Processing Technologies for the Forest & Biobased Products Industries

PTF BPI 2021

FOREST PRODUCTS SOCIETY

Program & Agenda

November 1-3, 2021

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The 6th International Conference on Processing Technologies for the Forest and Biobased Products Industries is dedicated to the exchange of information and ideas about research on process technologies, quality control, and process improvement.

PTF BPI 2021 brings academia, industry, and government entities together to network on innovation and applied technologies.

The unique conference includes academic scholars sharing the latest research in forest and bio-based materials, plus leading manufacturers will highlight advancements in chemical technologies, supplier audits and product innovation. This conference provides a forum and sessions for technical managers, plant managers, production managers, product development engineers, process engineers, scientists, academicians, and students in the Forest and Biobased Products Industries.

Thank you for joining us!

Table of Contents

Contact Information

Forest Products Society

Chris Butts	**Jennifer Whitlow**	**Mary Kendall Dixon**
Executive Vice President	Program Coordinator	Communications Coordinator
cbutts@forestprod.org	jwhitlow@forestprod.org	mkdixon@asginfo.net

PO Box 932 | LaGrange, GA 30241 | USA
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Venue Information

The King and Prince Beach & Golf Resort

201 Arnold Road, St. Simons Island, GA 31522

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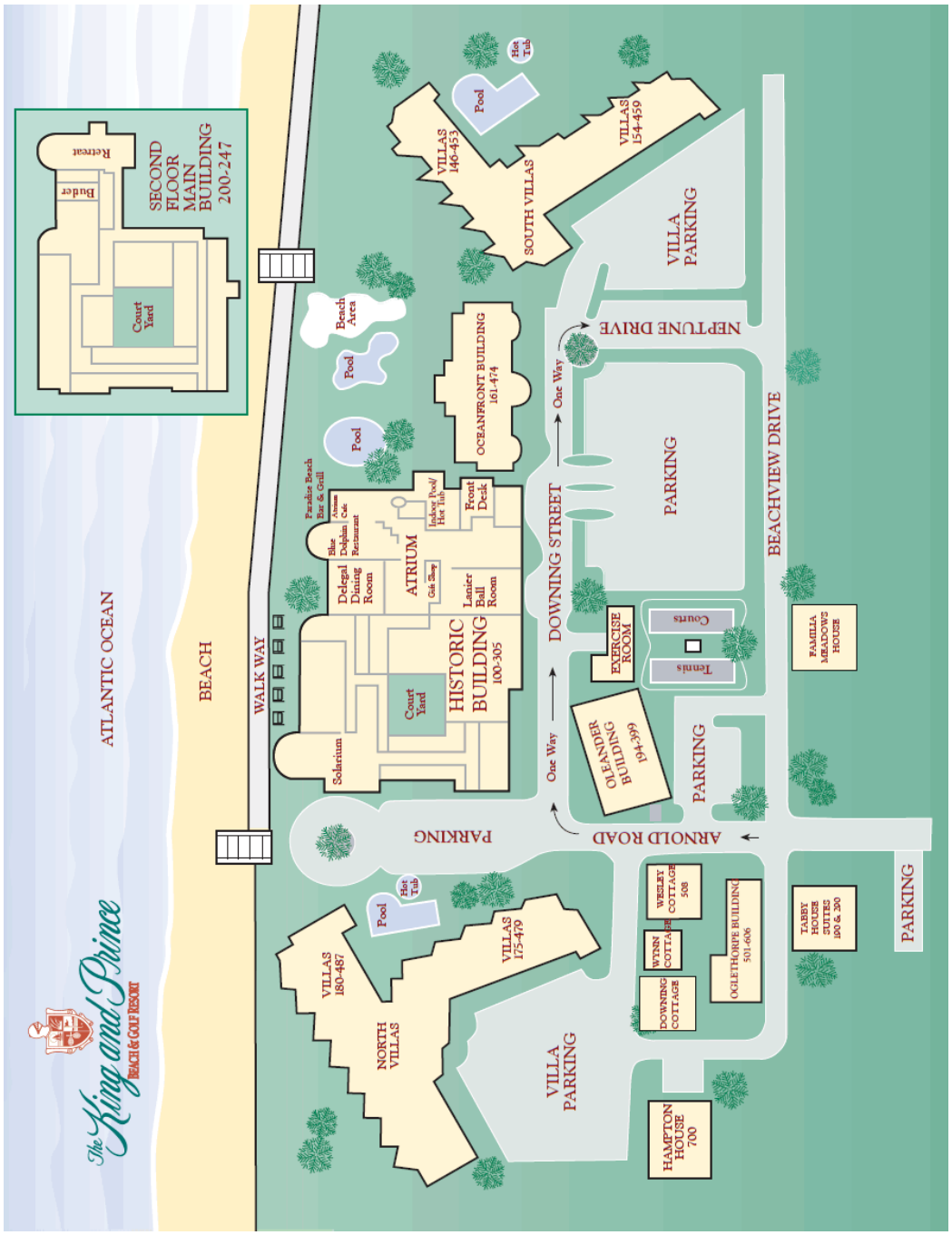

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Agenda

Monday, November 1

	Golf Outing at the King and Prince Golf Course
12:30 PM – 5:00 PM	Registration
1:00 PM – 5:00 PM	Introduction to Wood Materials and Adhesives* Adam Taylor, PhD | The University of Tennessee Bob Breyer, PhD | Georgia-Pacific Chemicals
1:00 PM – 5:00 PM	Design of Experiments for Rapid Innovation* Timothy Young, PhD | The University of Tennessee

*Pre-Registration is Required

Tuesday, November 2

7:30 AM	Registration, Exhibit Hall, and Breakfast Open
8:15 AM	Opening Remarks, Recognition of Sponsors, and Welcome
Keynote Presentations	
8:45 AM	Roy O. Martin III Chairman, CEO, CFO, RoyOMartin
9:05 AM	Kurt Koch VP of Products Engineering and Quality, Huber Engineered Woods
9:25 AM	Wendy Owens Founder and CEO, Hexas Biomass, LLC
9:45 AM	Harold Arnold President, Fram Renewable Fuels, LLC
10:05 AM	**Break with Exhibitors**
Plenary Presentations	
10:30 AM	Charles Waddell President, Global Plasma Solutions *How to Make Your HVAC Systems Pandemic Ready with Needlepoint Bipolar Ionization*

10:50 AM

Matt Holt
Director of Quality, Roseburg Forest Products
How Data Science is Changing the Forest Products Industry

11:10 AM

Charles Gale
Strategic Business Analyst, SmartLam North America
A Manufactures Review of the Supply Chain Challenges and Opportunities, and a Summarized Southern Sawmill's Survey Results of the Perceptions, Awareness and Participation of the CLT Market

11:30 AM

Bob Breyer
Senior Technology Manager, Georgia-Pacific Chemicals
The Future of the Forest Products Industry and How Can You Help Us Get There

11:50 AM

Open Questions and Discussion

12:00 PM

Lunch with St. Simons Historian

Concurrent Sessions

1:30 PM

Concurrent Session I: Wood Adhesives and Material Science I

Moderator: Rubin Shmulsky | Mississippi State University

David Harper | The University of Tennessee
Enhancing Nature's Surfaces: Using Informed Computational Models to Improve the Function and Performance of Biobased Materials

Brian Via | Auburn University
Soy Flour Substituted pMDI for Wood Composites

Abiodun Alawode | Auburn University
Performance of Different Fillers in Methylene Diphenyl Diisocyanate (MDI) Resin

Concurrent Session II: Structural Wood Materials

Moderator: Adam Taylor | The University of Tennessee

Steve Winistorfer | TECO
General Process of Testing and Certifying CLT

Mustafa N. Kaya | Mississippi State University
Hygrothermal Behavior of Cross-Laminated Timber Panels Partially Submerged in Water

Guangmei Cao Anderson | Mississippi State University
Fitting Statistical Distribution Models to MOE and MOR in Mill-Run Red Pine and Spruce Lumber Populations

Frank C. Owens | Mississippi State University
Some Problems with Lower-tail Fitting in Modeling Strength Distributions of Lumber

Concurrent Session III: Data Science and AI

Moderator: Timothy Young | The University of Tennessee

Ed Sobek | Global Plasma Solutions
Reducing SARS-CoV-2 Virus Air and Surface Contamination Using Ionization Technologies and Data Science

Terry Liles | Huber Engineered Woods
Application of EVOP in Wood Products Industry

Anton Astner | The University of Tennessee
Component Yield Maximization of Organosolv Fractioned Softwood Combines with Rapid Prediction of Lignin Thermal Properties

Chloe Ericksen | The University of Tennessee
Interfacing 'R' Software with JMP for Machine Leaning and AI

3:00 PM **Break with Exhibitors**

3:30 PM Concurrent Session IV: Wood Adhesives and Material Science II

Moderator: Terry Liles | Huber Engineered Woods

Siqun Wang | The University of Tennessee
Optimizing Wood Composite Processing and Properties Via Press Control Strategies

Sudip Chowdury | The Willamette Valley Company
Commodity to Value-Added Proposition: Engineered Waxes for Enhanced Panel Performance and Improved Safety

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Joseph Marcinko | Polymer Synergies
Solid State Deuterium NMR Used to Study the Mobility of Water in Wood and Its Influence on Moisture Cure Adhesives

Mark Gagnon | Penn State University
Pressurized Radio Frequency Heating of Wood to Meet ISPM-15 Requirements

Concurrent Session V: Innovation in Sustainable Biomaterials and Processes

Moderator: Ronalds Gonzalez | North Carolina State University

Kim Tutin | Captis Aire
Industrial Air Pollution Control Technology for Wood Processing Enables Operators to Sell Valuable Bioproducts, Sell Carbon Offsets, and Significantly Reduce Operating Costs as it Cleans the Air

Bob Breyer | Georgia-Pacific Chemicals
Why We Should Transform Plywood Bond Performance Testing

Rubin Shmulsky | Mississippi State University
Development of Access Mat Software for Efficient Specification, Safe Deployment, and Environmental Protection

Scott Leavengood | Oregon State University
Teaching Lean Manufacturing Principles via Remote Instruction

Concurrent Session VI: Innovation in Value Added Products

Moderator: Brian Via | Auburn University

Laya Khademibami | Mississippi State University
Abrasion Resistance and Hardness Assessment of Five U.S. Hardwoods

Levente Denes | West Virginia University
Chair Development Based on Body Pressure Distribution – A Research Effort

Danijela Domjlan | University of Zagreb, Croatia
School Furniture Design – A Comparison in Primary Schools in the Czech Republic, Croatia and USA

Richard Baldwin | Oak Creek Investments
Keeping Structural and Decorative Wood Products Relevant: Development of Alternative Products, Fibers, and Processes

5:30 PM **Cocktails by the Ocean**

6:30 PM **Dinner Banquet**

Wednesday, November 3

7:30 AM Registration, Exhibit Hall, and Breakfast Open

Concurrent Sessions

8:30 AM Industry News

Moderator: Fred Kurpiel | Georgia Research Institute

Roseburg Forest Products
The New Laminated Veneer Lumber (LVL) in Chester, SC

Egger Wood Products
The New MDF Mill at Lexington, NC

Huber Engineered Woods, LLC
The New OSB Mill at Cohasset, MN

Roy O. Martin | RoyOMartin
The New Mill at Corrigan, TX

8:30 AM Concurrent Session VII: Industry Trends

Moderator: Rubin Shmulsky | Mississippi State University

Ronalds Gonzalez | North Carolina State University
How Global Megatrends will Shape the Forest Product Industry in the Next 10 Years

Don Hodges | The University of Tennessee
A New MS-Forestry Curriculum at The University of Tennessee with a Unique Focus in Data Science

Dick Baldwin | Oak Creek Investments
Wood Utilization and Carbon Accounting within a Forest Based Circular Bioeconomy

Richard Poindexter | Search North America
Wood Products Employment Trends & How to Keep Your Employees Engaged

10:00 AM **Break with Exhibitors**

10:30 AM Concurrent 'Virtual EU' Session I

Moderator: Tim Young | University of Tennessee

Klaus Richter | Technical University of Munich, Germany
Forest Based Bioeconomy in Germany: Current Status and Recommended Action

Alexander Petutschnigg | Salzburg University of Applied Sciences, Kuchl, Austria
Test Device for Multispectral Analysis of Roundwood End Faces

Martin Reigler | BOKU University, Vienna Austria
Assistance Systems for Wood Construction

Stefan Kain | Salzburg University of Applied Sciences
Smart Wood Materials from Additive Manufacturing

Fernão Magalhães | LEPABE, University of Porto, Portugal
New Cork-Acrylic Composite Foam Coating

10:30 AM Concurrent 'Virtual EU' Session II

Moderator: Terry Liles | Huber Engineered Woods

Rupert Wimmer | BOKU University, Austria
Smart Materials, Magnetic Wood and Air Cleaning

Nathan Koelli | University of Applied Sciences and Arts TH OWL, Germany
Densification and Press-Drying of Wet Oil Palm Lumber

Csilla Csiha | Sopron University, Sopron, Hungary
The Relevance of Wood Moisture Content When Measuring Contact Angle

Mehieddine Derbas | Wood K Plus, Vienna, Austria
Tool Wear Identification by Monitoring Acoustic Emissions During Wood Milling

10:30 AM

Concurrent 'Virtual EU' Session III

Moderator: Bob Breyer | Georgia-Pacific Chemicals

Eugenia Tudor | Salzburg University of Applied Sciences, Kuchl, Austria
Biomimicry of Bark-based Composites in a Circular Economy

Sergej Medved | University of Ljubljana, Slovenia
Wood-based Panels and Water: Love and Hate Relationship

Sergej Medved | University of Ljubljana, Slovenia
Alternative Resin System with Liquefied Wood for Particleboard

Alan Antonović | University of Zagreb, Croatia
Liquefied Wood as a Catalyst for Melanine-Urea Formaldehyde Resin Polycondensation in Particleboard Production

Jorge Santos| LEPABE - University of Porto, Porto, Portugal
Exterior Grade Particleboards 100% Biobased, Made From by Products of the Food-Packaging Industry

12:00 PM **Conference Concludes & Boxed Lunch Pickup**

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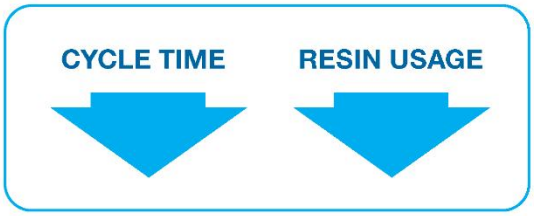

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Wood Adhesives

Pre-Conference Workshops

*Additional Pre-registration Required

Introduction to Wood Materials and Adhesives

Monday, November 1 | 1:00 – 5:00 PM

Course Overview

This course will provide young industry professionals with a solid foundation and basic knowledge and understanding of the forest products sector to help build their careers. This course is ideal for suppliers, consultants, claims agents and others who do not have a formal education in the forest products sector.

Course Instructors

Adam Taylor, PhD | The University of Tennessee Center for Renewable Carbon
Robert Breyer, PhD | Georgia-Pacific Chemicals

Design of Experiments for Rapid Innovation

Monday, November 1 | 1:00 – 5:00 PM

Course Overview

This four-hour course provides an overview of the principles of designed experimentation in R&D and manufacturing settings. Factorial designs, ANOVA, and Robust product design are illustrated. No prior knowledge of statistics is required to attend the course. JMP 15 and Minitab 19 software examples are used to support the concepts covered. Easy to understand training notes are provided to participants.
The course is available for 0.4 CEU credits issued by The University of Tennessee.

Course Instructors

Timothy Young, PhD | The University of Tennessee Center for Renewable Carbon

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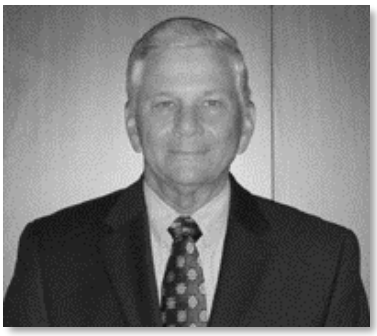
Keynote Speaker Information



Harold Arnold
President, Fram Renewable Fuels, LLC
Hazelhurst, Georgia, USA

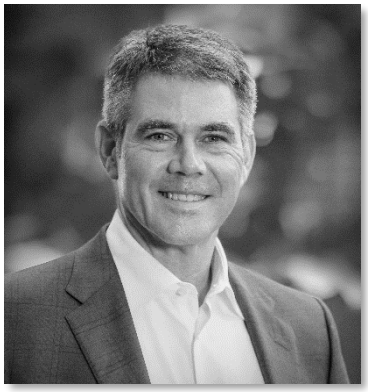
Harold has been involved in the forest industry his entire working life. He spent more than 23 years in the Forest Resources Division of Hercules Inc. and held the position of Western Region Superintendent prior to his leaving Hercules in 1995. Since then, he has exported chips and other forest products through port facilities at Savannah, handled a variety of consulting projects for forest products industries in the South, and completed several international forestry related assignments as a consultant for the United States Agency for International Development.

Harold joined Fram Renewable Fuels, LLC in October 2005. His industry knowledge led to the development of Fram's first wood pellet facility in Baxley, Georgia. Appling County Pellets was constructed and began producing in late 2007. Since then, he has played a pivotal role in the development of the business and customer relationships that are so vitally necessary in this business. As the industry continues to grow Harold enhances the profile of Fram to further develop the wood pellet industry in the Southeast United States.

Kurt Koch
Vice President of Product Engineering and Quality, Huber Engineered Woods
Charlotte, North Carolina, USA

Kurt is the Vice President of Product Engineering & Quality for Huber Engineered Wood and works out of the Charlotte, NC corporate office. Kurt manages the Quality Assurance teams, Building Code recognition for HEW specialty products, Architect, Engineer & Builder continuing education activity and technical support services related to in-field product use.

Kurt holds a Degree in Civil Engineering from Clemson University as well as an MBA from the University of Washington in Seattle. Kurt is a professional engineer with registration in 20 States. After working as a consulting structural engineer and for Trus Joist/Weyerhaeuser as a General Manager for a new business unit, Kurt joined Huber Engineered Woods LLC in 2003.



Roy O. Martin III
Chairman, CEO, CFO, RoyOMartin
Alexandria, Louisiana, USA

Roy is the chairman, chief executive officer, and chief financial officer for RoyOMartin. A third-generation leader, Roy spent much of his youth and young-adult life working in various locations of the family business. After earning his bachelor's degree in mechanical engineering from Louisiana State University, Roy joined the company full time in 1985 and later completed his Master of Business Administration at LSU. The grandson of Roy O. Martin, Sr., he grew up in Alexandria, Louisiana, as the only son of Roy O. Martin, Jr. (Roy O. Martin Lumber Company president from 1962-1978).

RoyOMartin is one of several wholly owned subsidiaries of Martin Sustainable Resources L.L.C., a privately held equity investment company. The name RoyOMartin honors the business pioneer and Martin family patriarch, Roy O. Martin, Sr. (Roy Sr.), who began the family's first business with a small sawmill in Alexandria, Louisiana in 1923 and soon thereafter bought a few acres of timberland. Martin Sustainable Resources L.L.C. is owned by several generations of Roy Sr.'s descendants. Its holdings are broad but focus primarily on land, timber, and mineral resources with special emphasis on sustainable forests and forest-products manufacturing businesses.

Wendy Owens
Founder and CEO, Hexas Biomass, LLC
Olympia, Washington, USA

Wendy Owens is the founder and chief executive officer of Hexas Biomass LLC (Hexas), a role that allows her to use her experience as a serial entrepreneur in the communications technology, materials engineering, biotechnology, and healthcare industries. Prior to founding Hexas, Ms. Owens was in biotech as a clinical scientist and advisor to major bio-pharmaceutical companies. She led research studies funded by the CDC, Biogen, Shire, Genentech, and other biotech and bio-pharmaceutical companies.

Ms. Owens also co-founded and ran an advance composite materials engineering company taking the company from technology development to patenting and commercialization. Ms. Owens served as advisor to the US Secretary of Commerce and US Trade Representative on an International Trade Advisor Committee (ITAC 8) for 14 years.

Plenary Speaker Information

Bob Breyer
Senior Technology Manager, Georgia-Pacific Chemicals
Decatur, Georgia, USA

Dr. Breyer (Bob) is the R&D Manager for Thermosetting Resins for Georgia-Pacific Chemicals which he joined in 1991. Throughout his tenure, his focus has primarily been wood adhesives. He holds PhD from University of New Orleans in Organic Chemistry. He is the current Vice President of the Forest Products Society.

Charles Gale
Strategic Business Analyst, SmartLam North America
Portland, Oregon, USA

Charles is currently the Strategic Business Analyst for SmartLam North America working on business process solutions for manufacturing locations in Columbia Falls MT, Dothan AL, 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 most notably the www.masstimberreport.com. Prior to that he was a Manufacturing business Analyst and Sales and Ops Planner at Stimson Lumber Company. In the past, Charles has published several general technical reports (GTR) on the macroeconomic wood product 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 product industry during the great recession. He is part of the Sustainable Forest Initiative's (SFI's) task force, as well as an active member of Society of American Foresters and Forest Products Society. Charles holds a BS 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.

Matt Holt
Director of Quality, Roseburg Forest Products
Raleigh, North Carolina, USA

Matt Holt is the Director of Continuous Improvement and Optimization for Roseburg Forest Products Company and works out of the Raleigh, NC region. Matt manages the Quality Assurance team, Continuous Improvement, New Product Development, and two Manufacturing Facilities.

Matt completed his undergraduate and graduate work at The University of Tennessee. After working in multiple locations across the Carolinas manufacturing Particleboard, MDF, TFL, and treated paper for Arauco, Matt joined Roseburg in 2020.

Charles Waddell
President, Global Plasma Solutions
Charlotte, North Carolina, USA

Charles “Charlie” Waddell is the Chief Technology Officer and Founder of Global Plasma Solutions, Inc., a manufacturer of Needlepoint Bipolar Ionization (NPBI) products for the indoor air purification market. His experience includes designing HVAC systems for the residential, commercial and industrial markets as well as for the automotive, hand dryer and aviation industry. Charlie holds a BSEE from Old Dominion University, Norfolk, VA.

Charlie is an active member of ASHRAE and currently a participant of ASHRAE SSPC 62.1, TC 2.3 (Gas Phase Filtration), TRG4-IAQP, and formerly the secretary of TC 8.12 (Desiccant Dehumidification & Components). Charlie has over 18 years of HVAC design and application experience. Charlie’s portfolio includes 30 patents granted, 28 patents pending, and an article published in Engineered Systems Magazine on desiccant dehumidification. Charlie is an instrument rated private pilot and enjoys flying for business and pleasure.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