting* and *Southern Loggin'* Times magazines.

In addition to co-producing PELICE, Georgia Research Institute serves many roles in the wood products industry, including research on products and technologies, and analyzing and deciphering market trends around the globe.

The co-chairmen of PELICE are Rich Donnell and Fred Kurpiel. Donnell is the editor-in-chief at Hatton-Brown Publishers, Inc. and editor-in-chief of *Panel World*. He has been covering the wood products industries for 37 years. Kurpiel is president of Georgia Research Institute and has worked in the forest products industry for 42 years, including roles in export management, project development, marketing and machinery sales.

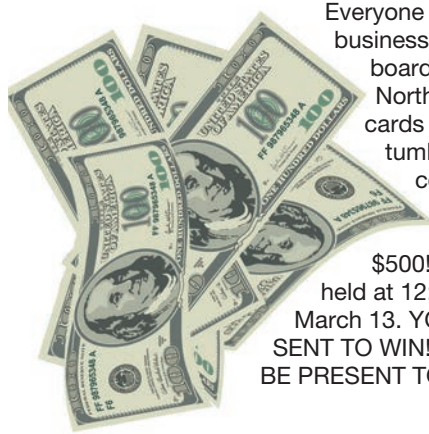
Dianne Sullivan, who is chief operating officer at Hatton-Brown Publishers, Inc., where she has worked for 54 years, serves as manager of PELICE.

PELICE PROGRAM



The PELICE Program is the result of detailed efforts by production personnel Cindy Secrest, Shelley Smith, Brad Jackson and Stephen Mock. It includes short biographies and presentation summaries of the 39 speakers from the panel industry who have graciously volunteered their time.

CASH PRIZE DRAWING: \$500



Everyone is invited to tack their business cards to the bulletin board in the Grand Ballroom North exhibitor hall. Those cards will be placed in a tumbler at the end of the conference and a winning card will be drawn. The prize? \$500! The drawing will be held at 12:30 p.m. on Friday, March 13. **YOU MUST BE PRESENT TO WIN!** Repeat: **YOU MUST BE PRESENT TO WIN!**

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PANEL & ENGINEERED LUMBER INTERNATIONAL CONFERENCE & EXPO

MARCH 12-13, 2020

Omni Hotel at CNN Center
Atlanta, GA, USA

THURSDAY, MARCH 12

EXHIBITORS/ATTENDEES BREAKFAST
(Grand Ballroom North)
7:30-8:30 a.m.

MORNING KEYNOTERS SESSION
(Rooms B-C)

8:30-8:35 a.m.
Welcoming Remarks and Keynoters Introduction
—Rich Donnell, Conference Co-Chairman; Editor-in-Chief, *Panel World*

8:40-9:05 a.m.
Growth through Investment and Innovation
—Ashlee Cribb, Senior VP-Chief Commercial Officer, Roseburg Forest Products

9:10-9:35 a.m.
Arauco Grayling: Building a Future
—Steve Carroll, Vice President of Operations, Arauco NA

9:40-10:05 a.m.
Huber Engineered Woods—Spring City Plant Restart
—Mark Lindquist, VP-Operations, Huber Engineered Woods

TIME OUT WITH EXHIBITORS
(Grand Ballroom North)
10:10-10:30 a.m.

MID MORNING SESSION
(Rooms B-C)

10:35-10:40 a.m.
Remarks and Introductions
—Fred Kurpiel, Conference Co-Chairman; President, Georgia Research Institute

10:45-11:05 a.m.
Introducing Egger Lexington, NC: A State-of-the-Art Particleboard Manufacturing Plant
—Bernd Bielfeldt, Division Director Tech-nics and Production Americas, Egger

11:10-11:30 a.m.
Positioning Egger High-Quality TFL for North America's Growing Furniture Industry
—Luciano Tiburzi, Division Director Sales and Marketing Americas, Egger

11:35—Noon
Executing Projects in the Digital Age
—Bijan Shams, President, Cogent Industrial Technologies

HANDLING & PROCESSING TECHNOLOGIES
(Pine Room)

10:35-11:00 a.m.
An Honest Appraisal of Current Softwood Lathe Systems and Thoughts about the Future
—Alan Knokey, Vice President, USNR

11:05-11:30 a.m.
Smart Material Handling – Good Designs Are NOT More Expensive
—Tim Brown, Business Development Manager, Veneer Services

11:35—Noon
Robotics in Wood Products
—Jeremy Goebel, Sales Manager, Con-Vey

EXHIBITORS/ATTENDEES LUNCH
(Grand Ballroom North)
12:05-1:25 p.m.

AFTERNOON KEYNOTERS SESSION
(Rooms B-C)

1:30-1:35 p.m.
Remarks and Remembrance
—Dan Shell, Senior Editor, *Panel World*

1:40-2:05 p.m.
The RoyOMartin Journey to a World Class Safety Culture
—Terry Secrest, Executive VP of Manufacturing and Product Sales, RoyOMartin

2:10-2:35 p.m.
20 Years, 8 Months, and 17 Days...But Who's Counting
—Jerry Uhland, CEO, CalPlant I

TIME OUT WITH EXHIBITORS
2:40-3:10 p.m.

PROJECT IMPLEMENTATION
(Room B)

3:05-3:10 p.m.
Moderator Remarks
—Bijan Shams, President, Cogent Industrial Technologies

3:15-3:35 p.m.
We Know a Thing or Two Because We've Seen a Thing or Two
—Tom Lepak, VP Business Development, Casey Industrial

3:40-4:00 p.m.
Using Knowledge Management Initiatives to Achieve Successful Project Implementation
—Justin Price, Principal, Evergreen Engineering

4:05-4:25 p.m.
Project Execution—Modern Tools and Classic Principles
—Scott Stamey, Vice President/Sr. Project Manager, Mid-South Engineering

4:30-4:50 p.m.
Relocating an Energy Plant: How, and Why Engineer It?
—Tom Wechsler, President, Wechsler Technologies

WOMEN IN MANUFACTURING
(Room C)

3:10-3:35 p.m.
A Look into Self-Growth, Working Outside the Norm and Mentoring Future Leaders
—Michelle Driscoll, Technical and Environmental Manager, Corrigan OSB

3:40-4:05 p.m.
If You Can See Her, You Can Be Her: Raising the Profile of Women In Manufacturing at Georgia-Pacific
—Anna Umphress, Senior Director, Business Unit Communications, Georgia-Pacific

AIR EMISSIONS TREATMENT
(Spruce Room)

3:10-3:35 p.m.
Advancements in WESP Design for Dryer Particulate Control
—Rodney Schwartz, Vice President Sales & Business Development Americas, Dürr Systems

3:40-4:05 p.m.

Base-Metal Catalysts in the Board Industry: Continuing Application Experience

—Dr. Grigori Bunimovich, Owner and COO, Matros Technologies

4:10-4:35 p.m.

Forty Years of Wood Dryer Emission Control—Where Have We Been, Where Are We Going?

—Steve Jaasund, Geoenergy Product Manager, LDX Solutions

SCANNING TECHNOLOGIES

(Pine Room)

3:10-3:35 p.m.

The Total View of Board Quality by High-Resolution Ultrasonic Linear Array Scanning Technology

—Konrad Solbrig, Head of Technology Wood-Based Composites, Electronic Wood Systems

3:40-4:05 p.m.

3-D ParticleView: Three-Dimensional Particle Measurement

—Torben Marhenke, Research and Development Engineer, GreCon

EXHIBITORS/ATTENDEES RECEPTION

(Grand Ballroom North)

5:00-7:00 p.m.

FRIDAY, MARCH 13

EXHIBITORS/ATTENDEES BREAKFAST

(Grand Ballroom North)

7:30-8:30 a.m.

MORNING KEYNOTERS SESSION

(Rooms B-C)

8:30-8:35 a.m.

Remarks and Introductions

—Fred Kurpiel, Conference Co-Chairman; President, Georgia Research Institute

8:40-9:05 a.m.

Dynamics in Wood-Based Panels and Engineered Wood Products—Opportunities and Challenges for the North American Industry

—Frank Goecke, Director, AFRY Pöyry

9:10-9:35 a.m.

Research and Development of Isocyanate-Free and Formaldehyde-Free Cold-Set Wood Adhesives

—Kaichang Li, Professor, Chemical Engineering, Oregon State University

9:40-10:05 a.m.

Why Specify North American Decorative Hardwood Plywood and How?

—Kip Howlett, President, Decorative Hardwoods Association

TIME OUT WITH EXHIBITORS

(Grand Ballroom North)

10:10-10:30 a.m.

MASS TIMBER DEVELOPMENTS

(Room B)

10:30-10:50 a.m.

Global Breakthrough of CLT – Markets and Technologies

—Dominik Wolfschütz, Market Research Specialist, German Woodworking Machinery Manufacturers Assn. (VDMA)

10:55-11:15 a.m.

A Manufacturer's Review of Supply Chain Challenges and Opportunities for the CLT Market

—Charles Gale, Strategic Business Analyst, SmartLam North America

11:20-11:40 a.m.

Mass Timber Earns its Place: A Great Solution for Many Reasons

—Scott McIntyre, North American Business Director Performance Adhesives, Forest Products Div., Hexion

11:45-12:05 p.m.

Detection of Internal Lack of Bond Defects in Wood Fiber Based Products

—Clyde Steffens, Principal, Automation Industries

FIBER DEVELOPMENTS

(Room C)

10:30-10:55 a.m.

Keeping Structural and Decorative Wood Products Relevant: Development of Alternative Fibers, Products, and Processes

—Richard Baldwin, CFO/Treasurer, Oak Creek Investments

11:00-11:25 a.m.

Demonstrating the Value of Closed-Loop Biomass in Hybrid Panel Board Production

—Wendy Owens, CEO, Hexas Biomass

11:30-11:55 a.m.

The Emergence of Bamboo Building Materials in the 21st Century

—Avery Chua, President, dasso USA

EWP PERFORMANCE

(Pine Room)

10:30-10:55 a.m.

Stranding Mainly Young Eucalyptus to Produce, Cost-Effectively, a Portfolio of Superior Performance Engineered Wood Products and Solutions, Including Cross Laminated Strand Timber

—Graeme Black, CEO, Lignor

11:00-11:25 a.m.

Effective Protection of Engineered Wood Products from Termite Attack

—André Siraa, Global EWP Technical Manager, Lonza Wood Protection

11:30-11:55 a.m.

Scrimber: How to Make Structural Material from Any Kind of Wood

—Stefan Zöllig, Co-Owner, Timber Structures 3.0

PROCESS IMPROVEMENTS

(Spruce Room)

10:30-10:50 a.m.

Developments in Thermal Oil Pump Room Safety

—Michael York, Systems Engineer and Product Manager, Wechsler Technologies

10:55-11:15 a.m.

The Impact of Friction on Energy Consumption: A Case Study from the Wood Processing Industry

—Steffen Bots, Technical Manager, Addinol

11:20-11:40 a.m.

High Resistance Wear Boards

—Bert Baumann, Co-Owner & Sales Manager, BKB Industrial

11:45-12:05 p.m.

The Lifeblood of Your Plant

—Peter Smyth, Industry Sales Manager, C.C. Jensen

CASH DRAWING

(Grand Ballroom North)

(Must be present to win)

12:30 p.m.

LUNCH ON YOUR OWN

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Altec Integrated Solutions	315
Andritz	514
Ashland	512
Atlantic Combustion Technologies	600
Automation Industries	515
Biomass Engineering & Equipment	414
BKB Industrial	504
Brunette Machinery	303
C.C. JENSEN	413
Casey Industrial	610
Civil & Environmental Consultants	320
Cogent Industrial Technologies	107
Con-Vey	209
Continental Conveyor Ltd.	307
Costa Sanders	205
Custom Engineering	403
CV Technology	417
Decorative Hardwoods Assn.	606
Dieffenbacher USA	103
Dieffenbacher-Zaisenhausen Maschinenfabrik	204
Dürr Systems	616
Eagle Project Services	501
Electronic Wood Systems North America	208
Evergreen Engineering	505
Evertree Technologies	214
EWTA-Engineered Wood Technology Assn.	709
Fagus Grecon	700
Flamex	304
Fromm Packaging Systems	507
Georgia-Pacific Chemicals	202
Globe Machine	203
Grenzebach	416
Hansen-Rice	421
Hexion	115
Hurst Boiler & Welding	313
IMAL-PAL Group	117
IPCO	105
Isel.	404
Itipack Systems	420
Jones Construction	620
Kimwood	602
KraftPowercon	415
Laidig Systems	305
LDX Solutions	316
LIGNOR Ltd.	628

COMPANYBOOTH NUMBER

Lonza Wood Protection	309
Matros Technologies	409
Matthews Marking Systems	614
Mid-South Engineering	215
MoistTech	402
NESTEC	216
Nextwire	618
Paratherm Heat Transfer Fluids	626
Player Design	317
Process Combustion	312
Process Sensors	207
ProChem	502
Quantum Chemical	206
Raute-Metriguard	109
REA JET	408
Roo Glue	406
Samuel Coding & Labelling	212
Schrader Verfahrenstechnik	701
SEMCO	314
Sensortech Systems	207
SHW Storage & Handling Solutions	519
Siempelkamp LP	113
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Southern Environmental	624
SparTek Industries	213
Spraying Systems	412
Steinemann Technology USA	513
Sweed Machinery	608
Tanguay	703
Tebulo Industrial Robotics	604
Timber Automation	308
Timber Products Inspection (TPI)	107
Timber Structures 3.0 (TS3)	705
TSI	302
USNR	217
Venango Machine	403
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West Salem Machinery	506
Westmill Industries	516
Willamette Valley	509
Wrapabull	511

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THURSDAY, MARCH 12 MORNING KEYNOTERS SESSION (ROOMS B-C)

8:30-8:35 A.M.

Welcoming Remarks and Keynoters Introduction

Rich Donnell, Conference Co-Chairman; Editor-in-Chief, Panel World

8:40-9:05 a.m.

Growth through Investment and Innovation

Ashlee Cribb, Senior VP-Chief Commercial Officer, Roseburg Forest Products



Roseburg Forest Products has a growth strategy that requires investment, innovation and diversity. Ashlee shares how Roseburg continues to invest in people, processes and capital to position the company for growth in key opportunity areas. Another catalyst of growth in the mature wood products industry is innovation. Ashlee discusses how Roseburg views innovation and the impact of manufacturing and product innovation on their business. Closely related to innovation is the strength of diversity in the workforce. Research has shown that companies that build diversity in an organization (gender, ethnicity, social, etc.) have more success in innovation, better decision-making and improved results than those that are more homogenous. Ashlee provides insight into how Roseburg is creating a culture of innovation and growth.

9:10-9:35 a.m.

Arauco Grayling: Building a Future

Steve Carroll, Vice President of Operations, Arauco NA



The North American panels business is growing rapidly in capacity as the largest producers in the world see the U.S. as the new frontier for growth and demand expansion. Arauco Grayling is the first of several new plants of significant scale that have or are coming on line in the next three years. Steve discusses the construction and startup of the world's largest particleboard plant, and the many challenges and opportunities that this presents.

9:40-10:05 a.m.

Huber Engineered Woods - Spring City Plant Restart

Mark Lindquist, VP-Operations, Huber Engineered Woods



After the worst housing downturn in modern history, which resulted in Huber Engineered Woods taking extreme actions to curtail operations at its Spring City, Tennessee OSB plant, the company carefully planned for the plant's imminent brownfield startup. By viewing the restart through a "People, Planet, Profit" lens, the team was able to identify environmental performance opportunities, improve operational

consistencies and solve safety risks. This planning activity enabled them to understand plant deficiencies, state clear goals and timelines for the project, and implement best practices. As a result, the Spring City plant achieved outstanding restart outcomes. Because of their efforts, the project and plant teams won the 2018 Mike Huber GOLD Award, an honor dedicated to exemplary performance within the J.M. Huber Corporation. Through the Spring City plant restart story, this presentation explores specialty products, challenges and developments facing the OSB industry.

MID MORNING SESSION (ROOMS B-C)

10:35-10:40 a.m.

Remarks and Introductions

Fred Kurpiel, Conference Co-Chairman; President, Georgia Research Institute

10:45-11:05 a.m.

Introducing EGGER Lexington, NC: A State-of-the-Art Particleboard Manufacturing Plant

Bernd Bielfeldt, Division Director Technics and Production Americas, Egger

11:10-11:30 a.m.

Positioning EGGER High-Quality TFL for North America's Growing Furniture Industry

Luciano Tiburzi, Division Director Sales and Marketing Americas, Egger



With more than 50 years of experience from Europe in its luggage, the successful wood-based panel manufacturer Egger is now venturing into the USA. Egger Group is currently building a greenfield plant in Lexington, NC. In their presentation,

Egger Americas Division Directors Bernd and Luciano discuss which wood products Egger will produce in the future, and what technology will be applied in the new particleboard plant in Lexington. In addition, they discuss what impulses they consider important for the American furniture industry and how the engineered wood industry can jointly further develop the market.

11:35-Noon

Executing Projects in the Digital Age

Bijan Shams, President, Cogent Industrial Technologies



The digital age is having a transformational impact enabling industrial operations with a competitive advantage. This presentation shows how deployment of digital platforms is significantly improving the management of projects and how these platforms are transitioned from project to operations to manage and improve operational performance. Bijan shares the complexity and challenges of delivering a project

and managing post-project operational performance issues and how digital platforms can significantly improve the outcome of both as well as provide a platform for Industry 4.0 initiatives.

HANDLING & PROCESSING TECHNOLOGIES (PINE ROOM)

10:35-11:00 a.m.

An Honest Appraisal of Current Softwood Lathe Systems and Thoughts about the Future

Alan Knokey, Vice President, USNR

How can one best assess the most effective veneer lathe system for their particular application? After all there are Brazilian, Finnish, Japanese and North American manufactured lathe systems to choose from. Each of these diverse veneer lathe manufacturers initially tailored their design to maximize performance in their geographic region. Does the uniqueness of each lathe system really fit all the world applications? Is it really cost effective to simply apply the different veneer lathe technologies across geographic borders? The answer is NO!

11:05-11:30 a.m.

Smart Material Handling – Good designs Are NOT More Expensive

Tim Brown, Business Development Manager, Biomass Engineering & Equipment

This presentation educates you about the latest improvements and how to apply them to your biomass material handling challenges. It looks at smart vs. dumb designs; shows that good designs are flexible, reliable, redundant and therefore more reliable; shows that when the total installed cost is considered, good designs are cheaper; shows why material handling “must” be a part of the integrated plant design rather than an afterthought; and looks at the long-term operational cost savings of good designs.

11:35-Noon

Robotics in Wood Products

Jeremy Goebel, Sales Manager, Con-Vey

In an industry that is in need of automation, how do industrial robots fit into manufacturing of wood products? Jeremy explores some of the areas Con-Vey has been able to fill this need and where Con-Vey expects it to go in the future; as well as how robots can increase productivity and alleviate some of the challenges with finding a stable work force.

AFTERNOON KEYNOTERS SESSION ROOMS B-C

1:30-1:35 p.m.

Remarks and Remembrance

Dan Shell, Senior Editor, Panel World

1:40-2:05 p.m.

The RoyOMartin Journey to a World Class Safety Culture

Terry Secrest, Executive VP of Manufacturing and Product Sales, RoyOMartin



Roy O. Martin, Sr. founded his family business in 1923 and began what would become a nearly century-long journey in timber and wood products. Throughout the years, the Martin family has operated pine and hardwood sawmills, flooring plants, treating, OSB, and plywood facilities, and, most recently, a timbers mill. The company, now known as RoyOMartin, remains family-owned and continues to operate with the strong set of values set forth by its founder. Although one of the most successful forestry and wood products manufacturers in the South, RoyOMartin—like many others in this industry—has not always held safety in the highest regard. In fact, as the company was gaining momentum as the premier producer of OSB, plywood, and pine lumber in the early 2000s, that success came at a cost. Hear how significant events set the organization on a different trajectory, and how for the past 15 years RoyOMartin has undergone a dramatic shift toward an award-winning safety culture.

2:10-2:35 p.m.

20 Years, 8 Months, and 17 Days...But Who's Counting?

Jerry Uhland, CEO, CalPlant I



A chronological review of the project that wouldn't go away. Jerry, who is co-founder and CEO of CalPlant I, LLC, provides a summary of the events that took place during a two-decade struggle to bring the world's first rice straw-based MDF project to fruition: from the early R&D years, a seven-year span with Metso, surviving the Great Recession, the transition from Metso to Siempelkamp, the escapades with equity investors, a presidential election that almost immediately saw \$28 billion flee from the safe-haven bond market to the equities market, and finally a financial closing in June 2017. The presentation includes a look at the two-plus-year construction phase and ensuing plant startup in 2020.

CONCURRENT SESSIONS PROJECT IMPLEMENTATION (ROOM B)

3:05-3:10 p.m.

Moderator Remarks

Bijan Shams, President, Cogent Industrial Technologies

3:15-3:35 p.m.

We Know a Thing or Two Because We've Seen a Thing or Two

Tom Lepak, VP Business Development, Casey Industrial

Ever wonder why some industrial projects flounder while others succeed? Lessons learned during Casey Industrial's 82-year history of industrial plant construction have identified project execution attributes which should be avoided and those which should be mandatory. Yes, it's good to be lucky, but implementing the right elements should help lessen and even eliminate speed bumps as you begin your next capital project.

3:40-4:00 p.m.

Using Knowledge Management Initiatives to Achieve Successful Project Implementation

Justin Price, Principal, Evergreen Engineering

This presentation aims to analyze different influencing factors to knowledge management initiatives in the project companies choose to execute. It presents a model of critical factors, which have deep impacts for failure or success of projects. Based on literature and the survey-based research results, it presents the most significant barrier for successful initiatives in projects. It highlights key metrics for developing successful projects and how these metrics can be tracked through the lifecycle of the project.

4:05-4:25 p.m.

Project Execution – Modern Tools and Classic Principles

Scott Stamey, Vice President/Sr. Project Manager, Mid-South Engineering

Good project execution principles are rarely new, but the tools we use to plan and execute difficult projects have improved drastically over the years. This presentation gives a brief overview of some of the new technology being used to reduce risk, improve quality, and speed up project delivery. Scott looks at examples of how these modern tools and classic principles have been put to use on complex projects.

4:30-4:50 p.m.

Relocating an Energy Plant: How, and Why Engineer It?

Tom Wechsler, President, Wechsler Technologies

Typically used equipment relocation in the board industry has been limited to major equipment such as presses and individual pieces of machinery. Moving an entire energy plant has been more of a challenge, due to the higher degree of difficulty in making salvaged components usable. As such, this effort poses unique logistics and engineering challenges. Tom discusses an existing biomass fired energy plant, located at a closed North American OSB mill, that was acquired for relocation to a North American lumber mill. The plant consists of a complete combustion and thermal oil energy recovery system rated at over 100 mm Btu/hr output, associated buildings, feed systems, and control systems. The salvaged "system" was adapted to a sawmill operation with an option for supporting a small pellet producing mill. The timeline from initial "groundbreaking" (i.e. takedown) to full operation was 10 months. Tom focuses on the importance of planning and engineering in such an effort, and examples of successes and pitfalls within the project.

WOMEN IN MANUFACTURING (ROOM C)

3:10-3:35 p.m.

A Look into Self-Growth, Working Outside the Norm and Mentoring Future Leaders

Michelle Driscoll, Technical and Environmental Manager, Corrigan OSB LLC

The history of women in manufacturing is well documented from WWII when droves of women worked on shop floors to fill the needs of a country at war. Fast forward 75 years, women account for less than one-third of talent in manufacturing workers. Women still remain an untapped talent in the manufacturing workforce. But why? The growth of women in today's manufacturing roles can start from the oddest of beginnings and can become a viable, exciting and lucrative career.

3:40-4:05 p.m.

If You Can See Her, You Can Be Her: Raising the Profile of Women in Manufacturing at Georgia-Pacific

Anna Umphress, Senior Director, Business Unit Communications, Georgia-Pacific

Georgia-Pacific launched a communications initiative that celebrates women across the company in an effort to show current and future employees that they can achieve similar success. Anna describes how the idea started and shares examples of women in the company's building products business who have been highlighted.

AIR EMISSIONS TREATMENT (SPRUCE ROOM)

3:10-3:35 p.m.

Advancements in WESP Design for Dryer Particulate Control

Rodney Schwartz, Vice President Sales & Business Development Americas, Dürr Systems

Dürr went out and spoke to customers about what they liked and didn't like about current WESP designs and operation, brought the information back, and is now ready to introduce a new WESP product addressing the feedback it received. Rodney highlights specific design enhancements, and once again reinforces the power of utilizing a to-scale pilot unit to prove out the concepts and ideas before bringing them to the market.

3:40-4:05 p.m.

Base-Metal Catalysts in the Board Industry: Continuing Application Experience

Dr. Grigori Bunimovich, Owner and COO, Matros Technologies

Regenerative thermal oxidizers are customarily used for removal of low concentrated HAPs and VOCs emitted after wood industry dryers and presses. Loading thin layers of catalyst above the RTO ceramic media can dramatically reduce the unit operating temperature and fuel consumption. Additional benefits include reduction in NOx and CO2 emissions. This presentation reviews decade-long experience with applications of base-metal catalysts in wood industry RTOs and RCOs. The catalysts contain low-valence manganese oxides as active component rather than more expensive precious metals. Operating of commercial units installed after MDF, plywood and veneer plants has demonstrated catalyst durability to 11-12 years and longer. The original catalyst charges loaded in 2008 have been continuously meeting the efficiency requirements. This presentation covers case studies at MDF and plywood plants. It describes a complete service cycle for the catalyst including startup, performance monitoring via laboratory testing of catalyst samples and RCO field tests, catalyst regeneration via bakeout, RCO temperature corrections after long-term operations, and catalyst replacement.

4:10-4:35 p.m.

Forty Years of Wood Dryer Emission Control – Where Have We Been, Where Are We Going?

Steven Jaasund, Geoenergy Products Manager, LDX Solutions LLC

It has been nearly 40 years since the first wet ESP was installed on a rotary drum OSB dryer. Since that time there has been tremendous growth in the wood products industry. Along with this growth there have been many changes in emission control requirements and technologies. These changes in demand and response have come with many improvements and lots of disappointments. Steve reviews this history and discusses his view of what the future holds.

SCANNING TECHNOLOGIES (Pine Room)

3:10-3:35 p.m.

The Total View of Board Quality by High-Resolution Ultrasonic Linear Array Scanning Technology

Konrad Solbrig, Head of Technology Wood-Based Composites, Electronic Wood Systems

The application of ultrasonic systems for the detection of delaminations, blows and voids is well-established for different kinds of wood-based composites. Beyond blow detection for panel grading, ultrasonic devices are beneficial tools to run the production at maximum output while keeping high panel quality. However, the requirements on such inspection systems are increasing to consider wide product ranges (panel thickness and density), high production speed, and small defect sizes. Now, a new generation of blow-scan system is introduced, called the BEAST (Board Evaluation ultrasonic linear Array Scanning Technology). The panel inspection device comes with up to 150 sensor elements with a diameter as small as 1 in. (25.4 mm) each. The unique ultrasonic transducer was developed in collaboration with an acoustic sensing expert. As a key feature of the device, the inspection channels are arranged in a linear array with a sensor pitch down to 1 in. corresponding to the pixel pitch of a line-camera. However, this is just the spatial resolution across the panel. Along the production direction, high scanning performance provides an equivalent resolution down to 1 in. complete with multiple oversampling. Furthermore, this new generation of ultrasonic technology features self-adjusting scanning parameters based on recipe information to provide consistently high measuring performance along a wide production range.

3:40-4:05 p.m.

3-D ParticleView: Three-Dimensional Particle Measurement

Torben Marhenke, Research and Development, GreCon

An important aspect of cost-efficient production and complete process monitoring is the measurement and evaluation of the wood structure elements (fibers, particles, etc.). Common approaches fall short due to time expenditure, incomplete information feedback and large deviations in thickness and width determinations. An innovative approach aims at depositing individual particles on a conveyor belt and measuring them three-dimensionally using a line laser and a camera system. The measurement of approx. 1000 particles takes place within approx. two minutes without contact and has a high reproducibility due to the elimination of the operator involvement and measurement of the particles on a plane. The result is based on information on length, width, surface, thickness and volume. On the basis of these parameters, the service life of the knife ring flaker can be adjusted more effectively than via the power consumption, thereby the sieve losses can be reduced. Initial investigations of the particle dimension over the service life of a knife ring shows a clear change in the particle geometry. It was found that the ratio between the width and thickness of the particle is the best parameter to describe the wear of a knife ring flaker. The relationships between particle geometries and mechanical plate properties allow predictions to be made about the subsequent strength values. The data can also be used to further improve statistical or analytical prediction models. Furthermore, the surface and volume data can be used to optimize the glue requirement.

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FRIDAY, MARCH 13 MORNING KEYNOTERS SESSION (ROOMS B-C)

8:30-8:35 a.m.

Remarks and Introductions

Fred Kurpiel, Conference Co-Chairman; President, Georgia Research Institute

8:40-9:05 a.m.

Dynamics in Wood-Based Panels and Engineered Wood Products—Opportunities and Challenges for the North American Industry

Frank Goecke, Director, AFRY Pöyry



Changes in building regulations and a positive macro-economic outlook make the North American market attractive for new investments in wood-based panels and engineered wood products. Upgrading the existing asset base offers additional opportunities for many producers in North America. It will be essential to remain competitive, considering that new investments in production equipment will potentially bring cost advantages compared to existing equipment with a considerable technical age. New investments in furniture, flooring or door production would also drive panel demand for composite panels. Product substitution for substrate panels and surfacing materials would also provide upside demand potential for composite panels. The future supply/demand balance will lead to changes in the industry structure. Industry consolidation is likely to continue and it remains to be seen which players will be the likely “winners” or “losers.” Ultimately, what will the North American WBP and EWP industry look like by 2025?

9:10-9:35 a.m.

Research and Development of Isocyanate-Free and Formaldehyde-Free Cold-Set Wood Adhesives

Kaichang Li, Professor, Chemical Engineering, Oregon State University



Thick wood-based composites such as cross-laminated timber, glulam, and laminated veneer lumber are produced with a cold-set adhesive via a cold-press process. Resorcinol-formaldehyde, phenol-resorcinol-formaldehyde, melamine-urea-formaldehyde, and polyurethanes are the currently used cold-set wood adhesives. They are derived from carcinogenic formaldehyde or toxic isocyanates,

and may release hazardous air pollutants during the production and use of the wood-based composites. Oregon State has recently developed two formaldehyde-free and isocyanates-free cold-set wood adhesives from epoxy resins for production of exterior plywood panels. All plywood panels that were made with the adhesives were evaluated for their shear strengths and water resistance in accordance with the American National Standard For Hardwood And Decorative Plywood/Hardwood Plywood and Veneer Association for exterior plywood, and met the industrial property requirements for exterior applications. In this presentation, Kaichang reveals the compositions of the adhesives and the critical procedures of making the adhesives, and discusses the structural requirements for each component of the adhesives and adhesion mechanisms. He presents and discusses the pot-life and the viscosity of the adhesives, and optimum cold-press conditions for making exterior plywood panels. He also discusses efforts at lowering the overall cost of the adhesives.

9:40-10:05 a.m.

Why Specify North American Decorative Hardwood Plywood and How?

Kip Howlett, President, Decorative Hardwoods Association



It's natural. It's sustainable. It's legal. It's durable. It's North American. Specify to a standard. Specify it's tested and safe for the end user. Ask for the proof point. Unfair trade has completely distorted the market price structure due to the globalist free traders policies of open markets at any cost without fully measuring the opportunity costs of the next best choice.

CONCURRENT SESSIONS MASS TIMBER DEVELOPMENTS (ROOM B)

10:30-10:50 a.m.

Global Breakthrough of CLT—Markets and Technologies

Dominik Wolfschütz, Market Research Specialist, German Woodworking Machinery Manufacturers Assn. (VDMA)

Globally, cross-laminated timber (CLT) has finally made its breakthrough with new capacities not only in North America but also in New Zealand, Japan, China, Russia and throughout Europe. The future of the industry seems bright but as in every new business there are several pitfalls - especially when it comes to production. There are several manufacturing concepts in the market. The discussion focusses on the global capacities and the most promising systems and will highlight some of the most technologically advanced lines in the world.

10:55-11:15 a.m.

A Manufacturer's Review of Supply Chain Challenges and Opportunities for the CLT Market

Charles Gale, Strategic Business Analyst, SmartLam North America

SmartLam North America has announced expansion plans for its production of cross-laminated timber throughout North America. Charles provides background on the company and its aggressive dive into the North American landscape. He also addresses related lumber standards and feedback from a customer perspective. In addition he relays results of a survey of southern sawmill companies and their degree of knowledge and awareness of cross-laminated timber and mass timber products.

11:20-11:40 a.m.

Mass Timber Earns Its Place: A Great Solution for Many Reasons

Scott McIntyre, North American Business Director Performance Adhesives, Forest Products Div., Hexion

One of the most effective ways to create a market for something new is to find a big problem and provide a big solution for it. To do that you need to create alignment with the consuming public around the solution. You then must identify the gatekeepers that are also the decision makers that agree to your solution. Great stories about solutions come with a great set of data that support it. We all know mass timber can be a great solution to solve the issue of the world's problem of constructing sustainable shelter—it's 100% solar powered, renewable, recyclable, it sequesters carbon and makes oxygen. So, what are the problems we can solve? We must address the public perception of flammability, fire resistance and strength in mass timber buildings. Scott touches on this and more during his presentation on galvanizing the industry to rally for the use of mass timber.

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11:45-12:05 p.m.

Detection of Internal Lack of Bond Defects in Wood Fiber Based Products

Clyde Steffens, Principal, Automation Industries

The nondestructive testing of wood fiber based products began in 1973 with the successful implementation of air coupled ultrasound by Trienco, Inc., developed at the request of the American Plywood Association. Technical aspects associated with the use of ultrasound in numerous materials and the changing requirements that came with the advent of LVL, PSL300 are detailed. The nondestructive testing of CLT products for internal lack of bond defects requires a departure from the methods used for plywood, LVL, etc. The fundamental reasons for this are explored.

FIBER DEVELOPMENTS (ROOM C)

10:30-10:55 a.m.

Keeping Structural and Decorative Wood Products Relevant: Development of Alternative Fibers, Products, and Processes

Richard Baldwin, CFO/Treasurer, Oak Creek Investments

The North American wood and wood products industry has declined for at least three decades because of substitution by non-wood products, increased imports from China and elsewhere, misplaced environmental concerns, and often sluggish construction activity. This presentation analyzes current industry dynamics and developments that will keep wood products relevant. Given that wood producers collectively had invested in a return to the historical housing start average, product prices are low and some inefficient producers have ceased production. Instead of merely reacting to uncontrollable markets, wood products producers can take control of their own fates by finding lower cost fibers, innovating new products, and developing more efficient processes. The presentation considers new products now commercially manufactured, or almost ready to be made, that can expand the market for structural and decorative wood products.



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11:00-11:25 a.m.
Demonstrating the Value of Closed-Loop Biomass in Hybrid Panel Board Production
Wendy Owens, CEO, Hexas Biomass

In the past several decades, researchers and commercial manufacturers have investigated the use of closed-loop biomass crops for panel board production to supplement or replace wood. One of the most promising of these crops is giant reed. Giant reed is perennial and fast growing, with high yields year-over-year. It is highly pest-resistant, grows in different climates and soil types, tolerates drought, and has low ecological demand. Wendy discusses how researchers have produced high-quality, giant reed particleboard, MDF, and HDF with and without a resin binder. Also discussed is Hexas Biomass' current demonstration project to use wood and giant reed in the production of hybrid particleboard at commercial scale production facilities. The demonstration project's goal is to produce hybrid particleboard with a long-life expectancy and high value as a commercial product. The project is expected to show that together wood and giant reed will produce hybrid particleboard which performs as well as or better than wood-only boards. Further, combining giant reed with wood is a means for alleviating wood scarcity in specific locations caused by environmental degradation while providing significant cost savings over wood-only boards in a sustainable manner.

11:30-11:55 a.m.
The Emergence of Bamboo Building Materials in the 21st Century.
Avery Chua, President, dasso USA

Bamboo is a green sustainable renewable natural resource. It is the fastest growing plant in the planet. Bamboo forest and plantation have their benefits and contributions to the conservation of mother earth. Bamboo stands in its natural environment absorb more CO₂ per hectare than forested plantation. Its usage in the building industry as a raw material is still at its infant stage but is set to grow. Bamboo processing technology has grown from first generation to third generation. The industrialization of bamboo processing allows for bamboo to be used as high quality and long-lasting building materials. With continuous innovations and developed new technologies, bamboo usage has migrated from interior usage to exterior usage. There are numerous completed projects that see bamboo fiber replacing natural wood fiber as building material.



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Lignor CLST Test results. vs. CLT's

	Wood species	Thickness inch / mm	Major Strength Direction E (10 ⁶ psi)
CLST® USA*	Aspen LSL 1.5E	5 / 127	1.3
CLST® AU**	E. globulus ESL® 2.3E	5.1 / 130	1.78
CLST® AU***	E. globulus ESL® 2.3E	1.18/30	2.1
CLST® Chile*	E. nitens ESL® 1.2E	1.18/30	1.23
CLT E1	Standard		1.7
CLT E3	Standard		1.2

* Test at InnoTech Alberta

** Test at University of Technology Sydney

*** Test 5 Layer panel, Dieffenbacher R&D Centre Eppingen Germany.

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EWP PERFORMANCE (PINE ROOM)

10:30-10:55 a.m.

Stranding Mainly Young Eucalyptus to Produce, Cost-Effectively, a Portfolio of Superior Performance Engineered Wood Products and Solutions, Including Cross Laminated Timber

Graeme Black, CEO, Lignor

Lignor's patented products/processes have innovated strand-ing technology, designed for softwoods, to develop arguably the world's strongest portfolio of engineered wood products mainly from Eucalyptus. Lignor uses younger/faster growing trees versus conventional EWP—in the case of Eucalyptus about one-tenth of harvest age. Lignor's strands are holistically treated, improving resistance to termite/rot/fungus/fire attacks versus conventional envelope treatments.

11:00-11:25 a.m.

Effective Protection of Engineered Wood Products from Termite Attack

André Siraa, Global EWP Technical Manager, Lonza Wood Protection

Termites are a growing problem in the United States with the habitat range of the Formosan subterranean termite steadily expanding. As a result, the potential risk of damage to wooden structures also increases. Options to protect wood products from termite attack vary, with the treating of the wood product a most desirable option. This low impact approach can protect wood products for prolonged periods of time. This avoids the need to prematurely replace the wood or rebuild the structure, and, over the extended life of the wood product, the carbon sequestered during the tree's growth cycle is locked up, potentially assisting in the fight against climate change. This presentation discusses the role of biocides in the preservation of engineered wood products and the benefits attained. Also described are examples of effective biocide use in engineered wood products.

11:30-11:55 a.m.

Scrimber: How to Make Structural Material from Any Kind of Wood

Stefan Zöllig, Co-Owner, Timber Structures 3.0

Timber construction is booming. At present, enough wood is growing back in our forests. But what if timber construction becomes so successful that suddenly whole cities are built of wood? What if we no longer have enough wood? Then it is time to process trees more efficiently into building material. Today, the yield from tree to timber is only about 30%. Stefan presents a technology that is decades old and refined. He asks the question: What if we rolled all the trees and reassembled them so that we had 100% yield? Scrimber technology could be the answer.

PROCESS IMPROVEMENTS (SPRUCE ROOM)

Developments in Thermal Oil Pump Room Safety

10:30-10:50 a.m.

Michael York, Systems Engineer and Product Manager, Wechsler Technologies

In a board plant operation, one of the highest fire hazard areas is the thermal oil pump room. The area most vulnerable to failure is the mechanical seal of the thermal fluid pump where a pump room fire is easily initiated. Once started and spread, it can easily overcome the capability of conventional area protection systems. To protect against this, the pump area and the pump itself must be monitored to provide prevention, early detection of failure, and backed up by an effective fire suppression system to rapidly extinguish a starting fire before it has a chance to spread. Conventional methods have not provided an integrated approach to provide this level of protection. Wechsler Engineering has developed methods and its own PumpGuard system, designed specifically for high temperature thermal fluid pumps, to provide an added layer of protection beyond conventional methods in a low cost, compact and easy to install package.

10:55-11:15 a.m.

The Impact of Friction on Energy Consumption: A Case Study from the Wood Processing Industry

Steffen Bots, Technical Manager, Addinol

It is well known that friction creates wear and causes heat, which results in the loss of energy. Press lines place high requirements on the lubricants used at belts, bending and rolling rods as well as chains. In addition, wood processing plants generally work in a dusty, humid and chemically aggressive environment. Lubricants are necessary that are blended together from a variety of different chemical components. The presentation shows some key aspects of the chemistry, explains working principles and test methods in order to evaluate the performance of the lubricant in the laboratory. As the presses have a sophisticated control system there are also a lot of data available about temperatures, power consumption of electric motors and lubricant consumption. For the case study discussed here this information has been collected over a long period. The presented data shows that the lubricant has a significant impact on energy consumption. In some areas a reduced power consumption of almost 30% could be observed.

11:20-11:40 a.m.
High Resistance Wear Boards
Bert Baumann, Co-Owner & Sales Manager, BKB Industrial

Most of BKB's materials are used in plants with multi-opening presses. They also supply very limited amounts of material for in-feed and outfeed areas for plants with continuous presses. Bert addresses several case studies for BKB stranders back stops, keeping non-wood material out of the raw material stream; and forming line panels (a medium density panel developed specifically for this application), and addresses other uses as loader pallets, unloader cage rails, return lines, chain conveyor flights.

11:45-12:05 p.m.
The Lifeblood of Your Plant
Peter Smyth, Industry Sales Manager, C.C. Jensen

As much as 80% of all machine failures are caused by contamination in the oil. Pro-active methods for dealing with this can save considerable costs over time. Peter discusses the damage that can be done by oil contamination and ways to prevent it and how to remove it. Through several industry specific case studies Peter covers best practices in oil handling, storage and sampling as well as how to use oil analysis to your advantage. The most effective methods to keep contaminants out of your oil in the first place are explained. He also looks at the biggest contaminants and how to identify if you have problems and the latest techniques for dealing with issues if they arise, via the latest technology available in oil filtration. Oil is an asset, not a consumable. You should leave this presentation with the knowledge of how to best take care of that asset and save your company money.

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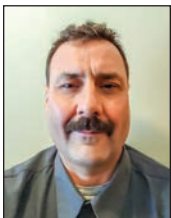
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Rich Baldwin CFO/Treasurer Oak Creek Investments



Rich Baldwin has more than 25 years of analytical and supervisory experience across the forest products, retail and consumer products, and insurance industries. Currently Rich is CFO/Treasurer of Oak Creek Investments, consultant for Georgia Research Institute, and Visiting Professor at Southwest Forestry University in Kunming, Yunnan Province, China. Rich regularly consults on forest products projects in the U.S. and overseas. From 2013 to 2016, as consulting vice president of Strategic Planning for Winston Plywood & Veneer in Louisville, Miss., Rich organized the business plan for the \$110 million mill that began production in October 2016, periodically updated the business plan as the project advanced, and participated in debt and equity capital raising efforts. At various times, Rich has served in controller, treasury, and analyst positions at forest products companies in the Southeastern U.S., Western U.S., Latin America, and Southeast Asia. Rich continues to author or co-author journal articles related to wood products that are published in *Panel World*. He holds a B.S. in Finance and Chemistry from the University of Oregon and an M.B.A. in Investment Analysis from Boston University.

Norbert Baumann Co-Owner & Sales Manager BKB Industrial



As part owner of BKB Industrial, Bert has been working in the forest products industry since graduating with a B.A. from Flemming College in Peterborough, Ontario in 1989. BKB represents Delignit, a specialty hardwood plywood manufacturer. BKB supplies standard, medium and high density panels to many industries, including panelboard plants. BKB supplies most panel manufacturers and some OEMs in Canada and the U.S., while operating a warehousing and machining facility in Quebec from where BKB services most of its clients.

Bernd Bielfeldt Division Director Technics and Production Americas Egger Americas



Bernd has been working in the wood-based panel industry since 1994. He joined the Egger Group in June 2018 in the newly created role of Division Director Technics & Production Egger Americas and is responsible for setting up the operation of Egger's first manufacturing plant in the U.S. in Lexington, NC, as well as for the integration of the plant in Argentina acquired by Egger in 2017. Previously, Bernd was director Sales and Technics at one of the main machine suppliers to the industry. Prior to this he was responsible for the construction and operation of Egger's first plant in Russia, and before that was head of project management at Kunz Group with the responsibility for the construction of several wood-based panel plants in Europe and Canada. Bernd obtained a mechanical engineering degree at Carnegie Mellon University in Pittsburgh and EPFL, the Swiss Federal Institute of Technology.

Graeme Black CEO Lignor



Graeme Black, a Fellow of the Australian Institute of Company Directors, holds an M.B.A. from the London Business School. He has worked in the timber/agribusiness sector since 1985, when he became a director of Craigpine Timber in New Zealand, which his family has owned since 1923. Craigpine was the first company in Australasia to become FSC accredited in 1997, four years after FSC was established. Since 1988, Graeme has also been a director of Simmonds Lumber Pty Ltd, one of Australia's leading independent wholesalers and distributors of globally sourced timber products. In 2007, Simmonds became the first timber company in the world to introduce DNA profiling to prove provenance of its timber, in this case popular Asian tropical hardwood, Merbau. This Chain of Custody has expanded exponentially since 2007. It is used by the governments of the U.S. and Germany. The Dept. of Justice used it in 2016 to prosecute Lumber Liquidators. Graeme has been a Lignor director since 2005, when his family realized the potential of engineered Eucalyptus. His family had previously been involved in particleboard and MDF plants in the 1970s and 1980s.

Steffen Bots Technical Manager Addinol



Steffen started his career at the independent lubricant analysis laboratory OELCHECK as a diagnose engineer. Later he became responsible for the technical department and ultimately director for the customer service and sales. After 14 years he left the company and joined Addinol as technical sales expert focused on the APAC region. With more than 16 years of industry experience he is a technical expert in oil analysis, lubricants, condition monitoring and tribology with a lot of practical experience from a variety of applications. Currently Steffen is also serving as member of the board of directors for the Society of Tribology and Lubrication Engineers. Steffen has a degree in industrial engineering from the University of Applied Sciences of Rosenheim and a master's degree in Business Administration & Engineering from the University of Applied Sciences of Munich.

Tim Brown Business Development Manager Biomass Engineering & Equipment



Tim Brown is the Business Development Manager for Biomass Engineering & Equipment. Tim has 15 years of experience in the forest product industries. He has a B.S. in Education and an A.S. in Engineering Technology. Tim leads the sales efforts to identify new clients, manage the company's trade show program, and leads the lunch & learn program designed to educate North American engineering firms and large forest product companies about company products. Parent company Veneer Services and Biomass Engineering and Equipment are supplying machinery to a wide range of biomass processing facilities as well as wood pellet mills, traditional lumber, panelboard, and veneer operations.

Dr. Grigorii Bunimovich
Owner and COO
Matros Technologies, Inc.



Grigorii has been involved in reaction engineering research for more than 25 years. He was a key engineering specialist in Dr. Yuri Matros' team involved in pilot tests and commercialization of reversed flow reactors for sulfuric acid production and control of volatile organic compounds. Recently he has been developing a new catalytic system for hydrocarbon, CO and NOx removal after diesel engines operated with natural gas or diesel fuels. Grigorii is a graduate of the Technical University of Tomsk and has a M.S. in Chemical Engineering. He obtained his Ph.D. in Chemical Engineering in Dr. Matros' department at Boreskov Institute of Catalysis at Novosibirsk, Russia. Since 1993 he has worked at Matros Technologies where he serves as the director of catalyst applications. Grigorii holds four U.S. and several foreign patents.

Steve Carroll
Vice President of Operations
Arauco NA



On his way to becoming Vice President of Operations for Arauco NA, Steve has spent 36 years in a diverse array of positions from forester to internal audit to continuous improvement, and in various levels of management positions. While mostly in particleboard and MDF, Steve spent a couple of years in OSB, and lived for five years in Scotland managing three panelboard plants. All in all, Steve has experience in 14 different positions in seven states and two countries and has moved with his wife, Carole, a total of 13 times. They now reside in South Carolina where Steve manages the Arauco North America Particleboard, TFL, Paper Treating, and Engineering mills and departments from Arauco's Rock Hill office.

Avery Chua
President/CEO
dasso USA



As President/CEO of dasso USA, Avery is a Malaysian living in Atlanta. Prior to moving to the States, Avery lived in China for 14 years. He speaks several languages and dialects including English, Malay and Mandarin. He is a forester by academic training and a wood/bamboo industrialist by profession. Avery has extensive experience in the wood-based panel & related industries through working as a wood technologist. He participated in developing and building two MDF plants, a glue factory for MDF, a wood-coating factory and several bamboo production plants. This experience of working across various fields in wood-bamboo fibers, glue and coatings manufacturing & applications enriched his technical skill. Avery holds a Bachelor of Science in Forestry with a major in forest resource management from Agricultural University of Malaysia (UPM) – presently known as University Putra Malaysia. He joined dasso in 2005. He is currently a Bamboo Ambassador spreading the use of bamboo technology as building materials.

Ashlee Cribb
Senior Vice President – Chief Commercial Officer
Roseburg Forest Products



As Senior Vice President-Chief Commercial Officer, Ashlee oversees the sales, marketing and logistics functions for Oregon-headquartered Roseburg Forest Products, and leads a large supply chain transformation initiative and related projects. Her professional experience spans several industries, including wood products, chemicals, adhesives, minerals, textiles and packaging. She joined Roseburg in January 2017 as the business director for solid wood products and became a vice president in 2018, assuming her current role in 2019. Ashlee previously worked at Georgia-Pacific, holding various positions, including business manager for wood adhesives and vice president of the industrial packaging business. She has an M.B.A. from Washington University, St. Louis and a bachelor's degree in chemical engineering from the Georgia Institute of Technology. She currently represents the industry as a board member of the APA and the Pacific Lumber Inspection Bureau. She also serves on the board of the Eugene (Ore.) Symphony Assn.

Michelle Driscoll
Technical and Environmental Manager
Corrigan OSB



Michelle recently became Technical and Environmental Manager at Corrigan OSB, the new Roy-OMartin OSB facility in Corrigan, Texas. Previously she was production manager there, joining Roy-OMartin in 2016. She worked five years for Georgia-Pacific at its Diboll particleboard facility, first as technical director and then production manager. Before that she spent nearly 12 years with Temple-Inland at Diboll, initially as a research chemist and then as continuous process improvement manager. She gained her Bachelor of Science in Biology at Augusta State University and a Master of Science in Wildlife Ecology/Fisheries at Mississippi State University.

Charles Gale
Strategic Business Analyst
SmartLam North America



Charles is currently Strategic Business Analyst for SmartLam North America working on business process solutions for manufacturing locations in Columbia Falls, Mont., Dothan, Ala., and Galloway, BC to benefit the supply chain and end customers in the mass timber industry. Previously he was principal consultant at Doug Fir Consulting LLC working directly with SmartLam and co-authored several North American mass timber supply chain studies. Prior to that he was a manufacturing business analyst and sales and ops planner at Stimson Lumber Company. Charles has published several technical reports on the macroeconomic wood products industry in the Northwest as well as provided foundational research. He helped secure \$12.3 million in stimulus funds for a Wood Product Revolving Loan Fund during 2008 to retain/revitalize Montana's distressed wood products industry during the great recession. He serves on the board of the Forest Product Society (FPS) as the Northwest regional representative, he is also part of the Sustainable Forest Initiative's (SFI's) task force, as well as an active member of Society of American Foresters. Charles holds a B.S. in Resource Conservation with an emphasis on Forest Resource Economics, and a minor in Climate Change Studies from the University of Montana W.A. Franke College of Forestry and Conservation.

Jeremy Goebel Sales Manager Con-Vey



Jeremy is the Sales Manager at Con-Vey in Roseburg, Ore. He received his B.S. from Oregon State University in Construction Engineering Management. Following this he spent two years in the Cincinnati area in construction estimating and project management before returning to his hometown of Roseburg to work in sales for Con-Vey. Jeremy has now been with Con-Vey for more than six years and man-

ages a team of sales engineers and sales representatives. Over his tenure at Con-Vey he has become very knowledgeable on custom automated equipment with a focus on material handling and industrial robotics.

Frank Goecke Director AFRY Pöyry



Frank joined Pöyry Management Consulting in January 2012 and was promoted to Director in October 2018. Today Frank is responsible for the Wood Products & Surfaces Division globally, with offices in Munich, London, Helsinki, Moscow and Madrid, in addition to overseas locations in Atlanta, Curitiba and Beijing. Frank has deep industry insights and project expertise in wood-based panels, surfacing

materials and associated industries along the decorative and structural value chain. He is responsible for project sales and project supervision. He focuses on corporate and product strategy, feasibility studies, due diligence, investment support and monitoring, mainly in Europe and North America. Frank studied wood science and economics at the University of Hamburg in Germany. Prior to Pöyry, Frank was the head of corporate strategy of a listed engineering and construction company in London.

Kip Howlett President Decorative Hardwoods Association



C.T. (Kip) Howlett Jr. is the President of the Decorative Hardwoods Association (formerly the Hardwood Plywood & Veneer Association (HPVA). He has served in that capacity for 11 years. DHA represents only North American manufacturers of hardwood plywood, veneer, and engineered wood flooring. HPVA develops national consensus standards for the industry.

Capital Testing (formerly HPVA Labs) provides laboratory testing and certification services. DHA promotes the products of its members and represents the industry in public policy venues. Kip was a vice president of the American Chemistry Council for 11 years. Previous to that he was with Georgia-Pacific for more than 19 years including the position of vice president of Environment and Government Affairs. He is a lawyer with a Doctor of Jurisprudence from Willamette University College of Law and a B.A. from The Johns Hopkins University in Baltimore. He resides in McLean, Va.

Steve Jaasund Geoenergy Product Manager LDX Solutions



A licensed chemical engineer, Steve is the Geoenergy Products Manager at LDX Solutions, located in Redmond, Washington. Steve earned a B.S. in Chemical Engineering from Lafayette College in Easton, Pennsylvania in 1970 and an M.S. in Engineering (Air Resources) from the University of Washington in Seattle in 1973. Since then Steve has pursued a career in air pollution control technology

working with manufacturing, consulting and emission control supply companies. He was a co-owner of Geoenergy beginning in the late 1980s and grew that company into a leader in emission control in the North America panelboard industry. He joined Lundberg in 2002 following Lundberg's purchase of Geoenergy, and today continues to manage the Geoenergy product line for LDX Solutions, which is the new name combining the Lundberg and Dustex operations.

Alan Knokey Vice President USNR



Alan is a 50-year veteran of the panel industry. He began his career with Coe Manufacturing in 1969. Alan remained with Coe until Coe was purchased by USNR in 2009. He is currently Vice President of the USNR panel products machinery line. Alan has been extensively involved in the design, manufacture of veneer lathe and drying systems for the world market.

Tom Lepak VP Business Development Casey Industrial



Tom Lepak has thoroughly enjoyed his 40-year career in the industrial construction industry. Much of that time has been spent serving building products manufacturers on projects across the United States and sometimes internationally. He is a licensed civil engineer with a M.S.C.E. in Construction Management from Purdue University. Tom joined Casey Industrial in 1988 after eight years with USG Corp. He

served as Casey's estimating manager for eight years, worked in business development for 22 years, and now supports the company with market and project analysis.

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Dr. Kaichang Li **Professor, Chemical Engineering** **Oregon State University**



Kaichang has had tremendous success in the development and commercialization of environmentally friendly products from renewable materials. For example, formaldehyde-free soy-based wood adhesives he invented have been used in commercial production of wood-based composite panels since 2004. He has more than 30 patents and more than 100 refereed journal papers. He has received a number of awards including the prestigious Presidential Green Chemistry Challenge in 2007 and Golden Goose award in 2017. Kaichang obtained a B.S. in Applied Chemistry in 1984 and M.S. in Organic Synthesis in 1987 at South China University of Technology, P.R. China, and a Ph.D. in Wood Chemistry at Virginia Polytechnic Institute and State University, Blacksburg, Va., in 1996. He was a postdoc in Biochemistry and Molecular Biology at the University of Georgia during 1996-1999 and became an assistant professor in 1999 and was promoted to full professor in 2010 in the Department of Wood Science and Engineering at Oregon State University. He has transferred his tenure home to the School of Chemical, Biological, and Environmental Engineering, College of Engineering at Oregon State University.

Mark Lindquist **Vice President - Operations** **Huber Engineered Woods**



Mark has served as Vice President - Operations of Huber Engineered Woods (HEW) since 2010 and he is responsible for Environmental, Health, Safety, Sustainability, Manufacturing and Engineering. He also served on the HEW Leadership Team. Mark joined HEW in 2002 as a press area manager and later that year was promoted to operations manager at Huber's manufacturing facility in Spring City, Tenn. In 2003, he was moved to Easton, Maine as plant manager. In 2005, Lindquist was again promoted and relocated to Commerce, Ga. as HEW's manufacturing manager overseeing plant operations and engineering. Mark has more than 30 years of progressive experience in the forest products and chemical industries. Mark has a Bachelor of Science from the University of Minnesota.

Torben Marhenke **Research and Development Engineer** **Fagus GreCon**



Torben has served as an engineer in research and development at GreCon going on six years. Previously he was a scientific assistant in the Piezoelectric and Ultrasonic Technology Research Group at the Institute of Dynamics and Vibration, Leibniz University, in Hannover. He received a Master of Science in Mechanical Engineering from Leibniz University, where he also earned his Bachelor of Science. He has long been involving in coaching youth sports, running marathons, and cooking up Italian and Asian cuisine.

Scott McIntyre **North American Business Director for** **Performance Adhesives, Forest Products Division** **Hexion**



Scott has been employed in the timber industry for 43 years, having held many roles over this period. He started his career in 1976 with Vanply in Albany Ore., and went to Willamette Industries for 13 years in supervision, quality control and operations management, meanwhile completing a Business degree. Scott went to Borden Chemical as technical manager for plywood, and then into sales management for seven years. Borden became Hexion Inc., and Scott became North American Business Director overseeing Performance Adhesives for Hexion FPD.

Wendy Owens **CEO** **Hexas Biomass**



Wendy is the CEO of Hexas Biomass LLC, a producer and distributor of non-wood biomass. She is a serial entrepreneur with experience across multiple industries. Hexas is her latest venture and combines her background in materials engineering with her experience in biotechnology. Wendy has led an advanced composite materials company, been an advisor to startup and mid-stage companies on commercialization of new technologies, and spent 14 years as an advisor to the US Secretary of Commerce and US Trade Representative on international trade policy as a member of an International Trade Advisory Committee. Wendy is a published author on a variety of subjects and has a Master of Art degree from Tufts University.

Justin Price **Principal** **Evergreen Engineering**



Justin is a driving force behind Evergreen. He has vast experience in engineering for the wood products industry and an innovative approach to engineering solutions. Justin's responsibilities include construction management; developing new or modified plant layouts; designing mechanical conveying systems, process equipment, and piping layouts; and preparing equipment specifications. Some of his major projects have been in the chemical, pulp & paper, and wood products industries. He is proficient in executing projects to satisfy client specifications and expectations and in meeting defined schedules, as well as cost and quality parameters. When not busy thinking of new engineering ideas, Justin can be found on his bicycle anywhere around the country or spending time with his family.



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Rodney Schwartz Vice President Sales & Business Development – Americas Dürr Systems, Inc.



Rodney is Vice President of Sales of Environmental Products for Dürr MEGTEC, a leading manufacturer of air pollution control and industrial drying equipment. Rod has more than 15 years of experience in engineering and engineering management, and 20 years of experience in sales and business development of air pollution control equipment, capture technology, and heat recovery systems. In his current position, Rod has overall responsibility for sales and business development for the Americas Region of Dürr's Clean Technology Systems business segment, and global responsibility specific to the wood panelboard industry. Rod has authored and presented numerous technical articles associated with air pollution control and energy recovery technologies. He received his B.S. in Agricultural Engineering from the University of Wisconsin at River Falls.

Bijan Shams President Cogent Industrial Technologies



Bijan is the founder and President of Cogent Industrial Technologies. From greenfield to modernization projects, industrial operations and facilities around the world leverage Cogent's operational technology solutions and project management services to achieve a safe, reliable and efficient operation. Bijan has extensive experience in the execution of technically large projects in wood industry. He has a bachelor's degree in Electrical Engineering and a Master of Science in Instrumentation & Analytical Science from the University of Manchester in England.

Peter Smyth Industry Sales Manager C.C. Jensen



Peter has been Industry Sales Manager for C.C. Jensen off-line filtration for more than four years. C.C. Jensen is a Danish company and world leader in the field of off-line filtration of lubricating and hydraulic oils as well as diesel fuel. Peter primarily focuses on the pulp and paper, bioenergy, panel and lumber, and hydraulic press industries. Peter has also spent several years in lubricant sales and consulting. He is a graduate of the University of Alabama and is MLA I certified.



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Konrad Solbrig **Head of Technology Wood-Based Composites** **Electronic Wood Systems**



Konrad's work is driven by his fascination with wood and x-rays. As EWS application engineer for measuring systems, it's his passion to develop practice-oriented solutions for engineered wood products and beyond. Prior to EWS, Konrad was acting as scientific assistant at Ostwestfalen-Lippe University of Applied Sciences, Germany, in the Laboratory for Timber Engineering, Products and Production. He was dealing with research topics in the field of radiometric investigations of wood-based composites by means of X-rays, neutrons and other non-destructive methods, where he still is a lecturer. Konrad completed his study in Wood Technology there in 2008 and added the master study in Production Management at the same university one year later.

Scott Stamey **Vice President/Sr. Project Manager** **Mid-South Engineering**



Scott has been with Mid-South Engineering for 10 years, currently serving as a Vice President and working out of their office in Cary, North Carolina. He has more than 20 years of experience in the wood products industry, primarily focused on engineered wood and pellet production. In that time he has worked in plant engineering, construction management, and consulting engineering roles. He obtained his bachelor's and master's degrees from NC State University in Mechanical Engineering and Forest Biomaterials, respectively.

Clyde Steffens **Principal** **Automation Industries**



Clyde has 50 years of experience in nondestructive testing applications engineering, research and development of nondestructive testing sensors, electronics, immersion and air coupled ultrasonic based systems, laser based and infrared based systems. He is a developer or co-developer of numerous nondestructive testing systems used in industrial, military, aerospace, nuclear and medical applications. He has developed internal defect detectors for wood fiber based panels, an Ultrasonic NDT system for LVL and similar thick materials, industrial laser thickness gauges and bond analyzers. He received a degree with emphasis in electrical engineering from the University of Colorado.

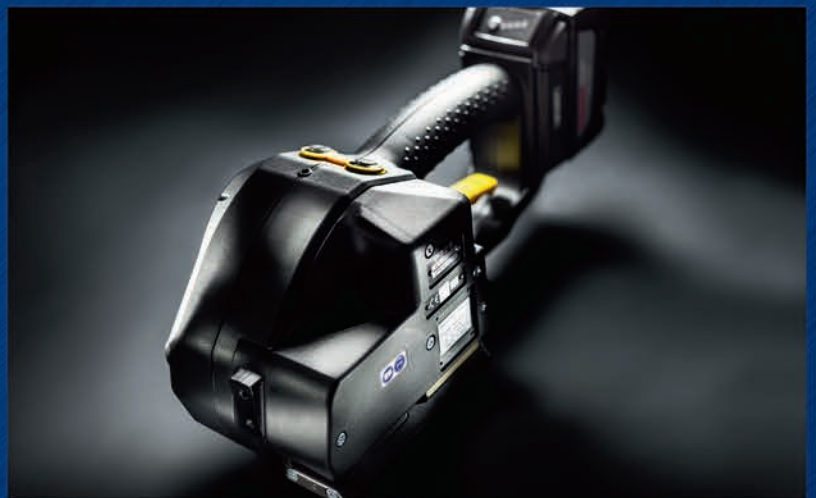
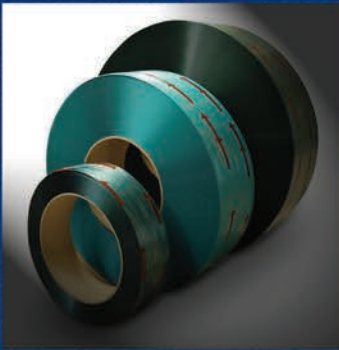
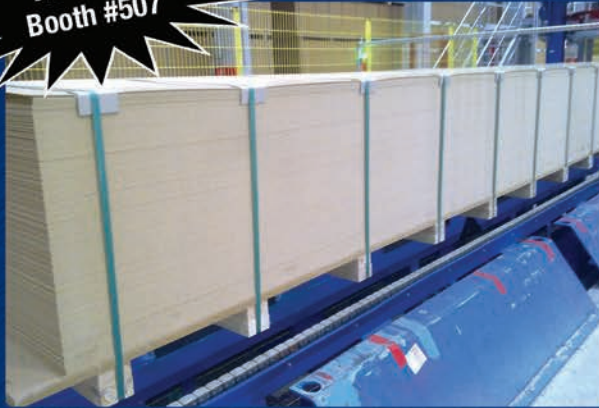
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Luciano Tiburzi Division Director Sales and Marketing Americas Egger Americas



Luciano has more than 25 years working experience in the wood based panel industry. For much of this time he was responsible for various positions within Masisa Group all over Latin America, and was CEO of Masisa Argentina before Egger's takeover of the operations in Argentina. Today Luciano is Director Sales & Marketing for Egger's Division Americas and is responsible for the introduction of the Egger brand to North and South America as the new plant in Lexington, NC prepares to present its product offerings soon. Luciano gained an M.B.A. from the Universidad Nacional del Litoral in Argentina, and a degree in chemical engineering from the same university. He has a certificate in business marketing strategy from the Kellogg School of Management at Northwestern University in the U.S. and completed the advanced management program at ESE Business School, Chile and IAE Business School, Argentina.

Jerry Uhland Co-founder and CEO CalPlant I, LLC



Jerry has been involved in the California rice industry for more than 40 years and for the past 23 years has been the driving force behind the CalPlant project. In the 1980s, Jerry developed a trade-secret process for gelatinizing starch in cereal grains and a first-of-its kind food processing and packaging plant operates today using this technology. He applied a similar science as an inventor of the patented rice straw-based medium density fiberboard (MDF) process while assessing alternate straw management and utilization methods after open field burning started to become restricted in California in 1991. Jerry holds a B.S. in Agricultural Science from California State University, Chico. He is uncertain why his wife Barbara of 35 years remains married to him after the wild CalPlant ride, and they celebrate three adult and successful children.

Anna Umphress Senior Director, Business Unit Communications Georgia-Pacific



Anna is responsible for communications and public affairs for Georgia-Pacific's more than \$20 billion businesses. She handles strategic communications for the company's Consumer Products Group and manages the team that provides strategic communications support for the Consumer, Away-from-Home, Building Products and Packaging & Cellulose business segments. She also oversees the team responsible for consumer engagement across a wide array of social media platforms for numerous well-known brands. Anna works with key business and trade media to promote Georgia-Pacific's brands and businesses to key customer and consumer audiences in the United States. She and her team handle a full array of communications initiatives to support product launches, strategic alliances, merger/acquisitions, community relations, environmental issues and crisis response.

Terry Secrest Executive Vice President of Manufacturing and Product Sales RoyOMartin



Terry serves as executive vice president of manufacturing and product sales for RoyOMartin. A native of Springhill, Louisiana, Terry is a chemical engineering graduate of Louisiana Tech University. He worked for International Paper for 18 years in various capacities including operations manager, manager of technical services and mill manager. He joined RoyOMartin in 2004. As vice president of OSB, a position he held for more than 13 years, he was responsible for as many as three OSB manufacturing facilities as well as corporate safety. Today as executive vice president he oversees two OSB plants, a plywood mill and a timber sawmills for RoyOMartin, which is headquartered in Alexandria, La. He has served on the board of several community groups including the Chamber of Commerce, United Way and Rotary Club.



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André Siraa
Global EWP Technical Manager
Lonza Wood Protection



André specializes in the glue-line treatment of engineered wood products. His 23 years of experience in the industry has seen him lead the EWP research team at Lonza New Zealand, developing and commercializing unique patented chemistry that is applied via glue-line step during the manufacturing process of EWPs. His achievement of standards-approved insect and decay protection of EWPs by treating during manufacture disrupted the traditional treatment methods used for LVL in the New Zealand market five years ago. André supports EWP industry groups such as the Engineered Wood Products Association of Australasia offering educational training to those new to the industry. As an active member of the TM012 standards committee for more than a decade, André has been directly involved with the revisions and updates to the joint Australian and New Zealand timber preservation standards. André's passion for improving the treatment of EWPs has led him to provide technical support and problem solving expertise to Lonza's global EWP customer base during his tenure. He received a B.S. majoring in Forestry from Waikato University, New Zealand.

Tom Wechsler
President
Wechsler Technologies



Tom has more than 35 years of experience in combustion, energy systems (steam/oil/hot gas), industrial heating, and related air pollution controls fields for the board industry as well as other industrial applications. He is a member of the NFPA committee responsible for setting thermal fluid standards. Tom is a graduate of Georgia Institute of Technology with a bachelor's and master's in Mechanical Engineering.

Dominik Wolfschütz
Market Research Specialist
German Woodworking Machinery
Manufacturers Assn. (VDMA)



As a market researcher for the woodworking machinery sector of the German machinery association VDMA, Dominik is responsible for consulting the member companies when it comes to strategic sales and marketing decisions. As co-organizers of Ligna he is also responsible for further developing the world's leading exhibition for woodworking machinery and the organization of several German Pavilions around the globe. Dominik received a degree in wood science and technology from the University of Natural Resources and Life Sciences in Vienna, Austria. In the same year he joined a wood related R&D company and later worked as an inventory manager for Stora Enso Timber before joining VDMA.

Michael York
Systems Engineer and Product Manager
Wechsler Technologies



As Systems Engineer and Product Manager for Wechsler Technologies, Michael specializes in operational and safety equipment for clients in the process heating industry. He is involved in pump and fire safety product development for Wechsler. Michael holds a Bachelor of Engineering from the University of Georgia.

Stefan Zöllig
Co-Owner
Timber Structures 3.0



Since he completed his studies as a timber engineer in Switzerland in 1992, Stefan has specialized in building materials design and application through the companies VRP, Timberbatic and most recently Timber Structures 3.0. The new TS3 technology bonds timber components made of solid wood, glulam or cross-laminated timber on the front side. This means that point-supported, multi-axis load-bearing panels or tiled slabs can be created in any shape and size. This opens up constructive and design worlds that were previously inaccessible to timber construction.


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The staff of *Panel World* magazine wishes to thank the producer members of APA—The Engineered Wood Assn. and the organizers of affiliate Engineered Wood Technology Assn. for voting *Panel World* as the 2019 Supplier of the Year in the Consulting Services category. This marks several consecutive years in which *Panel World* has received the award, and it is always greatly appreciated.



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