

2nd

Two-Day Event!

"Great discussion on CPD and BIM."

"I was impressed to see that innovation is happening."

"Benefited positively."

May 1 & 2, 2014, Vancouver

# Reinventing Construction Project Delivery

Bringing out the best in BIM and collaborative project delivery

Workshop Included: Setting Up A Collaborative Project



Charles Leman,  
Bing Thom  
Architects



Owen Pawson,  
Miller Thomson  
LLP



Rajesh  
Acharya,  
Summit  
Technologies



Scott  
Chatterton,  
CEI  
Architecture  
Planning  
Interiors



Steve Fleck,  
Stantec



Rodrigo Freig,  
WSP Canada  
Inc.



Jonathan R.  
Huggett,  
JR Huggett  
Company



Graham Hyde,  
Lockerbie &  
Hole

## participating organizations

Bing Thom Architects  
Capital Decisions Inc.  
CEI Architecture Planning Interiors  
DIALOG  
Group2 Architecture and Engineering Ltd.  
JR Huggett Company

Lockerbie & Hole  
Miller Thomson LLP  
PCL Construction Management Inc.  
Stantec  
Summit Technologies  
WSP Canada Inc.

## who should attend

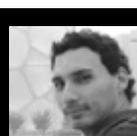
Senior professionals & public officials involved in construction projects; owners, developers, contractors, architects, project managers; experts in risk, procurement, design; lawyers & consultants

## course highlights

Practical approach to integrated project delivery: key principles  
Principles of collaborative project delivery  
BIM collaborative delivery  
Setting up a collaborative project  
Risk management  
Municipal project delivery  
Practices during pre-construction planning  
Building an integrated team to deliver a project  
Trends in collaboration & integrated project delivery



Scott Matheson,  
PCL  
Construction  
Management  
Inc.



Hernando  
Mogollon,  
DIALOG



Gary Morrison,  
Capital  
Decisions Inc.



Allan Partridge,  
Group2  
Architecture and  
Engineering Ltd.



## COURSE LEADERS

### CHARLES LEMAN

Charles Leman is an Architect and BIM specialist at **Bing Thom Architects**. Currently assigned to the Xiqu Centre project, he is also spearheading implementation and training as the firm solidifies its transition from traditional CAD to BIM.

### OWEN PAWSON

Owen Pawson is a Managing Partner at **Miller Thomson LLP**. He practices construction law, assisting governments, crown corporations, construction companies, architects, engineers and interior designers to identify issues and resolve conflicts in construction law.

## CO-LECTURERS

### RAJESH ACHARYA

Rajesh Acharya is a Collaboration Specialist at **Summit Technologies**. He combines his architectural knowledge with a passion for technology to enable clients to work more effectively in a true collaborative environment.

### SCOTT CHATTERTON

Scott Chatterton is the BIM manager for **CEI Architecture**, one of Canada's leading architectural firms for public and commercial projects. Scott has over 20 years of industry experience and has a long history of using Autodesk products as an architectural technician, Autodesk-certified AEC instructor, CAD manager, and now as a BIM manager.

### STEVE FLECK

Steve Fleck is Vice President and Practice Leader, Major Projects and Public Private Partnerships, for **Stantec**. He is a senior professional with more than 25 years of experience in engineering, and project & business management.

### RODRIGO FREIG

Rodrigo Freig is Technical Manager - Structural Engineering at **WSP Canada Inc**. He has 14 years of experience in structural engineering and is a Revit structures instructor at BCIT and VCC.

### JONATHAN R. HUGGETT

Jonathan Huggett is Principal with **JR Huggett Company**. He is a specialist in the non-traditional delivery of public infrastructure, using innovative approaches to procuring and delivering public projects and services.

### GRAHAM HYDE

Graham Hyde is VDC Manager at **Lockerbie & Hole**. He focuses on the strategic use of BIM/VDC to augment business development, the bidding process, the planning process and project delivery.

### SCOTT MATHESON

Scott Matheson is Director, Business Development Alberta with **PCL Construction Management Inc**. He has developed a collaborative project delivery organization designed to support the needs of the Alberta provincial government.

### HERNANDO MOGOLLON

Hernando Mogollon is a BIM Manager at **DIALOG**.

### ALLAN PARTRIDGE

Allan Partridge is a principal with **Group2 Architecture Interior Design Ltd**. Allan has been practicing architecture for 25 years. Allan's involvement in all aspects and phases of his projects brings extensive experience to fast-tracked, construction management processes where budget, schedule and function are major issues

### GARY MORRISON

Gary Morrison is Managing Director with **Capital Decisions Inc**. Gary has over 20 years of professional experience in real estate and corporate finance. He has worked in a variety of sectors advising clients on fund raising, partnering, procurement and acquisition/divestment matters.

# COURSE PROGRAM



## PRINCIPLES OF COLLABORATIVE PROJECT DELIVERY

Collaborative project delivery breaks down the silos of responsibility, requiring close cooperation among all major participants, and aligning participant success to project success. This session will examine the principles of effective collaborative project delivery, which must be achieved for success.

- Establishing mutual respect and trust
- Setting out structure for mutual benefit and reward
- Best practices for collaborative innovation and decision making
- Early involvement of key participants
- Determining early goal definition

## BIM COLLABORATIVE DELIVERY

Many involved in the construction industry have turned to building information modeling (BIM) because of its potential to radically improve collaboration needed in design and construction. When used effectively, BIM practices can reduce errors and lessen the overall risk of the project. This session will explore how to take advantage of BIM collaborative delivery methods.

- Overview of the key concepts and usage of BIM: BIM characteristics
- BIM as a contract tool
- Implementing and managing a BIM model throughout the life of the project
- Key legal issues surrounding the usage of BIM
- Determining if your project is suited for BIM: barriers to BIM



## AV Proceedings

Audio/video segments clickable slide by slide  
Papers and overheads also included  
Print any of the material for your own use

## SUPPLEMENTARY COURSE MATERIAL

Federated Press is now providing delegates with access to an innovative new database containing at least 25 interactive multimedia presentations by leading experts including approximately 20 hours of lectures on the topics covered by this course, including all slides and speakers' papers. See the list of presentations on page 4.



## MUNICIPAL PROJECT DELIVERY

This practical session, presented by a consultant who has delivered hundreds of municipal projects, will look at the particular issues that arise when municipalities engage in collaborative projects involving non traditional delivery.

- Review of collaborative delivery options for municipal projects
- Adapting the process: collaboration between public and private sector players
- Logistics of having a municipality as a team member
- Practical lessons learned from real life projects, such as transportation, water, civic buildings, solid waste and others

## BUILDING AN INTEGRATED TEAM TO DELIVER A PROJECT

Through the adoption of collaborative delivery practices, project outcomes are enhanced through the alignment of incentives and goals of the project team through shared risk and reward and early involvement of all members of the project team. This session will examine best practices for building an integrated team to deliver a collaborative project.

- Who should be included in the team
- Establishing principles of trust and transparent processes
- Methods for enhancing effective collaboration and information sharing
- Ensuring team success is tied to project success
- Setting out shared risk and reward
- Establishing project team decision making

## EFFECTIVELY INTEGRATING THE SUB-TRADES IN COLLABORATIVE PROJECT DELIVERY

For effective construction project delivery, sub-trades should be viewed as partners in delivering successful project outcomes, as they are a large part of the delivery system. This session will address best practices in integrating the sub-trades in collaborative project delivery.

- Innovative business models to support sub-trade integration and collaboration
- Utilizing the knowledge and expertise of sub-trades
- Incorporating sub-trades in project team: defining roles and responsibilities
- Risk management: risk allocation and reliance associated with sub-trades

## PRE-CONSTRUCTION PLANNING

Building information modeling radically transforms the design and construction process. This case study discussion details how BIM and the collaborative process has changed the flow of operations at CEI.

- Developing protocols and work flows to facilitate collaboration
- How changing operations flow can create efficiencies in the design process
- Achieving cost savings: eliminating inaccuracies, redundancies, and waste generated from conventional building design practices
- Achieving integrated project delivery through early design team collaboration
- Bringing greater clarity, consistency, and quality to the design process

## TRENDS IN COLLABORATION & INTEGRATED PROJECT DELIVERY

There is a growing emphasis on greater sustainability and less waste in project delivery for construction projects, highlighted by a growing trend towards the use of collaborative project delivery and the use of building information modeling. This discussion will explore the latest developments as it relates to the design process.

- Project delivery model evolution: where it is heading
- Emerging collaborative project delivery models
- Developments in BIM technology and how it can be applied to enhance project delivery
- Lessons learned in collaborative project delivery to date

## REVOLUTIONIZING CONSTRUCTION PROJECTS

As an integrated project database that represents all of a building's physical and functional aspects, BIM results in improved design quality, field productivity, cost predictability, as well as reduced conflicts and construction costs & duration. This session will take a practical look at how to transform your project delivery through BIM.

- Integrating all design, procurement, assembly & operational aspects of construction
- Incorporating input from designers, project managers, contractors and building owners
- Highlighting how architectural, structural, mechanical and electrical elements impact each other's performance and constructability
- Practical steps in creating an implementation plan

## WORKSHOP

### SETTING UP A COLLABORATIVE PROJECT

With collaborative project delivery, the measure of success is project-centric, requiring a realignment of participant roles, underlying motivations and sequences of activities in order that each participant's talents and abilities can be most effectively utilized. This session will provide a step-by-step process for setting up a collaborative project.

- Cultural, technological and organizational barriers to using collaborative project models
- Project team formation and team building
- Defining roles, responsibilities and scopes of services
- Defining and measuring project outcomes: goals & standards
- Challenges to implementation

# MULTIMEDIA

Your registration includes an interactive multimedia CD-ROM comprising the following presentations from recent Federated Press courses and conferences. They are presented in their entirety with complete audio and accompanying slides.

For an additional \$175 to the registration fee, you can receive the multimedia proceedings of this course on CD-ROM, containing all presentations given at this event. If not registered for the event, the cost of this CD, is \$599.

To receive the presentations described below as well as the presentations given at the event, the cost is \$799.

## Managing Construction Risk in Real Estate Development

Steven D. Ness  
Surety Association of Canada

## Convergence of Strategic and Project Management

Alan W. Kennedy  
Gibson Kennedy & Company

## A Guide to Risk Management Practices

Ashish Kothiyal  
Ontario Realty Corporation

## Building and Motivating the Project Team

Vajitha Ghouse  
Ministry of Government Services

## Implementing Collaborative Decision Making

Monica Bialski  
eManagePro et eManageFlorida

## Strategic Project Management Best Practices

Ron Noble  
The Credit Valley Hospital

## Scope Management

Brian Sirbovan  
Stantec Inc

## The Three Most Important Tools of Cost Control

Brian T. Sirbovan, P. Eng.  
Stantec Inc.

## Cost Estimation: Establishing Cost Baselines for Project Stages

Alan Kennedy  
Gibson Kennedy & Company

## Strategic Project Management to Survive Tough Times

Dorothy Millman  
SBS Communications Inc.

## Documentation for Project Finance

Shamshad Madhok  
PricewaterhouseCoopers LLP

## Public Private Partnerships & International Project Finance

Mark W.S. Bain  
Bennett Jones LLP

## Project Finance Modeling

John Pak  
CIT Energy and Infrastructure

## Determining the Feasibility of a Project

Andrew Kidd  
CBRE Global Consulting

## Populating and Energizing the Project Team

Hadi Mahabadi  
Xerox Research Centre of Canada

## Construction Contract Close-Out Process

Glenn W. Ackerley  
WeirFoulds LLP

## Best Practices for Construction Contract Administration and Project Execution

Ilmar Simanovskis  
Town of Aurora

## Construction Risk Allocation in Contracts/ Risk Sharing in Infrastructure Projects.

Matthew Cook  
Cook Advisory Services

## Construction Project Risk Identification Checklist

Ed Martingano  
Oxford Properties Group

## Financing Construction & Development

Brian Moir  
ATB Corporate Financial Services

## Construction Project Risk Identification Checklist

Marina A. Pratchett, Q.C.  
Fasken Martineau DuMoulin LLP

## Managing Risk in Real Estate Development

Joseph D. Shaw  
Manulife Financial

## Life Cycle Costing of P3 Projects

Shamshad Madhok  
PricewaterhouseCoopers LLP

## Project Management Skills

Ann Gomez  
Clear Concept Inc.

## Improving the Project Budget Creation Process

Alan Kennedy  
Gibson Kennedy & Company

**Registration:** To reserve your place, call Federated Press toll-free at 1-800-363-0722. In Toronto, call (416) 665-6868 or fax to (416) 665-7733. Then mail your payment along with the registration form. Places are limited. Your reservation will be confirmed before the course.

**Location:** Four Seasons Hotel Vancouver 791 West Georgia Street, Vancouver, BC V6C 2T4

**Conditions:** Registration covers attendance for one person, the supplementary course material as described in this document, lunch on both days, morning coffee on both days and refreshments during all breaks. The proceedings of the course will be captured on audio or video. Multimedia proceedings with all slides and handouts can be purchased separately on a CD-ROM which will also include the course material.

**Time:** This course is a two-day event. Registration begins at 8:00 a.m. The morning sessions start promptly at 9:00. The second day ends at 5:00 p.m.

**Cancellation:** Please note that non-attendance at the course does not entitle the registrant to a refund. In the event that a registrant becomes unable to attend following the deadline for cancellation, a substitute attendee may be delegated. Please notify Federated Press of any changes as soon as possible. Federated Press assumes no liability for changes in program content or speakers. A full refund of the attendance fee will be provided upon cancellation in writing received prior to April 17, 2014. No refunds will be issued after this date.

**Discounts:** Federated Press has special team discounts. Groups of 3 or more from the same organization receive 15%. For larger groups please call.

Payment must be received prior to April 24, 2014

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### TO REGISTER FOR 2ND REINVENTING CONSTRUCTION PROJECT DELIVERY

Name \_\_\_\_\_  
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 Approving Manager Name \_\_\_\_\_  
 Approving Manager Title \_\_\_\_\_  
 Organization \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ Province \_\_\_\_\_ Postal Code \_\_\_\_\_  
 Telephone \_\_\_\_\_ Fax \_\_\_\_\_ e-mail \_\_\_\_\_  
 Please bill my credit card:  AMEX  VISA  Mastercard  
 # \_\_\_\_\_ Expiration date: \_\_\_\_ / \_\_\_\_  
 Signature : \_\_\_\_\_  
 Payment enclosed:  Please invoice. PO Number: \_\_\_\_\_

### REGISTRATION COSTS

NUMBER OF PARTICIPANTS:   
 COURSE: \$1975  
 COURSE + PROCEEDINGS CD-ROM:  
 \$1975 + \$175 = \$2150  
 PROCEEDINGS CD-ROM: \$599  
 PROCEEDINGS plus multimedia presentations:  
 \$799  
 NOTE: Please add 5% GST to all prices.  
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