



Glass Connections – Toronto 2011  
May 3, 2011

DELEGATE REGISTRATION FORM (Please print or type)  
Please complete one form per person

Full Day Session  
Tuesday, May 3, 2011  
6:30 am to 4:00 pm  
Delta Chelsea Hotel  
33 Gerrard Street, Toronto Ontario

Advanced Registration is Required

Glass Connections Toronto 2011 is a highly focused educational and networking event for glaziers, architects, engineers, designers, spec writers, commercial construction contractors and building owners. Seminars will cover a wide range of industry specific topics including photovoltaic technology for the glass industry, heat treatment of glass, insulating glass and manufacturing, training and retaining young glazing apprentices and Building Code Energy Efficiencies.

In addition, the conference will host a Table Top Trade Show to give manufacturers and suppliers the opportunity to showcase their products, services and upcoming technologies.

**CONTINUING EDUCATION CREDITS AVAILABLE**

The presentation by John Carpenter of Schott Okalux Architectural Glass qualifies for 1 hour AIBC Core continuing education credits.

**Full Day Agenda – May 3, 2011**

630 – 800	Registration - Buffet Breakfast -Networking – trade booths	
800 – 815	Welcome & Opening Remarks	Richard Verdon - President, CGA
815 – 845	Introductions & Agenda	Leonard Pianalto - Technical Committee Chair, CGA
845 – 945	Raise your Window Performance to Meet Tomorrow's New Levels	Chris Barry, Pilkington
945 – 1045	Harvesting Sunlight	John Carpenter, Schott Okalux Architectural Glass
1045 – 1100	Health & Refreshment Break	
1100 – 1200	TBD	TBD
1200 – 130	Buffet lunch and trade show networking	
130 – 230	Durability of Insulated Glass Units	Margaret Webb, Insulating Glass Manufacturers Alliance
230 – 330	TBD	TBD
330 – 400	Trade show and networking	
400 – 430	Wrap up – What have we learned – and large door prize	Leonard Pianalto

**Sponsorship Opportunities Available**

Contact Zana Gordon: [zgordon@canadianglassassociation.com](mailto:zgordon@canadianglassassociation.com)



## Presenters & Topics:

### **Raise Your Window Performance to Meet Tomorrow's New Levels**

*Christopher Barry - Director Technical Services, Pilkington NA Inc.*

Minimum performance levels in Building Codes; ER, NFRC, ASHRAE and LEED rating levels; and consumer performance preferences are all being raised to new levels.

We will show how adding a low emissivity coat, or coatings, always helps window thermal performance making it always more energy efficient. How centre of glass thermal performance can now be so much better than the edge that attention must be paid to edge-of-glass spacers and window frame thermal properties to achieve desired improvements to the complete window.

Solar control requires evaluation to see if free, passive solar heat gain should be admitted or rejected. As the thermal and solar control properties of a window are improved it becomes more important to check that the resulting thermal stresses are properly evaluated, using currently available tools, and that appropriate measures are taken to prevent glass breakage.

### **Harvesting Sunlight - Using Photovoltaics and Advanced Thermal Glazing Units to meet new Federal, Provincial and Municipal GREEN sustainable design initiatives**

*John Carpenter - President, Clearstream International Products / Schott Okalux Architectural Glass*

The Canadian Glass Association member specialists will receive up to date glazing techniques that capture and manage solar energy:

- BIPV Glass Units - Building Integrated Photovoltaics, taking advantage of provincial net metering opportunities;
- Advanced Thermal Glazing Units - Cooling, Heating and Illumination controls for occupant comfort and reduced energy loads;
- Sophisticated Light Directed Glazing Units – Glass units built according to the building's latitude and longitude coordinates;
- Forward-Thinking Digitized Glazing – Precise image transfer over large glass surfaces, without silk screening.
- New Developments – Switchable Glass: Opaque to Clear/ clear to Opaque for privacy controls; Invisible Ultra Violet Pattern Glass: reduce/eliminate bird collisions.

**TBD**

TBD

### **Durability of Insulating Glass Units**

*Margaret Webb - Executive Director, Insulating Glass Manufacturers Alliance*

The first energy saving glass technology was the double-pane insulating glass unit. Patented by Thomas Stetson in 1865 in the USA, it wasn't until the 1930s that it became commercially available in Europe and North America. Problems with durability of the perimeter hermetic seal arose, leading to considerable international effort beginning in the 1950s to develop test methods and improve seal technology. The introduction of argon gas fill in the 1980s added another level of complexity. Margaret Webb will discuss current state-of-the art of the IGMA seal durability programs.

**TBD**

TBD



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## Glass Connections Toronto 2011

First Name \_\_\_\_\_ Last Name \_\_\_\_\_  
 Title \_\_\_\_\_ Company \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ Prov/State \_\_\_\_\_ P/Code/Zip \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Name on Badge (please print) \_\_\_\_\_ Email: \_\_\_\_\_

Additional persons attending from same company – if you have more persons please send a list

First Name \_\_\_\_\_ Last Name \_\_\_\_\_  
 Title \_\_\_\_\_ Name on Badge (please print) \_\_\_\_\_

First Name \_\_\_\_\_ Last Name \_\_\_\_\_  
 Title \_\_\_\_\_ Name on Badge (please print) \_\_\_\_\_

	Early Bird Rate (March 31/11)	Regular Rate (April 15/11)	Last Minute Rate (April 16 – May 2/11)
Rate	\$175	\$200	\$250
HST	21	24	30
Total	\$196	\$224	\$280

All cancellations must be in writing. A \$75 cancellation fee will be charged.

Payment  
All fees are in CDN dollars

	# of attendees	Rate	
Delegate	_____	x _____	= _____
		Subtotal	= _____
HST	_____	x _____	= _____
		Total	= _____

### IMPORTANT:

Please ensure payment is included with the registration form. All registered delegates will receive confirmation of their registrations via fax/email or post. All registrations are refundable before April 29, 2011. All registrations are transferable as long as they are received by April 15, 2011.

### Payment Method

Cheque (enclosed)       Visa       MasterCard

Credit card # \_\_\_\_\_ Expiry Date \_\_\_\_\_ / \_\_\_\_\_

Name on Card \_\_\_\_\_ Date \_\_\_\_\_

Signature \_\_\_\_\_