



eBIMc

REGIONAL SESSION

Transformation Towards Digital Project Delivery



EDMONTON

June 12-13, 2019

NAIT
Productivity and Innovation Centre
10210 Princess Elizabeth Ave NW,
Edmonton, AB
T5G 0Y2

#CANBIMEDM19

Register

Sponsor

Digital innovation is fast becoming the cornerstone to driving business value in many owner-design-construction (AECO) organizations. Whether digital innovation is enhancing, transforming or reinventing business models and operations, it is well established that investing in digital innovation is fundamental to success. Organizations across the real estate and construction supply chain – from owners to suppliers – are adopting digital strategies that leverage disruptive technologies such as cloud-based collaboration, IoT, automation/robotics, AR/VR, and machine learning/AI. Using these strategies lead to improved productivity, quality, and customer experiences.

Edmonton is at the heart of the prairies and has a pioneering, innovative spirit. We will host technology leaders and senior management executives who are driving business value through adopting digital innovation strategies which will transform our project delivery.

Supporting Event Sponsors





CanBIM Project Site Tours

8:00AM-4:30PM

(Tour times subject to change, seating is limited and is first come first served)

CanBIM Tours include a project orientation and presentation prior to a guided tour.

- 8:00AM - 10:30AM** Stantec Tower
- 10:30AM - 2:00PM** Edmonton Light Rail Transit Valley Line
- 2:00PM - 4:30PM** Royal Alberta Museum



CanBIM Meet & Greet

LUX Steakhouse & Bar 94 10150 101 St NW, Edmonton, AB T5J 3P4

6:00PM-8:00PM

Come kick off the Edmonton Regional Session at our Opening Meet & Greet. This is a great opportunity to connect with other conference attendees and colleagues in a casual relaxed atmosphere. Attire is business casual.



Event Fees

MEMBERS

- Tour **\$40**
- Morning Session **\$225**
- Afternoon Session **\$225**
- "Meets & Eats" Dinner **\$135**
- Day 2 Full Access **\$535**

NON-MEMBERS

- Tour **\$50**
- Morning Session **\$260**
- Afternoon Session **\$260**
- "Meets & Eats" Dinner **\$150**
- Day 2 Full Access **\$625**

STUDENTS

- Tour **\$40**
- Morning Session **\$50**
- Afternoon Session **\$50**
- "Meets & Eats" Dinner **\$135**
- Day 2 Full Access **\$220**

GROUPS (4 or more)

- Tour **\$50**
- Morning Session **\$200**
- Afternoon Session **\$200**
- "Meets & Eats" Dinner **\$135**
- Day 2 Full Access **\$500**

- 7:30AM** Event Registration Opens
- 7:30AM** Technology Exhibition Opens (All Day)
- 8:00AM-8:30AM** CanBIM Welcome Address, Education & Certification Update
- 8:30AM-10:00AM** Technology Information Session 1A - Creating Project Efficiencies by Leveraging BIM in the Field, John Prior, Customer Success Manager, Autodesk ACS Assemble Systems
- 8:30AM-10:00AM** Technology Information Session 1B - A critical look at Level of Development (LOD), Daniel Doherty, VDC Manager, PCL Construction
- 8:30AM-10:00AM** Technology Information Session 1C - Digital Project Delivery - The Practical Applications of BIM, Asset Information Management and Integration, Steve Mahaney, BIM Technologist & Brittany Mendiuk, BIM Technologist, Alberta Infrastructure
- 10:00AM-10:45AM** NETWORKING TECHNOLOGY EXHIBITION    
- 10:45AM-12:15PM** Technology Information Session 2A - The ROI of VDC, OMG!, Reed Munro, VDC Lead & Jeremy Reimer, VDC Coordinator, Clark Builders
- 10:45AM-12:15PM** Technology Information Session 2B - Navigating The Legal Pitfalls of BIM, Rohit "Roddy" Handa, Lawyer, Architect, Problem Solver, Holoblok Architecture
- 10:45AM-12:15PM** Technology Information Session 2C - Demystifying COBie, David Spehar, Client Solutions Manager, dRofus
- 12:15PM-1:15PM** LUNCH  
- 1:15PM-1:30PM** CanBIM Announcements
- 1:30PM-2:00PM** Executive Leadership Presentation 1 - Construction Technology Adoption, and the Future of Our Industry, David LeMay, President and CEO, Stuart Olson Inc.
- 2:00PM-2:30PM** Executive Leadership Presentation 2 - Improved Outcomes across the construction continuum, Andrew Sharman, Vice President, Facilities and Operations, University of Alberta
- 2:35PM-3:20PM** NETWORKING TECHNOLOGY EXHIBITION    
- 3:20PM-3:50PM** Executive Leadership Presentation 3 - Beyond Design & Construction - the Future of Making Buildings, Allan Partridge, Principal, Next Architecture
- 3:50PM-4:50PM** Executive Panel Discussion - Panel Discussion: Transformation Towards Digital Project Delivery
- 4:50PM-5:00PM** Closing Remarks
- 5:00PM-6:00PM** CLOSING RECEPTION   
- 6:30PM-8:30PM** CanBIM "Meets & Eats" Networking Dinner

CanBIM is an approved registered course provider



The Alberta Association of Architects
Architects and Licensed Interior Designers

Early Morning Sessions

8:30AM-10:00AM

Attendees will be able to select only ONE (1) of the THREE (3) Morning Sessions.

Technology Session 1A - Trades - PIC 232 - 8:30AM-10:00AM

Creating Project Efficiencies by Leveraging BIM in the Field

Presenter: John Prior, Customer Success Manager, Autodesk ACS Assemble Systems

Session Summary: In this presentation, we will share how you can leverage the BIM data, 2D Drawings and project documents in your construction workflow to improve project delivery. Best practices will be shared on how to classify objects by activity ID, bid packages, cost code, VE options, and zones/areas during preconstruction so a constructible model is delivered to the field team for workflows including work in place tracking, production tracking, scheduling and more.

Technology Session 1B - Designer - PIC 233 - 8:30AM-10:00AM

A critical look at Level of Development (LOD)

Presenter: Daniel Doherty, VDC Manager, PCL Construction

Session Summary: Level of development (LOD) is one of the most fundamental concepts of BIM. It was developed to facilitate BIM utility through the building lifecycle and is typically part of every BIM execution plan (BEP). An LOD matrix provides the framework to exchange both geometrical and qualitative digital information between stakeholders. However, LOD is commonly the most ambiguous part of any BEP. The definition is often customized, and the terminology modified to align with an already contracted scope, essentially eliminating the whole purpose of defining a LOD. Through the past decade, the AEC industry has struggled to find a way to utilize BIM without altering existing design and construction processes and deliverables. Consequently, LOD has overtime morphed and devolved into something that fits within the industry's comfort zone of BIM. This presentation will bring LOD back to its intended purpose and examine how, and if, it can be used effectively by all stakeholders. LOD may be a practical solution for robust information exchange; however, as it stands, LOD is a square peg in a round BIM.

Technology Session 1C - General - PIC 234 - 8:30AM-10:00AM

Digital Project Delivery - The Practical Applications of BIM, Asset Information Management and Integration

Presenter: Steve Mahaney, BIM Technologist & Brittany Mendiuk, BIM Technologist, Alberta Infrastructure

Session Summary: This presentation will cover the practical aspects of capturing digital information from Building Information Models, combining that information with a COBie deliverable and finally integrating that information into an asset information management system.

Examples from current and past Alberta Infrastructure capital projects will be discussed. What sort of process is Alberta Infrastructure using? What are the challenges when integrating BIM and COBie? What stakeholders need to be involved and when do they need to be involved? What are maintainable assets? How do owners utilize these new deliverables? These are the key questions involved in Digital Project Delivery. This presentation will inform the audience of technical aspects in producing the deliverables."

Late Morning Sessions

10:45AM-12:15PM

Attendees will be able to select only ONE (1) of the THREE (3) Morning Sessions.

Technology Session 2A – General - PIC 232 - 10:45AM - 12:15PM

The ROI of VDC, OMG!

Presenter: Reed Munro, VDC Lead & Jeremy Reimer, VDC Coordinator, Clark Builders

Session Summary: How much does a problem cost that doesn't happen? This is the main question we try to answer in our presentation "The ROI of VDC, OMG!" Everyone wants to know what the return on investment is for BIM, but it can be a very tricky exercise to determine.

At Clark Builders we asked the very same question and set out to determine how much money was saved from one of our current VDC projects. This typical, real world, Calgary based project digs deep into project BIM and VDC costs by leveraging the people and technology. By quantifying issues, process enhancements, and comparing back to traditional methods we were able to determine the total cost saved for our project.

Technology Session 2B – Designer - PIC 233 - 10:45AM - 12:15PM

Navigating The Legal Pitfalls of BIM

Presenter: Rohit "Roddy" Handa, Lawyer, Architect, Problem Solver, Holoblok Architecture

Session Summary: Design and construction are changing. With the emergence of new technologies and processes in the industry, one of the biggest perceived barriers to truly collaborative workflows are the legal implications of working in a new way. These barriers are often attributable to misunderstandings and a fear of the unknown. They can often be easily overcome by aligning expectations and contractual responsibilities.

This presentation will dispel some of the myths associated with BIM workflows and provide attendees insights on how to navigate the legal pitfalls. It will educate individuals on how to address conflicts between organizations and how to overcome common issues that arise during a BIM based project.

Technology Session 2C – Civil - PIC 234 - 10:45AM - 12:15PM

Demystifying COBie

Presenter: David Spehar, Client Solutions Manager, dRofus

Session Summary: What really is COBie, what does it mean to deliver COBie and how much will it cost me? As more and more building owners are starting to adopt BIM standards, increased pressure is put on design and construction teams to provide data deliverables at handover. Many times in a COBie format. In this session we will address the who's, what's, why's and how's around capturing, managing and ultimately delivering COBie.

We'll explain the importance of understanding the building owner's needs for capturing data to ensure teams efficiently collaborate to meet requirements with minimal waste and rework. We'll then look at an example of using dRofus to manage the COBie data in a collaborative platform and how it can be used to provide a true COBie-compliant BIM deliverable – not just a COBie spreadsheet.



Afternoon Session - Executive Speaker Series

1:30PM-4:50PM

Event attendees will hear from industry executives and senior management professionals about their vision and strategy around technology adoption and how technology is driving business value at their organization.

Executive Leadership Presentation 1 - 1:30PM - 2:00PM

Construction Technology Adoption, and the Future of Our Industry

Presenter: **David LeMay, President and CEO, Stuart Olson Inc.**

Presenter Bio: Mr. LeMay was appointed President & CEO effective June 1, 2013. Prior to that David served as President & COO from July 2012 to May 31, 2013. Previously, David was President of Stuart Olson Industrial Group, which provides integrated products and services on behalf of the industrial sector for the company. Mr. LeMay has also served as President and COO of Stuart Olson's Laird Electric Inc. subsidiary. During his 25 years in the construction industry Mr. LeMay has been involved in all aspects of the field from estimating through project management. David is a licensed construction electrician and has an MBA from Queens University.

Executive Leadership Presentation 2 - 2:00PM - 2:30PM

Improved Outcomes across the construction continuum

Presenter: **Andrew Sharman, Vice President, Facilities and Operations, University of Alberta**

Presentation Summary: The capital constructions costs account for only around 10% of the life-cycle of a building. We also know that our historical practices (concept through design to construction) are not 'lean' and we have up to 30% waste in labour, materials and time.

We have to be more collaborative, innovative and forward thinking across the full spectrum of a projects life-cycle. This needs to be more integrated from the outset with owners being clear as to the desired outcome and realistic given available funding, while relying on expert consultants, contractors and trades to provide advice so long-term sustainability of facilities is not compromised in the design and construction phases. We have an opportunity though collaboration from the outset to demonstrate and improve the interdependent benefits of financial and environmental sustainability - they have to go hand in hand rather than being a choice!

Executive Leadership Presentation 3 - 3:20PM - 3:50PM

Beyond Design & Construction - the Future of Making Buildings

Presenter: **Allan Partridge, Principal, Next Architecture**

Presentation Summary: Allan will discuss the end of design & construction as we know it and the ascendancy of Making Buildings and the re-emergence of the Master Builder, not as an individual but as a process. Together we will explore how this transformation might take place, the key players and their role both direct and indirect. It will explore how emergent technologies will be used in this radical transformation of our industry as we leave design & construction and move into a new era where Making Buildings will have downward trends towards cost certainty, schedule predictability, increased preservation of quality and the reduction of the carbon footprint.

Afternoon Session - Executive Speaker Series

1:30PM-4:50PM

Event attendees will hear from industry executives and senior management professionals about their vision and strategy around technology adoption and how technology is driving business value at their organization.

Executive Panel Discussion - 3:50PM - 4:50PM

Moderator:

Rohit Handa, Lawyer, Architect, Problem Solver, Holoblok Architecture

Panelists:

Josh Taron, Co-Director of the Laboratory for Integrative Design, University of Calgary

Allan Partridge, Principal, Next Architecture

Greg Topinka, Director - Capital Projects, NAIT

Derek Blayney, P. Eng., General Manager, Baggage and Civil Construction and Infrastructure, The Calgary Airport Authority

Andrew Sharman, Vice President, Facilities and Operations, University of Alberta

Closing Reception

5:00PM-6:00PM



Join us for a beverage and some hors d'oeuvres.

"Meets & Eats" Dinner

LUX Steakhouse & Bar 94 10150 101 St NW, Edmonton, AB T5J 3P4

6:30PM-8:30PM

Event attendees will have the chance to sit down and break bread with technology leaders. Executive "Meets & Eats" are an intimate, exclusive and curated opportunity to build your network.



Technology Exhibition

DAY TWO

June 13, 2019



Technology Exhibition

Atrium (Open to all registrants)

7:30AM-5:00PM

The CanBIM Technology Exhibition showcases the latest innovative technologies from industry leading technology companies. A great business opportunity to connect with the AECOO industry professionals.

Exhibitor Package Includes (per event)

Two (2) Event Registrations per event

- Exhibitor Profile on CanBIM Mobile Event App
- Exhibitor Logo Placement on main event screen during breaks
- Exhibitor Table - 3X6 table with two chairs
- Attendee List

Exhibitor Package Does Not Include:

- Power Access
- AV Equipment
- Table Linens
- Parking
- WiFi

Exhibitor Package Fees

*plus applicable taxes

CanBIM Member Price: **\$1250**

Non-Member Price: **\$1600**



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