All of the post-and-beam structure is connected to the light wood-frame infill walls to make sure the wind forces are transferred to the new reinforced concrete foundation walls. (The original foundation was removed.) Treated lumber and sheathing was used for all light wood-frame portions of the building.

The dramatic copper-clad domes are built from a hybrid of glulam, dimensional lumber and curved plywood. The largest of the five domes weighs just under 20 tons and bears directly on a 43 ft. by 43 ft.-long span glulam space-frame truss. Domes and copper were constructed on the ground and lifted into position by crane.

The exterior siding is a combination of board and batten over Dolly Varden (shiplap) siding. One of the problems with the old building was that much of the horizontal shiplap was curling. To eliminate that problem in the new building a more robust section with a Dolly Varden profile was used to allow the back half of each board to rest flat against the furring strips. All exterior siding and soffits are treated pine.

All doors in the building are solid Douglas fir. Even the fire-rated assemblies are clad in Douglas fir, whereas the rest of the interior and exterior doors are solid Douglas fir built on-site with 2 x 6 solid lumber. The floors, also solid Douglas fir, were carefully designed and installed over a radiant floor system on a programmed control that will maintain a stable temperature year-round and minimal operating energy levels.

A passive gravity ventilation system takes advantage of the natural stratification of the tall interiors by redistributing the naturally warmed and cooled air throughout the building. The wood wall system carefully layers in closed-cell insulation that doubles as a tight air-and-water barrier for the building. The radiant system, passive gravity ventilation and exterior insulation systems all combine to create a highly energy-efficient building – one designed to stand the test of time.

CLIENT
St. Elias Ukrainian Catholic Church
Brampton, ON

ARCHITECTS
Zimmerman Workshop
Architecture + Design
Brooklyn, NY

DKStudio Inc.
Toronto, ON

STRUCTURAL ENGINEER
Moses Structural Engineers Inc.
Toronto, ON

GENERAL CONTRACTOR
Santoro Construction Inc.
Mississauga, ON

PHOTOGRAPHY
Janet Kimber
Toronto, ON

FOR RELEASE NOVEMBER 15, 2016 (after 7:30 pm EASTERN)

Attention Design / Architectural / Building /Environmental / Community News Editors and Reporters
WINNERS FROM: Toronto, London, St. Catharines, Hamilton, Brampton, Port Sydney, North Bay, Ottawa, and Cape Croker – HIGH RESOLUTION PHOTOS AVAILABLE

Ontario Wood *WORKS!* 2016 Wood Design Award Winners Announced

(Toronto, November 15, 2016) A select group of Ontario's leading architects, engineers, and project teams received Wood Design Awards tonight at the 16th annual Wood *WORKS!* celebration in Toronto. The awards honour people and organizations that, through design excellence, advocacy, and innovation, are advancing the use of wood in all types of construction.

"We are pleased to recognize excellence in modern architecture, and to honour leadership in wood design and construction through the Wood Design Award program," said Marianne Berube, executive director of the Ontario Wood *WORKS!* program. "The winning projects of this year's program showcase the many benefits of wood construction such as sustainability, versatility, and cost-effectiveness."

Ontario Wood *WORKS!* presented 13 awards at the event. Ten awards went to specific wood projects and three were given to professionals for contributions to the building industry that advance the case for wood design and construction.

"Wood use is definitely increasing in the province and around the world, and not just because codes now permit its use in a wider range of buildings," said Berube. "Wood has significant environmental advantages over competing materials and, with construction professionals and designers seeking lower carbon building alternatives and renewable materials, they are increasingly motivated to build with wood."

Prefabrication is also creating interesting new opportunities for wood construction, demonstrating that wood can outpace even its own relatively quick construction speed. In many applications, designers and developers are reporting significant time and cost savings. Today's wood products are more technologically advanced than ever and project teams are using these high-performance building materials in exciting ways, actively and imaginatively exploring wood's expanding potential.

Wood *WORKS!* is a national, industry-led initiative of the Canadian Wood Council that promotes and supports the use of wood in all types of construction. Working with the design community, Wood *WORKS!* connects practitioners with resources related to the use of wood in commercial, industrial, institutional and multi-unit residential construction, assists in product sourcing, and delivers educational seminars and training opportunities to existing and future practitioners.

Individual project profiles and high-resolution colour photos available on request.
For additional information or to arrange interviews contact Sarah Hicks:

1-866-886-3574 ext. 3 • 1-705-796-3381 (cell / best) • shicks@cwc.ca

www.wood-works.ca/ontario

	The main, wood-lined, 780-seat Partridge Hall is designed for many different types of performances. Wood was deemed the most effective material to provide a reflective surface to enhance the acoustic clarity of the room as well as create a sense of quality and craftsmanship. Locally-sourced red oak forms the curved panel elements on the walls and ceilings, giving acoustic shape to the room. Pivoting acoustic panels line the stage sides and ceiling and can be raised or lowered to carefully calibrate the performance to the hall's dimensions so that patrons not only hear well but also feel and experience the music within an intimate setting. A series of hard-surfaced reflective elements have been integrated into the architecture of the room to diffuse sound towards the audience. The wood stage also has the ability to act as a resonator for bass-stringed instruments pegged into the floor. The wood stage is comprised of a fixed steel framework with a resilient wood floor system that has an open wood cavity. When heavy stringed instruments are inserted into the bass pegs, the open wood cavity amplifies the sound from these instruments.
Residential Wood Design Award *Sponsored by Ontario Structural Wood Association*	**<u>Project: Bridgehouse, Port Sydney, ON</u>** **Architect: LLAMA Architecture and Urban Design** **Engineer: Blackwell** Conceived as a horizontal line to counterpoint its setting atop a ravine, the 2,400 square foot Bridgehouse is both a dwelling and an object that compliments and emphasizes the natural condition of its territory. The open plan living room at its centre is suspended 5m above forest floor, acting as a viewing gallery that places the user within the tree canopy to witness the four seasons of Ontario's constantly changing landscape. The key structural element is the glue-laminated Douglas-fir struts that push the boundaries of wood as a material, allowing the bridge to span 18 metres across a ravine. The design permits the house to have a structure free lakefront façade that includes a 12 metre long sliding door system that converts the living room into a covered porch when opened. The rear strut doubles as the stringer for a staircase connecting the main floor to a 2000 square foot roof deck. Unlike a traditional house, the Bridgehouse has a bottom, or a fifth façade. This, along with the exterior walls, is clad in unstained cedar intentionally left to weather naturally. This celebrates the resiliency of the material, giving the house a dynamic character, designed to change.
Multi-Unit Wood Design Award *Sponsored by Weyerhaeuser*	**<u>Project: Templar Flats, Hamilton, ON</u>** **Architect: Lintack Architects Inc.** **Engineer: Strik Baldinelli Moniz** Templar Flats is a unique urban infill project that combines the adaptive reuse of two existing structures with new construction in between them to create a uniquely attractive building. The upper floors are comprised of 25 spacious rental residences, while the street level offers four new restaurant spaces. This mixed-use building was the first 6-storey wood-frame project completed in Ontario under the new mid-rise code provisions.
Institutional-Commercial Wood Design Award **< $10 M** *Sponsored by Carpenters & Allied Workers Local 27*	**<u>Project: St. Elias Ukrainian Catholic Church, Brampton, ON</u>** **Architect: Zimmerman Workshop Architecture + Design and DKStudio Architects Inc.** **Engineer: Moses Structural Engineers** This heavy timber church is modeled after the architectural style known as "Boyko," from the western part of Ukraine. This distinctive style features iconic copper clad domes visible from a great distance. The heavy timber (glulam) and wood construction on a concrete and stone base comprises the entirety of the building, including each of the five domes. The timber construction portion of the building measures over 75 feet in height (approximately a 7 storey building) from the base up to the foot of the highest cross.