WoodTALKS at the GBM 2024
Course Information
1

Provider Name: BC Wood Specialties Group

Course #: WTGBM24-01

Title of Learning Activity: Alpine House, high-end residential site tour, Whistler

Presenter name: Randy Orr, Chris Massuger

Date of Activity: September 5th, 2024

Length of Activity: 1.0 hour

Method of Delivery: Face-to-face presentation and guided tour of a high-end residential construction

Presentation Location: 8279 Alpine Way, Whistler, BC

Activity Summary:

Alpine Meadows is a charming residential neighbourhood located in the beautiful resort town of Whistler, British Columbia, Canada. The neighbourhood offers a tranquil and peaceful atmosphere, from older townhomes to classic Whistler ski chalets and modern architectural marvels. This site tour of an Alpine Meadows modern residential home demonstrates the latest technologies in wood and steel construction, architectural planning and interior design, and in building material solutions. An example demonstrated will be revolutionary low carbon concrete panels with plywood core for applications in walls, fireplace surrounds, and ceilings that attain unparalleled, sophisticated concrete aesthetic appeal. The material stands out as an environmentally conscious product, incorporating sustainably sourced wood for its backing.

The tour will provide specifiers an opportunity to see first-hand the design and in-construction stage of a beautiful high-end residential project from the perspectives of the interior designer, materials supplier, and the builder. The tour will be guided by Matt Concrete (a low carbon concrete solution manufacturer of wall surfaces); Project 22 Design (award-winning West Coast interior designer), and Suger Custom Builders (Whistler builder). The project architect and landscape architect is Whistler based Murdoch + Company Ltd.

Learning Objectives:

1. Discover on-site the architectural planning and the construction phase of a new high-end residential project in Whistler, British Columbia

2. Discover the application alternatives for low carbon light-weight concrete panels for walls, fireplace surrounds, and ceilings, and its aesthetic and sustainability values

3. Gain a greater understanding of on-site construction techniques of mostly wood structure with hidden steel to deal with loads and allow the “open plan” to work

4. Understand the specifying and collaboration processes between the interior designer and the project architect, project builder, and the product manufacturers

Presenters:

Chris Massuger, Director/Project Manager, Sugar Custom Builders
Chris started his career in the luxury hotel and high-rise sector in Australia in 2005, before moving to Dubai, UAE with Brookfield Multiplex to build one of the largest luxury hotels in the Middle East. In 2012, Chris made the move to Whistler, BC. After being awarded the 2016 Georgie Awards for Best Custom Home over $3 million for Kindred Construction, his passion for building custom homes was solidified. Chris started Suger Custom Builders in 2019 and has continued to focus on niche and challenging residential projects ever since.

Randy Orr
Owner / Decorative Artist, MATT Concrete

Over the course of his decades long career as a decorative artist, Randy has completed projects in more than 1,000 homes and commercial spaces in Metro Vancouver, the BC Interior, Vancouver Island and Whistler.

He works with homeowners, designers, builders, and architects, to bring a wide range of decorative convents to life-stunning one of a kind projects that are pieces of art in themselves. Randy is a certified master craftsman in the application of concrete, resins and plastering techniques, and his passion for the creative process and innovative solutions, drives him to push the boundaries of traditional uses of concrete.

2

Provider Name: BC Wood Specialties Group

Course #: WTGBM24-02

Title of Learning Activity: **ʔəms ʔayɛ (Our house) Tla'amin Nation**

Presenter name: **Nancy Mackin, Principal Mackin Architects Ltd., Ric Durfeld President Durfeld Log and Timber, Kespahl (Drew Blaney), Tla'amin Nation Culture and Heritage Manager**

Date of Activity: **September 5th, 2024**

Length of Activity: **1.0 hour Eligible for 1 Core LU related to Indigenous Peoples Learning Recognized by the AIBC**

Method of Delivery: **Face-to-face presentation**.

Presentation Location: **Whistler Conference Centre, Whistler, B.C.**

Activity Summary:

ʔəms ʔayɛ (Our House) is the first cultural house erected in Tla'amin territory in over 200 years. Now under construction in the heart of the t̓išosəm community on the Sunshine Coast,

ʔəms ʔayɛ employs sustainably-harvested Western red-cedar throughout the structure and finishing, retelling ancient creation stories while addressing ecological goals of Tla'amin Nation. The over 15,000 square foot cultural hub includes a feast hall, traditional foods facility, language lab, museum and archives, medicinal gardens, carving shed, and a communal smokehouse. It will play a vital role in the promotion of Tla'amin language, culture, food security, and well-being.

Wood has been in BC Indigenous cultures' architecture for thousands of years. Indigenous builders in what is now British Columbia employed different woods in architecture depending on the characteristics and availability of each species. For example, Western red-cedar is called the "real tree" by coastal Indigenous communities because of its historic -- and ongoing -- importance in construction and other uses. Looking forward, wood can be thoughtfully employed in architecture to construct sustainable community buildings and housing while opening opportunities for First Nations participation in design and construction. The talk will explore how culturally-motivated designs can reflect the true history of an Indigenous Nation.

Architect Nancy Mackin, Log craftsman Ric Durfeld, and Kespahl (Drew Blaney), Tla'amin Nation Culture and Heritage Manager, will review this project and other projects that illustrate connections among BC woods Indigenous architecture, and reconciliation goals including language revitalization, artifacts repatriation, ecological well-being, and cultural expression.

Learning Objectives:

1. Appreciate the uses and significance of pole-and-beam construction in Indigenous peoples' architecture in British Columbia

2. Explore how crafting of Western red-cedar and other woods combine ancient Indigenous peoples' technologies with recent advances in Computer Numerical Control (CNC)

3. Share harvesting, design, construction processes that respectfully employ wood to retell ancient stories and the true history of an Indigenous Nation.

4. Discover the collaboration between Architect and the log and timber manufacturers in coordinating the construction of a complex hybrid structure

Speaker Profiles:

Dr. Nancy Mackin Architect AIBC AIA LEED AP has presented her architectural work in Norway, Denmark, Iceland, New Zealand, Finland, Italy, Australia, Portugal, USA, and across Canada from the Arctic Ocean to the Atlantic Seaboard to the West Coast. Her architectural practice is committed to community-based design and respect for each community's unique ecological and cultural context. She is recognized for her "visionary uses of wood" (Wood Design and Building jury 2022) particularly locally sourced woods in combination with other ecologically-wise structural systems. As principal of Mackin Architects Ltd., she is currently working with 12 Indigenous communities on cultural, residential, institutional, and educational projects including 4 museum/ arts facilities and several youth and daycare facilities. Recent awards include Architectural Foundation of BC Award of Excellence "Equity" 2022, Wood Design and Building "Against the Grain" award 2022, Archello Educational Facilities award, and SAB Canada Green Building Award 2021.

Kespahl (Drew Blaney) is from t̓išosəm, the main village of the Tla'amin people. He is manager of Tla'amin Nation Culture and Heritage. From an early age, Drew has been unearthing the songs, stories, ecological wisdom, and architecture of his ancestors.

Ric Dürfeld, Owner, Dürfeld Log &Timber

For over 40 years, Ric and his company Dürfeld Log & Timber have focused on quality and attention to detail. Each project represents the highest level of value in both the trees used as well as the precise fit and finish, core qualities that the company is known for. DL&T believes in a 'cultural approach' to business – respecting and building on the values from the past to help us realize a sustainable future. Ric regards it a privilege to be involved in an industry that combines the two most valuable resources in British Columbia – its people, and its forests.

3

Provider Name: BC Wood Specialties Group

Course #: WTGBM24-03

Title of Learning Activity: Specifying and designing with wood from and Interior perspective

Presenter name: Denise Ashmore

Date of Activity: September 5th, 2024

Length of Activity: 1.0 hour

Method of Delivery: Face-to-face presentation

Presentation Location: Whistler Conference Centre, Whistler, BC

Activity Summary:

In this session we will discover the why, what, and how an interior designer goes about selecting materials for high-end residential projects and how working with wood affects the project outcome. Case studies of current completed and under construction projects in Western British Columbia will be reviewed.

Some case studies explored will be: On North Thormanby Island, an off-grid passive house designed to encourage a sustainable lifestyle that's all about seaside living incorporates eco elements for inspirational and functional design. The remoteness drove the design of the two-level structure using materials that are low-maintenance, hard-wearing, and long-lasting. A Vancouver single-family house and laneway studio interior showcases a love of industrial and mid-century design incorporating building materials to connect with the outdoors. And, we will discover the designing with wood and interior perspective of a new Bowen Island Cabin currently under construction.

Learning Objectives:

1. Discover the why, what, and how materials are selected from an interior design perspective through residential case study projects
2. Learn how working with wood from an interior design perspective affects project outcome
3. Discover eco design elements for functional design in off-grid passive house architecture

4. Learn about design application for low carbon light-weight concrete panels for walls, fireplace surrounds, and ceilings, and its aesthetic and sustainability values

Presenters:

Denise Ashmore — Principal BID RID, Project 22 Design

Where's home: BC now but I have a lot of Toronto still in me… sorry in advance if I am little quick to get straight to the point or don't stop for all pedestrians. **Beverage of choice:** Rosé …specifically French ;)**Mode of transport:** Red Vespa Piagio in the summer and Audi Q3 Black with great speakers! **Favourite pastime:** Tennis, skiing, going to concerts with my kids, getting in the ocean or close to it as possible and walking Gracie in the woods. **Proudest Professional moment:** Winning the WL designer of the year **Proudest life moment:** Surviving childbirth…twice **Favourite show:** Gilmore girls on repeat with my daughter, Handmaids Tale series, Comedians in Cars having coffee **Most memorable read:** Cosmopolitan Magazines from the 80's and Judy Blume are you there God.. **Social Media:** Instagram @project_22_design. No time for a private account… I already spend way too much time on screens. **Influential Artist / Architect / Designer**: Bob Ledingham, Christian Liagre, Piet Boon, Tom Kundig, Patricia Urquioia, Charles and Ray Eames… I could go on. **Defining moment:** Arriving in Sydney with my design portfolio, and a backpack. Life just came together after that, living by the Ocean became a necessity. Vancouver is the perfect place: oceans, mountains, a small supportive design community. I can't imagine where I would be if I hadn't made the leap to live overseas.

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Provider Name: BC Wood Specialties Group

Course #: WTGBM24-04

Title of Learning Activity: Hospitality Wood – Integrating perspectives of hotelier, designer and manufacturer

Presenter name: Larry Traxler, Devon Smith, Donna Shaw

Date of Activity: September 5th, 2024

Length of Activity: 1.0 hour

Method of Delivery: Face-to-face presentation

Presentation Location: Westin Hotel, Whistler, BC

Summary:

Global hotel design professionals work closely with developers, owners, architects, designers, and manufacturers to ensure that the brand ethos and unique style of a hotel chain's properties around the world are attained. This presentation will feature a distinguished panel of hotel flag, designer, and manufacturer and will discuss current wood use trends in the hospitality market,

as well as downfalls in the collaboration and implementation of wood. The differing perspectives within the process will offer insight into how the British Columbia wood industry can work better together with hotel design professionals and create long lasting, sustainable hospitality projects.

Owners and developers of hotels and other hospitality venues are constantly balancing their desire to design unique, innovative buildings that provide exceptional guest experiences against their need to build and operate sustainable, affordable, functional facilities. Hilton has a firm commitment to sustainability in technology and materials as central to the guest experience. This session will be presented by Larry Traxler, Senior Vice President-Global Design Services-Hilton, together with Devon Smith, Principal-Devon Smith Design Studio, and Donna Shaw – President & Owner, Live Edge Design.

Learning objectives:

1. Discover current wood use trends in the global hospitality market
2. Understand the challenges to implement wood into sustainable hospitality projects, and perspectives to strengthen collaboration with BC industry manufacturers and designers
3. Learn about current architecture, design, construction and renovation perspectives from a global hotel chain and designer
4. Gain insight on how global design professionals work closely with developers, owners, architects, designers, and manufacturers to ensure that the brand ethos and unique style of a hotel chain's properties around the world are attained

Presenters:

Donna Shaw

Donna Shaw is the President and owner of Live Edge Design Inc. Donna has been with Live Edge since 2006 and her extensive industry experience will help guide Live Edge Design into the future, staying true to the roots of our sustained success in West Coast modern furniture design.

Larry Traxler
Senior Vice President, Global Design Services, Hilton

Larry Traxler joined Hilton in 2009 and as Senior Vice President, Global Design Services he is responsible for overseeing the company's architecture, design, construction and renovation efforts. Larry also leads Hilton's new brand launches and design refresh initiatives for all 18 brands across the company's portfolio.

Larry and his talented team of global design professionals work closely with developers, owners, operators, architects and designers to ensure that the brand ethos and unique style of Hilton's more than 6,200 properties around the world are attained. He and his team are also focused on actively leading the design strategy and roll out for Hilton's newest brand launches including Motto by Hilton, LXR Hotels & Resorts, Signia by Hilton and Tempo by Hilton.

Prior to joining Hilton, Larry was Vice President, Design & Architecture at Hyatt. With more than 30 years of hospitality industry experience, his international design expertise spans from his

early career with Jordan Mozer & Associates to his role in Singapore as Design & Managing Director for world-renowned Hirsch Bedner Associates. Throughout Larry's career he has also held other design leadership positions at award-winning studios including Wilson Associates and Ian Schrager Hotels.

Larry holds a Bachelor of Architecture degree from the University of Cincinnati's College of Design, Architecture, Art and Planning.

Devon Smith
Principal, Devon Smith Design Studio

Devon Smith is an award-winning designer whose projects, products, and profile have featured globally. Devon brings nearly three decades of design experience, from across four continents, and is known for his highly architectural, modern & environmental style, and innovative use of materials. He takes pride in considering his profession to be a service industry that is successful when a project is truly functional, has an aesthetic that compliments the client, and holistically helps the client exceed their goals.

Some of Devon's most recognizable works are Bennelong restaurant at the Sydney Opera House, GuinnessUDV/Diageo Australian headquarters, The Nines hotel in Portland, the Tommie hotel concept & Austin flagship, and the V Hotel in Venice, California.

Devon Smith Design Studio is currently working on a variety of luxury boutique projects ranging from land to sea, and always trying to enhance the human experience.

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Provider Name: BC Wood Specialties Group

Course #: WTGBM24-05

Title of Learning Activity: Western Red Cedar and Pacific HemFir – natural choices for architectural design

Presenter name: Paul Mackie, Nav Koonar, Rod Stirling

Date of Activity: September 6th, 2024

Length of Activity: 1.0 hour

Method of Delivery: Face-to-face demonstration workshop

Presentation Location: Whistler Conference Centre, Whistler, B.C.

Activity Summary:

From the coastal and interior regions of British Columbia, Western Red Cedar and Pacific HemFir are responsibly harvested to sustain and protect BC forests and their ecosystems. Both softwood species are a natural choice for biophilic architectural design that provide aesthetic beauty, sound absorption to create peaceful space, and serve as top-performing building materials, enhancing the wellbeing of occupants for years to come.

In the realm of architectural design, Western Red Cedar is the choice of cladding material playing a pivotal role in shaping the initial impression and overall identity of a structure. Among all of the softwood species, Western Red Cedar is considered to have the best finish-retention features and is a favorite feature for high-end architecture. Its outstanding dimensional stability, fine texture, a pattern of growth that results in narrow bands of summerwood, and freedom from pitch and resin gives it exceptional ability to accept many different types of finishes. These finishing options will be explored.

Sustainability has become a top priority for many consumers and when designing, upgrading or maintaining a home. We will explore specifying Cedar shake and shingles which are an eco-friendly roofing and sidewall option. Discussed will be the cedar shake and shingle market in North America, current issues facing the industry and new developments, its architectural applications, and introduction to wood treatment and fire treatment products.

Also discussed will be the pros and cons of various noise barrier technologies with an emphasis on Pacific HemFir sound abatement barrier technology. Pacific HemFir sound abatement barriers are a made-in-BC technology with a proven performance track record.

Learning objectives:

1. Learn about the latest in exterior and interior finishing options for Western Red Cedar that give the best penetration and optimal performance
2. Understand the cedar shake and shingle market in North America, current issues facing the industry and new developments, and its architectural specifications
3. Learn about wood treatment and fire treatment cedar shake and shingle products
4. Understand Pacific HemFir sound abatement barrier in-service performance and specification

Presenters:

Nav Koonar

Nav Koonar is the Director of Operations with the Cedar Shake & Shingle Bureau (CSSB). Nav has a background in engineering & operations across several industries, including pulp & paper, building materials, plastics and packaging. He is heavily involved in working/lobbying with the Government & First Nations for the fibre supply in Canada and building code changes in the US to sustain the natural wood market in North America.

Nav is a graduate of BCIT and Lakehead University with a degree in Chemical Engineering. He also holds an MBA from the University of Northern BC and is a Professional Engineer (P.Eng) in the province of British Columbia. Nav and his wife live in Surrey, BC, with their two young children, a 3-year-old daughter and a 7-year-old son.

Rod Stirling

Rod Stirling is manager of the biomaterials research team at FPInnovations, Canada’s forest product research institute. He holds a Ph.D. in wood science from the University of British Columbia and has worked in wood product durability research for the past 20 years. He has over 100 research contributions, including more than 30 refereed papers. Dr. Stirling is the Vice

Chair of the CSA Technical Committee on Wood Preservation and Chair of the P6 Committee on Evaluation Methods within the American Wood Protection Association. Dr. Stirling is an Adjunct Professor at the University of British Columbia, Wood Science Department, and is the current president of the International Research Group on Wood Protection.

Paul Mackie- Cedar Specialist, Western Red Cedar Lumber Association

Media voice and face of the Western Red Cedar Lumber Association also known as Mr. Cedar. Internationally recognized as an expert on all things related to Western Red Cedar building materials.
Source of technical information and sources for Western Red Cedar for architects, designers, distributors, builders and homeowners.

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Provider Name: BC Wood Specialties Group

Course #: WTGBM24-06

Title of Learning Activity: Building systems and prefabrication from BC's value-added wood industry

Presenter name: Sigi Liebmann, Ken Toews, Oliver Tritten

Date of Activity: September 6th, 2024

Length of Activity: 1.0 hour

Method of Delivery: Face-to-face demonstration workshop

Presentation Location: Whistler Conference Centre, Whistler, B.C.

Activity Summary:

This workshop will explore several developments in building systems and prefabrication being manufactured in British Columbia's value-added wood industry. Prefabrication of homes indoors means no weather delays and no moisture-impacting materials. Efficiencies are higher, there's little on-site construction disturbance, and way led material waste. Through the prefabrication process, subcontractors don't need to be relied upon which helps with quality control and timelines. Using renewable materials from local and sustainably managed forests, including cross-laminated timber, building off-site in warehouses lessens our carbon footprint, decreases material waste, and causes less disruption. We will first discover the latest in thoughtfully designed modern prefabricated homes, but "smaller".

Wood is the most natural and healthy material to build with, but we understand that construction is a major contributor to waste. Taking steps to doing everything as sustainably possible, DLT (dowel-laminated timber) is 100% wood, no glue, no nails. Layers of wood are friction-fit together with hardwood dowels rather the glue or nails/screws. The lumber layers are assembled into solid wood panels designed for walls, floor, ceilings and roof structures. Next, this session will explore the DLT values and assemblies and integration of DLT into new home designs.

And we will look at prefabricated roofing which has become popular in the industry, with one of the biggest benefits being cost savings. Compared to traditional roofing methods, prefabricated roofs are cheaper to install and often require less labor. Because the

panels are made in a factory, they fit together more snugly and require less time to install. In addition, because the panels are lighter than traditional roofing materials, they are easier to handle and transport to the job site. Because they are made in a controlled factory environment, the chances of errors or defects are much lower.

Learning objectives:

1. Learn how using renewable materials from local and sustainably managed forests, including cross-laminated timber, building off-site in warehouses lessens our carbon footprint, decreases material waste, and causes less disruption
2. Learn about DLT (dowel-laminated timber) building systems: R-value of DLT, most efficient use of DLT, and structural testing of DLT,
3. Understand the integration of DLT panels into new home designs, and integration with wood fiber insulation assemblies

4. Learn about Pre-fabricated Roof Panel systems, its features and construction advantages

Presenters:

Sigi Liebmann, International Timber Frames, Golden, BC

Sigi Liebmann began his Timberframe Apprenticeship in Switzerland in 1986. After completing it in 1989 he attended the Higher Technical School of Wood in Biel. The training specialized in wood engineering, building envelope physics, CAD drawings and CNC machine programming. Whilst in Switzerland he was part of the team developing a stacked DLT (dowel laminated timber) product in the 1990's. Sigi established International Timberframes in 2003 where he assisted in the set-up of CNC technology and staff training for several timber framing companies in Spain, USA and Canada, and offering design consultancy services. In 2005 his passion brought him back to his timber framing roots and now his company focus is designing, manufacturing, engineering and building timber frame and 100% wood DLT mass timber. He cannot believe he has been in the industry for over 35 years. He is a Board Member of the BC Log and Timber Industry Association. Sigi's love of wood is coupled with his love of living naturally and simply: he lives on a small farm, keeps bees and a small fold of Scottish Highland cattle, loves gardening and anything related to trees.

Oliver Tritten
Founder, OT Timber Frames Ltd.

The beginning of Oliver's career in the timber works industry started in 1990 back in Switzerland, he spent 5 years in practical applications, and then was indentured for a formal 3-year apprenticeship in European Timber Framing. Upon completion of his apprenticeship and university preparation courses, he continued his education by attending university, studying applied sciences, and graduating in 2002 with a Technical Master Timber Framer Diploma. Ready to take the next step, he moved to Canada in 2003, studying the art of handcrafted log building from a leading log building company. After a few years of heading up their timber frame operation; Oliver began his journey to start OT Timber Frames ltd, founding it in 2009. His vision

was to specialize in quality, creative, solid, and unique timber frame building systems, accents, and structures.
Oliver has now built up the incredible company that OT Timber Frames Ltd is today, and has since brought on a team of talented and skilled craftsmen with the mission to deliver excellence in every project.

Ken Toews, Founder, Hewing Haus

“Ken began his home-building journey in 2003 when he started Rockridge Developments - a luxury custom home-building business primarily focused on the Vancouver West Side and acreage properties in the Lower Mainland. He began exploring the concept of modular in 2019, and in 2022 incorporated Hewing Haus, combining the benefits of modular with his decades of experience in high-end, luxury homes. Based in Chilliwack, BC, Hewing Haus is shipping modular homes throughout Canada and the US. Now in its third fiscal year, Hewing Haus is a fast-growing business as people are recognizing the ease, efficiency, and innovation opportunities that modular construction presents.

Ken lives in Abbotsford, BC, with his wife Lisa. He also has four children (one married, one engaged). He currently serves on the Green Bay Bible Camp Board and Building Committee, bringing his expertise to the current construction of a 21,000 sq ft dining hall in Kelowna. He also serves on the Lifesong for Orphans (Canada) Board and Building Committee. Ken travels to Zambia multiple times a year, assisting in the development of a 30-acre development site to construct a high school for over 1200 vulnerable and orphaned children.”

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Provider Name: BC Wood Specialties Group

Course #: WTGBM24-07

Title of Learning Activity: Product Innovations in the BC Value-added wood industry

Presenter name: Ryan Stokes, Kyle Conway, Mark Anson

Date of Activity: September 6th, 2024

Length of Activity: 1.0 hour

Method of Delivery: Face-to-face demonstration workshop

Presentation Location: Whistler Conference Centre, Whistler, B.C.

Activity Summary:

BC Wood is a not-for-profit trade association that represents British Columbia’s value-added wood products of 120+ wood products manufacturers, product suppliers, and supporting service providers. In this demonstration workshop we will explore some current product innovations

from the industry in high-performance wood coatings, in performance fasteners for wood construction, and in eco-friendly wood tiles for design applications in walls and accents.

The wood coating industry has been evolving significantly in recent years, driven by various factors such as mass timber advancements, environmental considerations and changing consumer preferences. We will explore the development of high-performance wood coatings which has come from advanced chemistry, industry experience and scientific testing. Also demonstrated will be the latest in performance fasteners for wood construction, including pneumatically driven wooden nails (for future-oriented use in industrial production and ecological timber construction), and screw-nail fasteners. Then, we will discover how wall tiles made of hemlock are sustainably harvested from forests and manufactured into beautiful products for architectural applications.

Learning Objectives:

1. Understand the mechanical properties and applications of collated wooden nails pneumatically driven into solid structural lumber
2. Understand how the wood coating industry has evolved in recent years, driven by various factors such as mass timber advancements, environmental considerations and changing consumer preferences
3. Learn about the development of high-performance wood coatings that has come from advanced chemistry, industry experience and scientific testing
4. Learn about the research and manufacturing process of turning sustainably harvested Vancouver Island hemlock into durable lightweight timber tiles for walls and accents

Ryan Stokes

Business Development Manager

Ryan is a leading expert in wood coatings with over 15 years of experience in developing and applying advanced finished for both residential and commercial project. He has worked with numerous wood substrates to develop coating solutions that enhance beauty, durability and sustainability. He lives in a small town in Southern Ontario with his wife, two boys, two dogs and four cats.

Kyle Conway

Kyle is the President of Kanata Resources, delivering high quality innovative wood products and innovative performance fastener systems to the wood construction industry.

MARK ANSON

INTERN ARCHITECT AIBC | M.ARCH | B.E.D.S | DIPL-ARCHTECH

Originally from northern B.C., Mark is trained as both a builder and an architect. His passion is developing and exploring innovative uses for wood. HIs commitment is to showcase wood as a structural composite material, engineered to precise design specifications, but also as an environmentally responsible material that is both renewable, durable and sustainable. Most recently he founded Timber Tiles, an ecological architectural wood wall tile.

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Provider Name: BC Wood Specialties Group

Course #: WTGBM24-08

Title of Learning Activity: Glulam & Engineered Timber Solutions highlight Architecture

Presenter name: Andre Lema, Brian Berg, Laurence Taylor, Ben Good

Date of Activity: September 7th, 2024

Length of Activity: 1.0 hour

Method of Delivery: Face-to-face presentation

Presentation Location: Whistler Conference Centre, Whistler, B.C.

Summary:

British Columbia and Alberta are global leaders in sustainable forest management, and suppliers are passionate about maintaining their environmental impact. Due to responsible forestation requirements, forest growth is reported as exceeding harvest every year, in the United States and in Canada alike. The versatility of wood building products allows industry to reduce waste on the job site, optimizing the materials used, and continuously innovate new engineered timbers and glulam to highlight architectural projects.

We will first explore the transformative potential of Glulam (glued laminated timber) in creating modern community gathering spaces. This session delves into the structural and aesthetic benefits of GLT and Glulam, offering design strategies that highlight its flexibility and strength. Through project highlights discover how Glulam can redefine community spaces with innovative and sustainable design.

Then, we will explore the latest in engineered WRC (Western Red Cedar) timber products. The material is manufactured in 16’ and 20’ lengths and being utilized in multiple different applications on high-end multi-family residential projects. This engineered solution for 4×4 – 8×12 durable WRC timbers are structurally graded, great looking and available in 100% of the prime lengths builders need. Kiln dried and engineered, the dimensional stability means no warping and minimal shrinkage/splits/checks.

Learning objectives:

1. Discover the latest in engineered WRC(Western Red Cedar) timber products, its dimensional stability and specifications, and its applications on high-end multi-family residential projects
2. Learn about the structural and aesthetic advantages of using Glulam (glued laminated timber) in designing community gathering spaces
3. Explore various design techniques and strategies that leverage the flexibility and strength of Glulam to create inviting and functional community spaces
4. Identify key considerations in the planning, design, and construction phases when implementing Glulam solutions in community projects

Speaker Profiles:

Andre Lema,
Business Development Manager
Western Archrib

Andre Lema, a seasoned professional in the wood industry, brings decades of experience and expertise. Starting as a carpenter and advancing through a degree in Construction Engineering at NAIT, Andre has been instrumental in driving the success of Western Archrib. His passion for wood and dedication to fostering client relationships have made him a key figure in the industry.

Brian Berg, Principal Architect

Zerr Berg Architects

Brian has worked on projects across the region for over 25 years. He's provided architectural programming, design and project management services on a wide variety of project types. His portfolio of work includes all areas of commercial and residential architecture, including multiple church projects and extensive work with the North Dakota Air National Guard. Brian served in the North Dakota Army National Guard for 20 years before retiring. Brian has his private pilot's license and enjoys playing trumpet and going to the lake in his free time.

Laurence Taylor

Strategic Accounts – Architects, *Sales & Marketing*

Laurence Taylor is a key member of our Strategic Accounts – Architects team, bringing over five years of experience to the role. His expertise spans carpentry, design, project management, and business development, showcasing a diverse skill set that enhances our team's capabilities. Laurence is also known for his keen sense of humor, often brightening the office with his pranks.

Outside of work, Laurence is a dedicated rugby fan, with a particular fondness for the All Blacks, which he watches with enthusiasm. He is a devoted father to two daughters, Abigail, aged 5, and Piper, aged 2. Laurence treasures living on the edge of the Canadian wilderness, appreciating the serene beauty of nature while still enjoying the proximity to one of the world's most vibrant cities.

Ben Good

Director of Sales, *Sales & Marketing*

Ben Good is the Director of Sales for Woodtone and has been with the company since 2006. His biggest strength is positivity. He believes there is no issue or challenge that Woodtone can't overcome for its customers and business. He understands the balance and needs of both Woodtone and its customers to deliver great partnerships. Some may not know that Ben has experience as a competitive BBQ pitmaster! He has competed across the Pacific Northwest and Canada in competition BBQ events! He also has two young sons, and a cat named Fluffy (he swears it was already named when they got him!) Ben has grown up living in every Province in Canada and believes there is no better place than the Fraser Valley.

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Provider Name: BC Wood Specialties Group

Course #: WTGBM24-09

Title of Learning Activity: Performance and Technology of Engineered Timbers & Panels for Tropical Environments

Presenter name: Keith Murray, Richard Kaufmann, Carla Andersen

Date of Activity: September 7th, 2024

Length of Activity: 1.0 hour

Method of Delivery: Face-to-face presentation

Presentation Location: Whistler Conference Centre, Whistler, B.C.

Activity Summary:

When shipping to tropical destinations that have intense sun and then high humidity after a rainy season, not to mention strong ocean breezes and the salt air, one has to consider the strain that wood products will have to endure from these elements of tropical surroundings. Solid wood performance in this environment may not cut it. Is this a gamble that Architects, designers and builders alike willing to take? Adding to this, logistical challenges are complicated and are prone to delay from rerouting from transportation hubs.

In this presentation, BC manufacturer Silva Timber and builder Kohola Custom Homes will cover their collaboration in a Hawaiian resort project from start to finish; and explain the story of manufacturing engineered panelling and its benefits for installation and performance in high-end residential developments. Engineered wood products from British Columbia have come a long way in technology of manufacturing and coatings to provide an attractive alternative for tropical destinations throughout the world.

Nestled on a rocky hillside overlooking Hanalei Bay, Kaui, the 1 Hotels resort underwent a vast renovation. The updates aimed to reconnect guests with Kaui's lush and natural environment. This presentation will also look at the role BC timber fabricator, FraserWood Industries played in developing and delivering elements that complemented the project team's vision. The same tropical climate element issues are endured, but in this case, in the commercial and hospitality environments.

Learning Objectives:

1. Learn about the challenges faced by manufacturers, builders, and architects for solid wood products in high-humidity and tropical climate
2. Learn how BC manufacturers produce engineered wood panelling and timber products compatible to high-humidity and tropical climates
3. Discover the aesthetic and performance characteristics of engineered timbers in hotel renovations
4. Discover the benefits and collaboration processes between BC manufacturers with the project builders, designers and developers

Speaker Profiles:

Keith Murray

Keith has been working with FraserWood for more than 15 years. A graduate of the University of British Columbia's Wood Science program, Keith spent time working in sawmills in a quality control capacity before finding FraserWood. Enticed by the world of digital fabrication, Keith spent several years managing projects from CAD through production. In 2015, he moved to Sales and Marketing side, helping customers with everything from dry timber sales to fully fabricated packages.

Richard Kaufmann, CEO, Silva Timber Products Ltd. - over 30 years in the industry from log break down to value added wood manufacturing and extensive travel throughout the world, Richard sees wood material as more than just a building material and rather a living, breathing product that has meaning and significance. Forests and trees are to be honoured by giving them a second life in the products that we will use for our living spaces, work areas and event centers. He has worked in the capacity of General Manager and Vice President during his career and now owns Silva Timber Products Ltd and manufactures high end wood products for global markets. Richard is on the BC Wood Board of Directors. While sitting on many committees and Advisory Boards he has gained valuable knowledge about the forest and it many levels of management, supply chains and historical evolution on the west coast. He continues to advocate for value added forest products and the best use of our precious timber.

Carla Anderson, Project Engineer, Kohola Custom Homes, Koloa, HI

Carla was raised in California and made her way to Kauai in 2013, via Portland, Oregon. She holds a degree in Environmental Studies from UC Santa Barbara, as well as a degree in Architecture from Portland State University. Carla is currently a Residential Construction Project Engineer for Kohola Custom Homes. When not helping people build their dream homes, she enjoys hiking, running, snowboarding, going to the beach, cooking, and lots and lots of home projects.

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Provider Name: BC Wood Specialties Group

Course #: WTGBM24-10

Title of Learning Activity: Design and Implementation of Structural and Finished Products into Tropical Hospitality

Presenter name: Kae Elledge, Dai Ona, Peter Raja

Date of Activity: September 7th, 2024

Length of Activity: 1.0 hour

Method of Delivery: Face-to-face presentation

Presentation Location: Whistler Conference Centre, Whistler, B.C.

Presentation Summary:

The Kohanaiki Clubhouse in Hawaii offers the best in luxury with the least amount of footprint, incorporating sustainable building techniques and modern technology. The Kohanaiki Residential encompasses a collection of expansive ocean view homesites and move-in ready homes, all highlighting the idyllic and unparalleled beauty of the Kona Coast. Designed by renowned architects, these homes are intelligently constructed to blend natural elements, sustainable features, and new technology into effortless luxury. Ōuli Farms is an 840+ acre community offering an unique balance of homes, farms, and club located just above the iconic Mauna Kea Resort on the Big Island of Hawaii. With homes thoughtfully designed and situated across the natural landscape, open space will be preserved to create a profound feeling of being held by ocean, sky, land, and streams. This session explores these high end resort projects' design and implementation through the perspectives of the designer and BC manufacturers supplying its structural and finished products.

The designer will discuss perspectives and implementation of the Kohanaiki Clubhouse, the custom cabinetry design and implementation of BC manufactured cabinets for the Kohanaiki Residential, and the site design and residential homes in design for Ōuli Farms. The BC manufacturers will explain their project collaboration in supplying cabinetry, treated glue-lam beams, steel knife plate connections, and the custom engineering with grain match cladding that provided the project with 58 trusses that each spanned almost 40 feet.

Learning Objectives:

1. Discover the Engineered and Solid Timber design with manufacturing in British Columbia, and the implementation of the timbers into tropical (Hawaii) resort projects
2. Discover custom cabinetry design with cabinet manufacturing in British Columbia, and the implementation of the cabinets into tropical (Hawaii) residential projects
3. Learn about innovative engineering processes, timber drying and finishing, steel plate connections, bringing natural wood authenticity and durability in buildings
4. Learn about site design, clubhouse design, and residential design in Tropical Hospitality

Speaker Profiles:

KAE ELLEDGE, Architecture and Interiors Consultant

Kae's education and experience include an accumulative of 30 years in architecture, construction, and interior design. She received her Architecture degree from the University of Washington prior to moving to Maui. On Maui, Kae worked as Project Architect for Maui Architectural Group. She then transitioned to Design Project Manager at Lanai Development on the island of Lanai, Kukio Resort on the Big Island, and Baker's Bay Golf & Ocean Club in the Bahamas. Kae lead the design team as Director of Design at Kohanaiki on the Big Island and is currently working with the team at Ouli Farms, a Big Island upcountry development. She also offers Architectural, Interior and Construction consulting services to private clients.

Dai (Yoshito) Ona

Business Development & Project Scoping

Founded Daizen Joinery in 1991 As owner and big picture thinker at Daizen, Dai Ona identifies business opportunities and works with clients to bring their project visions to life. He applies his design and building experience to create final products that are distinct, functional and sustainable. Dai conveys both passion and resolve to meet any challenge and leads his team in offering exceptional work at every stage of the design, production and installation process. He has fostered respect and camaraderie among his crew members who reflect his work ethic. Dai's focus on high quality standards and reputation guide decision-making. Dai's experience has been gained through more than two decades working in the building and timber frame industries in Japan, other parts of Asia and Canada. He emigrated to Canada from Japan and started Daizen Joinery in 1990 in Parksville, BC, where he focused his efforts on hand timber building and joinery, and exporting frame products to Asian markets. Dai relocated his business to the Interior of BC in 2004 where he expanded his company to meet the growing needs of the timber frame industry in North America.

Today, his company serves a client base from across Western Canada, the US Pacific Northwest, California and Hawaii. His commitment to ongoing professional development and speaking opportunities keep Dai open to new, innovative ideas, and collaboration within the timber frame industry.

Norelco's President - Peter Raja

Peter embarked on his career in residential construction and related trades back in 1978, quickly assuming management positions at building supply stores in Northern, BC, Canada. In 1994, Peter and his wife made a significant decision to relocate to Kelowna, BC, where they ventured into new business endeavors.

Not long after settling in Kelowna, Peter took on the role of District Sales Manager for Nelson Homes. Within a year, he expanded his expertise into the export market for engineered panelized homes. Recognizing the exceptional quality produced by Norelco Cabinets, Peter, along with two partners, acquired the company, having been long-standing customers and admirers of its products.

Since 2002, Peter has served as President of Norelco Cabinets, skillfully transforming a small cabinet manufacturing plant employing 20 individuals into a thriving 60,000 square feet facility that now provides employment to over 150 people. Peter's visionary leadership has allowed Norelco to flourish internationally, with the company currently manufacturing and delivering cabinetry for high-end luxury projects throughout Western USA, including the Hawaii islands. As the Export Hawaiian Sales Manager for this division, Peter plays a vital role in expanding business into new markets.

Peter's involvement in professional and trade associations showcases his commitment to the industry. He has actively participated in CKCA, BSDA, SICA, and NKBA. Previously, Peter

served on the Board of Directors with CHBA and the Chamber of Commerce. Presently, he contributes as a Director on the Board for BC Wood.

Peter's leadership philosophy reflects his belief in the importance of unity within the organization, stating, "We're all one family. It doesn't matter what your position is in the company—you're as important to the team as any one person." Furthermore, he views recessions as opportunities to connect with people, understanding that building relationships during lean times can yield fruitful partnerships when work becomes more abundant. Peter aspires for Norelco Cabinets to be a high-volume production plant that builds something new every day, striving for continuous growth and innovation.

During weekends, you'll find Peter enjoying various outdoor activities such as boating, camping, skiing, or sledding, accompanied by his family and friends. Additionally, he passionately supports his favorite sports teams, the Montreal Canadiens and the Seattle Seahawks, demonstrating his love for sports and community engagement.

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Provider Name: BC Wood Specialties Group

Course #: WTGBM24-11

Title of Learning Activity: Advanced Timber Architecture & Fabrication

Date of Activity: September 7th, 2024

Presenter name:

Length of Activity: 1.0 hour

Method of Delivery: Face-to-face presentation

Presentation Location: Whistler Conference Centre, Whistler, B.C.

Topic Summary:

Conventional construction is fraught with labor inefficiency, material waste, and environmental impacts, but it is on the cusp of a significant change that will forever alter the way buildings are constructed. While Mass Timber plays an important role in the AEC industry, Advanced Timber takes a forward-thinking approach to the built environment that highlights the limitless design opportunities associated with wood-forward freeform architecture. This seminar explores how a B.C. manufacturer is uniquely positioned to facilitate the growth of Advanced Timber construction in North America through a threefold approach: practicing fabrication-centric integrated project delivery strategies, forming strategic industry alliances, and increasing capacity the capacity of the material supply chain.

Off-site digital fabrication is integral to the Advanced Timber industry. Early manufacturer engagement is crucial to project success, as it enables an informed design process and efficient project execution. By responding to the inefficiency and duplication of work associated with conventional project delivery practices, strategic industry connections can facilitate the integration of traditionally isolated scopes of work. Groundbreaking developments within the

material supply chain—including a large-scale investment in free-form fabrication—are enabling the growth of Advanced Timber through a sustainable approach to inspired architecture.

This session will be presented by industry professionals from Spearhead and Helen & Hard.

Learning Objectives:

1. Understand the unique process and requirements necessary to seamlessly integrate an international team of wood subject matter experts in advanced timber architecture, engineering, and fabrication.
2. Understand how a fabrication-centric integrated project delivery strategy can enable informed design decisions and efficient project execution.
3. Establish how strategic industry connections can facilitate the integration of traditionally isolated scopes of work.
4. Discover the architectural opportunities associated with the progression of free-form fabrication capabilities in North America.

Speaker Profiles:

Ted Hall

Founder, Creative Director

Ted Hall, the founding partner of Spearhead, brings 35 years of experience in custom residential construction and advanced timber fabrication. His passion for extraordinary architecture harmonizes seamlessly with a commitment to innovative project delivery, merging design, technology, and craft. Ted's hands-on approach and exceptional team-building skills have played a pivotal role in establishing Spearhead at the forefront of the industry, where excellence in computer-aided design and mastery in component-based manufacturing distinguish the company as a true trailblazer.

Josh Hall

Partner, Director of Business Development

Having been immersed in the early development and initial growth of Spearhead, Josh's position of Partner and Director of Business Development is deeply rooted in a genuine understanding of the company's ethos and its vision for the future. With more than fifteen years of industry experience spanning architecture, digital fabrication and commercial construction, his in-depth knowledge of design, process, and project delivery has shaped his role in Business Development and is helping guide the progression of Spearhead.

Geoff Watts

Senior Project Manager

In 2022, Geoff became an integral part of Spearhead by establishing a new finishing and coatings department within the company. His versatility and dedication to diverse roles propelled him to excel as a Cabinet Maker, Finishing Department Manager, CNC Operator, Designer, and currently, Senior Project Manager in the Digital Planning Department. Geoff's profound understanding of process, paired with his unique ability to identify innovative solutions to

complex problems, has positioned him as a leader in steering many of Spearhead's most unique projects.

Originally from Nelson, BC, Geoff's formative years were immersed in outdoor pursuits and woodworking, instilling a robust work ethic which continues to be one of his defining qualities. His early experiences of working with his artisan father nurtured his innate passion for hands-on creation and sparked his life-long interest in making.