



THURSDAY, MARCH 29TH, 2007

Crowne Plaza Toronto Don Valley
1250 Eglinton Ave East, Toronto, Ontario

A One-Day Course on Building Envelope Solutions

Faculty:

Terri Meyer Boake, Associate Professor,
School Of Architecture University of Waterloo

Ken Crofoot, Partner, Goodmans LLP

Kevin Day, Project Manager,
Halsall Associates Limited

David De Rose, Project Manager,
Halsall Associates Limited

Gerald R. Genge, Principal, Arbitech Inc.

Mario Goncalves, President,
Patenaude Trempe

Graydon Hexham, President,
Pinnacle Roofing Consultants Inc.

- Issues and Solutions for Architects, Engineers, and Others Involved in the Design Process
- Issues and Solutions for Property Management, Building Maintenance, and Operations

Design • Construction / Installation • Maintenance / Retrofit • Material & Components

Gold Sponsor:



Silver Sponsor:



Bronze Sponsor:



The Icynene Insulation System®
Healthier, Quieter, More Energy Efficient™

Key Supporting Association



Register on-line at www.buildingenvelopeforum.com

A One Day Course on Building Envelope Solutions

Building innovations have produced new building envelope issues that need to be addressed. Some of these have been great successes, some spectacular failures.

This one day conference will provide insights into the how's and why's of design problems and successes and will examine new technologies and proven strategies to help you improve the service life of a building.

Listen to leading industry experts discuss:

- ▶ Issues and Solutions for Architects, Engineers, and Others Involved in the Design Process
- ▶ Issues and Solutions Related to Building Envelope Materials, Construction, and Installation
- ▶ Issues and Solutions for Property Management, Building Maintenance, and Operations

Members of OAA can submit the Building Envelope Solutions program for acceptance of OAA-directed points according to the current cycle objectives determined by Council.

Faculty



Terri Meyer Boake. Terri Meyer Boake is an Associate Professor of Architecture at the University of Waterloo, Cambridge, Ontario, Canada. She has been teaching in the area of building construction since the early 1980s, and launched an effort to expand the environmental core curriculum at the School of Architecture in Waterloo during the mid 1990s. Through this program all students must become familiar with and be able to design to LEED™ Criteria. Professor Boake became LEED Accredited in 2004.



Kenneth Crofoot. Ken is a litigation partner with expertise in commercial, construction, banking and insolvency litigation. His practice has involved handling large construction claims on behalf of both owners and contractors. The range of construction matters handled has been extensive, including delay claims, tender disputes, construction lien claims, and claims arising from failed building systems.



Kevin Day. Kevin has a degree in architectural science, graduating from Ryerson Polytechnical Institute. He specializes in building envelope systems, with particular expertise in cladding, sealants and fenestration. Kevin is past president of both OBEC and the EIFS Council of Canada, and his passion is to communicate best practices in building construction and management.



David De Rose. David has a Master's Degree in Engineering from the University of Toronto. He has specialist skills in computer modelling for thermal and moisture performance in cladding systems. David is a member of the Professional Engineers Ontario. He is a director of the Ontario Building Envelope Council (OBEC) and a certified Building Science Specialist of Ontario.



Gerald R. Genge. Gerald Gerald R. Genge, P.Eng. C. Arb. (Jerry) is the Principal of Arbitech Inc. He currently maintains a consulting engineering practice in Newmarket Ontario that serves the building industry throughout Canada. Jerry has provided expert testimony in a variety of venues ranging from the Supreme Court of Ontario to the License Appeal Tribunal and he has prepared critiques of claims for damages ranging from under \$10,000 to over \$2.5 million. For the past 10 years, Jerry has chaired a Property Standards Appeal Tribunal and he is currently the vice-chair of the Building Materials Evaluation Committee.



Mario Goncalves. Mario is a professional engineer and senior building envelope consultant with over fifteen years of field experience. He is President of Patenaude-Trempe – a Montreal and Quebec City based building envelope consulting firm with projects across eastern Canada and the north-eastern United States. Mario manages the Quebec Building Envelope Council (QBEC) in Montreal.



Graydon Hexham. Graydon is the President of Pinnacle Roofing Consultants Inc., and has over 35 years experience in the roofing industry. He currently sits on the board for OIRCA (Ontario Industrial Roofing Contractors Association) and is a past President and Regional Director of RCI (Roofing Consultants Institute).

Special Thanks to our Sponsors:

Gold Sponsor:

BAKOR

Silver Sponsor:

 **Hanson**
The face of brick™

Bronze Sponsor:

 The Icynene Insulation System™
Healthier, Quieter, More Energy Efficient™

Key Supporting Association



Media Sponsor:



Lanyard Sponsor:



Breakfast Sponsor:



Luncheon Sponsor:

CRS
COX ROOFING SYSTEMS

Morning Refreshment Sponsor:

 Changing the color of masonry

Afternoon Refreshment Sponsor:

 Setting the Standard

• Agenda •

▷ **8:00 a.m.**

Registration and Continental Breakfast

Sponsored By:



▷ **8:45 a.m.**

Introduction and Opening Remarks

Representative from
The Ontario Building Envelope Council (OBEC)

▷ **9:00 a.m. – 10:30 a.m.**

Building Science Primer: The Building as a System

This presentation will focus on the building envelope as a system and provide an overview of the most important challenge – how to keep water out and heat in. The mechanisms that allow water to infiltrate and heat to exfiltrate the building envelope will be examined in simple and practical terms. Common building envelope pitfalls and failures, and how to avoid them, will be presented via practical case study examples.

Mario Goncalves, *President, Patenaude Trempe*

▷ **10:30 a.m. – 10:45 a.m.**

Refreshment Break

Sponsored By:



▷ **10:45 a.m. – 12 noon**

Building Envelope Checklist for Designers: Key Considerations in the Selection of Building Envelope Systems

Learn about the critical areas designers should consider when selecting building envelope systems and how it will affect the outcome of the building design.

- Design options for walls & roofs – contrasting costs vs. life cycle (LEED)
- Water management requirements for EIFS and stucco – OAA's requirements
- Pitfalls of masonry, curtain wall and precast concrete
- Balconies of a new age, short and sweet

- Slab-on-grade moisture management – how to avoid flooring failures
- Roofing options in a green age...

Kevin Day, *Project Manager,
Halsall Associates Limited*

David De Rose, *Project Manager,
Halsall Associates Limited*

▷ **12 noon – 1:00 p.m.**

Networking Luncheon

Sponsored By:

CRS
COX ROOFING SYSTEMS

▷ **1:00 p.m. – 2:00 p.m.**

Myths & Realities about Roof Design & System Performance

The presentation will provide architects, building owners, engineers and property managers with some practical and proven guidelines for making those important roofing decisions to avoid costly mistakes. Comparisons to the durability and life expectancy of various membrane systems including – built-up, EPDM, modified bitumen and thermo-plastic will be discussed. Learn about strategies to prolong the service life of your roof, how to reduce costs with repairs and maintenance on existing and new construction projects. A reference will also be made to the pros and cons of white roofs as an alternative to green roofs.

Graydon Hexham, *President,
Pinnacle Roofing Consultants Inc.*

▷ **2:00 p.m. – 3:00 p.m.**

Designing the Exterior Wall: Pros and Cons of the Double Skin Wall

Gain insight into the basic principles, types and construction methodology of double skin envelope systems. What are the benefits of these systems that warrant the extra expense in terms of money, time and engineering? Which climates seem to work best for these systems? What might be the environmental or political factors that encourage the construction of these premier skin systems?

Several cold climate case studies will be examined in greater detail: Occidental Chemical (the first double skin building in North America), Telus/William Farrell in Vancouver, Centre for Cellular and Biomolecular Research

in Toronto, and the Caisse de dépôt et placement du Québec in Montreal.

Terri Meyer Boake, *BES B.Arch M.Arch LEED AP,
Associate Professor, Associate Director, School of
Architecture University of Waterloo (Cambridge)*

▷ **3:00 p.m. – 3:15 p.m.**

Refreshment Break

Sponsored By:



▷ **3:15 p.m. – 4:15 p.m.**

Legal Issues in Building Envelope Claims: Assessment of the Critical Issues

This presentation will review some of the legal issues that arise when a building envelope is found to be defective and requires remediation.

- Applicable limitation periods and issues that arise in their application.
- Searching for Defendants – Who is responsible? Issues that arise in contract and tort law.
- Should potential Defendants be involved in investigation and remediation and if so, how?
- Insurance Coverage issues that arise regarding latent damage claims.

Ken Crofoot, *Partner, Goodmans LLP*
Gerald R. Genge, *Principal, Arbitech Inc.*

▷ **4:15 p.m.**

Conference Adjourns

Must attend event for:

- Architects
- Specifiers
- Designers
- Engineers
- Contractors
- Building Owners
- Developers
- Property Managers

Registration Form



Please type or print legibly.

For additional registrations from the same organization, please photocopy this form. To receive written confirmation, you must register by March 23rd, 2007.

Given name _____

Surname _____

Title _____

Email _____

Company name _____

Full mailing address _____

City/Town _____ Province _____ Postal Code _____

Business Telephone _____ Facsimile _____

PASS IT ON!

If this brochure has been inadvertently sent to the wrong person, please pass it along to an interested associate.

Please check the most appropriate description of your responsibilities or organization:

- 01 Property Management
- 02 Developer/Owner
- 15 Architect
- 16 Engineer
- 17 Contractor/Subcontractor
- 17 Construction Management
- 18 Homebuilder
- 20 Government Official
- 27 Consultant
- SU Supplier
- 21 Other (please specify) _____

Register on-line: www.buildingenvelopeforum.com

Building Envelope Forum - Toronto

Wednesday March 29th, 2007

Payment Information:

	Up to February 27	After February 27
Full Day:	\$325.00	\$375.00
plus G.S.T. (#125925289RT0001)	19.50	22.50
Total	\$344.50	\$397.50

PLEASE CIRCLE THE APPROPRIATE PAYMENT AMOUNT

VISA Mastercard AMEX Cheque enclosed
(made payable to "MMPC Expositions ULC")

Card number _____

Expiry date _____ Signature _____

Name on Card _____

Note: York Communications will appear on your credit card statement

Register on-line: www.buildingenvelopeforum.com

Mail: Building Envelope Forum – Toronto
c/o York Communications
3080 Yonge St. Suite 3020 P.O. Box 75
Toronto, ON M4N 3N1

Fax: 416-512-1077 or 416-512-1993

REGISTRATION INFORMATION

Advanced Registration Only.

There will be no registration at the door.

Deadline to Register:

March 23rd, 2007

How to Register:

1) Register On-Line:

www.buildingenvelopeforum.com

Send the completed registration form with payment by:

2) Fax:

416-512-1077 or 416-512-1993

or

3) Mail:

Building Envelope Forum – Toronto
c/o York Communications
3080 Yonge St. Suite 3020 P.O. Box 75
Toronto, ON M4N 3N1

Registration Fee:

Up to February 27, 2007:

▶ \$325.00 + \$19.50 GST = \$344.50

After February 27, 2007:

▶ \$375.00 + \$22.50 GST = \$397.50

Registration Includes:

Includes continental breakfast, morning refreshments, lunch and afternoon refreshment and handouts.

Refunds & Substitutions:

Refunds will be provided for cancellations received in writing prior to March 16th. A fee of \$75.00 will be applied for the processing fee of each refund. We regret that refunds cannot be offered after that date. However, delegate substitutions are permitted up to and including the day of the event.

Any Questions?



Call 416-512-1215 or

800-660-7083, ext. 233

E-mail: info@yorkcom.to

For more information on our Building Envelope conferences, or to subscribe to the *Building Envelope Forum on-line publication*, visit our website at www.buildingenvelopeforum.com or call (416) 512-1215 ext. 231.



Building Envelope Solutions conferences are developed by York Communications, MMPC Expositions ULC , publisher of *Construction Law Update News Bulletin*, and *Building Envelope Forum*. York Communications, MMPC Expositions ULC , is also the producer of *Construct Canada*, *HomeBuilder & Renovator Expo*, *PM Expo*, *The Real Estate Forum*, and *National GreenBuilding Conference*. For further information visit our website at www.yorkcommunications.ca