

## Mass Timber Schools: A 21<sup>st</sup> Century Solution

### Workshop and Tour of Bayview Elementary

**DATE:** Monday, January 16, 2023

**TIME:** 8am Registration; Workshop 8:30am – 2:00pm; Tour 3-4pm

**WORKSHOP LOCATION:** FPInnovations, 2665 E Mall, Vancouver, BC –  
The Assembly Room – free parking available

**TOUR LOCATION:** Bayview Elementary School, 2251 Collingwood St

**COST:** \$129pp – **EARLY BIRD RATE \$99 until January 6<sup>TH</sup>!**

**REGISTER:** wood-works.ca/bc

**A4LE MEMBERS SAVE 15%**



Bayview Elementary, Vancouver, BC  
Photo credit: Nicolas Romero Glen

**DESCRIPTION:** Timber technologies and techniques are rapidly evolving, opening new possibilities for school design. From hybrid-mass timber construction to factory-built prefabrication, the opportunities for the use of wood in schools are quickly expanding. This workshop explores how wood-built schools can boost students' well-being, cut carbon, speed up construction and offer flexible, earthquake-resistant design.

**WHO SHOULD ATTEND?** This workshop is designed for architects, engineers, building officials, school planning officials, facilities managers and contractors who have a role in designing, planning, and building tomorrow's centres of learning today.

**SPACE IS LIMITED SO BE SURE TO REGISTER EARLY!!**

### AGENDA:

#### 8:30am

Welcome/Introduction

#### 8:30am – 9:30am

Ray Wolfe, Partner, Thinkspace Architecture Planning Interior Design and Nick Bevilacqua, Principal, Fast+Epp  
**Design Options for 3 and 4 Storeys Wood Schools**

Ray Wolfe will be co-presenting with Nick Bevilacqua on the first topic. Their talk will be premised on the notion that wood is an inherently valuable resource for the design and construction industry, particularly in the education sector. They will explore the use of wood in 3-4 storey mass timber schools along with findings from the FI's report on Wood Use in Schools in BC.

#### 9:30am – 10:00am

Ray Wolfe, Partner, Thinkspace Architecture Planning Interior Design

#### The Advantages of Designing Schools with Wood

In this presentation Ray will then explore wood use in recent K-12 education and post-secondary projects from his practice and share some of the key lessons learned on these projects.

#### 10:00am – 10:30am

Nick Bevilacqua, Principal, Fast+Epp

#### Structural Considerations for Mass Timber Schools

Review mass timber structural systems commonly considered for school buildings; discuss design considerations / constraints specific to school buildings; discuss bidding and construction requirements specific to mass timber construction; and present construction examples and "lessons learned" from the two mass timber schools in Vancouver, Bayview and Sir Matthew Begbie Elementary Schools.

#### 10:30am – 11:00am

Coffee Break

#### 11:00am – 12:00am

Steven Snyder, Senior Project Manager, Vancouver School Board (SD #39 – Vancouver)

#### School Design: Towards a More 'Natural' and 'Flexible' Learning Environment

The primary focus of this presentation is a description of the process and design considerations for a CLT structure, from an Owner's Project Management perspective. The design and construction of Sir Matthew Begbie Elementary School (SD #39) in east Vancouver required a rethinking of both school design and construction, deviating significantly from typical 'standard wood frame', 'steel' and 'concrete' facilities built in the District. Discussion points include budgeting, process, procurement, code considerations, design considerations, and "lessons learned".

#### 12:00am – 1:00pm

Lunch

#### 1:00pm – 2:00pm

Andrew Weyrauch, Principal, Francl Architecture

#### Exposing Maximum Wood

Over the course of the design and construction of Bayview Elementary, in the Kitsilano neighbourhood of Vancouver, unexpected challenges and opportunities revealed themselves as the use of mass timber was maximized as a structural system. Strategically exposing wood in key areas of the school resulted in a warm and rich environment while prefabrication of the timber components led to potential for cost and time savings during construction.

#### 2:00pm – 3:00pm

Travel to Bayview in own vehicle – off-street parking

#### 3:00pm – 4:00pm

Tour of Bayview Elementary School

## SPEAKER BIOS



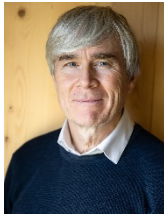
**Ray Wolfe, Partner, Thinkspace Architecture Planning Interior Design**

Ray is an award-winning architect and partner at Thinkspace. He is a long-time proponent of mass timber and wood construction in schools, and is the principal architect for the four-storey mass timber Robert G. Kuhn Centre at Trinity Western University. Ray also led the team on a new report titled, "Wood Use in British Columbia Schools."



**Nick Bevilacqua, Principal, Fast+Epp**

Drawing from almost 20 years of industry experience, Nick has a broad knowledge base that enables him to be fluent in all building types and primary structural materials. Nick also has considerable experience in the education sector, and is currently working on a number of schools throughout British Columbia that feature various configurations and degrees of timber construction.



**Steven Snyder, Senior Project Manager, Vancouver School Board (SD #39 – Vancouver)**

Graduate of the University of Toronto, Faculty of Architecture in 1991, with experience both as a self-employed designer and working in numerous architectural firms in Ontario and BC. Over that time, he specialized in mass timber design and community based housing projects. Currently working at SD #39 overseeing new elementary school facilities as part of the province's Seismic Mitigation Program.



**Andrew Weyrauch, Principal, Francl Architecture**

As a Principal at Francl Architecture with more than twenty years of local experience, Andrew has contributed to the practice's advocacy for the use of natural wood finishes and structural systems in architecture. Andrew's family has deep roots in both the timber industry and local and international architecture and he brings a passion for the use of locally sourced materials that support regional industries.

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