

# **GLASS & GLAZING IN THE 21st CENTURY:**

## **Design and Preservation of Contemporary & Historic Architecture**

*An intensive 2-day conference/training program  
exploring the use, performance, maintenance, and  
preservation/restoration of glass in  
new and existing buildings and monuments*

**March 20-21, 2010**

Cambridge, Massachusetts

*Sponsored by:*

- *Technology & Conservation*
- *MIT Department of Architecture–Building Technology Program*
- *Historic Resources Committee, Boston Society of Architects/AIA*

for

- architects • engineers • architectural conservators • building restoration specialists
- construction specifiers • building maintenance supervisors • campus planners
- landscape architects • objects/sculpture conservators • construction managers/supervisors
- contractors • masons • real estate developers • operations/facilities managers and administrators  
of libraries, museums, & other cultural institutions; educational & commercial complexes;  
religious properties; cemeteries • federal, state, and local government officials responsible for  
the care, rehab, and/or continued viability of buildings & public art
- manufacturers, fabricators, and suppliers of relevant components and systems

# GLASS & GLAZING IN THE 21st CENTURY:

## Design and Preservation of Contemporary & Historic Architecture

### SCHEDULE

#### SATURDAY, MARCH 20, 2010

- 7:30-8:15 am Check-in
- 8:15-8:25 Welcome - *Susan E. Schur* and *John Ochsendorf*
- 8:25-9:25 Perspectives – An Aesthetic View - *James Carpenter*
- 9:25-10:15 Perspectives – The Conservation of Glass and Glazing Over the Past Decades - *Jill Channer*
- 10:15-10:20 Q&A
- 10:20-10:40 Coffee Break + Posters
- Developments in Technology & Materials – Properties, Structure, & Attachment**
- 10:40-11:15 Mechanical & Structural Properties - *Tim Macfarlane*
- 11:15-11:30 Insulating Glass (IG) Unit Performance - *Thomas Schwartz*
- 11:30-11:45 The Truth about the John Hancock Glass Failure and Lessons Learned - *Thomas Schwartz*
- 11:45-12:15 Testing & Evaluation of Glass including thermal performance of glazing systems - *Colman Billings*
- 12:15-12:25 Q&A
- 12:25-2:00 Luncheon - MIT Faculty Club
- 2:00-2:30 Glass & the Architectural Imagination - *Rosemarie H. Bletter*
- 2:30-3:00 Structural Glazing Systems - *Brett Schneider*
- 3:00-3:20 Coffee Break + Posters
- Conservation/Preservation of Buildings/Building Types of the 19th & 20th Centuries**
- 3:20-3:50 Glass Conservatories, including the Enid Haupt Greenhouse, Bronx Botanical Gardens - *Liam O’Hanlon* and *James Smith*
- 3:50-4:05 Museum Buildings I - *Brett Schneider*
- 4:05-4:20 Museum Buildings II - including British Museum and the Smithsonian - *Craig Schwitter*
- 4:20-4:45 Sert’s Harvard and Boston University Buildings - *Henry Moss*
- 4:45-5:00 Updating 20th Century Office Buildings - *Robert Brown*
- 5:00-5:15 Designing Structural Glass for Renovations - *Eric Hines*
- 5:15-5:30 Installer’s Viewpoint - *David Wennekamp*
- 5:30-6:05 Color/Artistic Use - *Andrew Moor*
- 6:05-6:20 Q&A

- 6:20-8:00 pm Reception - The Cambridge Marriott Hotel

#### SUNDAY, MARCH 21, 2010

- 7:30-8:00 am Film
- New Technologies, New Methods of Retaining/Achieving Architectural Concepts**
- 8:00-8:30AM Contemporary Buildings including the United Nations - *David Fixler*
- 8:30-9:15 Manufacturing Developments & Fabrication Techniques/Limitations - *Christopher Barry*
- 9:15-10:00 Energy and Sustainability Aspects of Glass/Glazing – Realistic Expectations - *Steve Selkowitz*
- 10:00-10:15 Q&A
- 10:15-10:30 Coffee Break + Posters
- 10:30-10:50 Coatings on Glass & Fritting - *Don McCann*
- Bringing Glass into 21st Century Architectural Design & Ornamentation**
- 10:50-11:20 Innovative Projects - I - *Tim Macfarlane*
- 11:20-11:50 Glazing Interlayers - *Donald Press*
- 11:50-12:10 Q&A
- 12:10-2:00 Luncheon - MIT Faculty Club
- 2:00-2:25 Smart Glass - *Jeff Besse*
- 2:25-3:00 Mies’ IIT Building + Spertus Institute - *Mark Sexton*
- 3:00-3:30 New Construction Techniques, including the Louvre, Abu Dhabi - *Craig Schwitter*
- 3:30-3:50 Coffee Break + Posters
- 3:50-4:10 Innovative Projects - II - Baha’i House of Worship for South America & other case histories - *Russell Davies*
- 4:10-4:30 Implications of Recent Research: The Constglass Project - *Stefan Trümpler*
- 4:30-4:55 How will New Materials and New Manufacturing Techniques Affect/ Impact Design and Conservation Work - *John Fidler*
- 4:55-5:30 Q&A

#### MONDAY, March 22, 2010

##### **Optional Program will focus on Stained Glass.**

Program will start at St. Mary’s Church, Cambridge, which has unusual stained glass windows (Belcher glass) - with a talk by Dan Maher on their restoration, and then will proceed to Bigelow Chapel at Mount Auburn Cemetery for: tour, demonstration by Roberto Rosa, Serpentino Stained Glass; talks by Julie L. Sloan and Stefan Trümpler.

NOTE: A listing of the speakers and their company/organization affiliation is given on the next page.

# CONFERENCE LECTURERS

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

**Jeff Besse**, Co-Owner, LTI Smart Glass Inc.

**Colman Billings**, Industrial Designer, Billings Design Associates Ltd.

**Rosemarie H. Bletter**, Professor of 19th & 20th C. European & American Architecture & Theory, CUNY

**Robert A. Brown, AIA, IIDA, LEED AP**, Principal, CBT Architects

**James F. Carpenter**, James Carpenter Design Associates Inc.

**Jill Channer, FSA, FRSA, IHBC**, Heritage Policy Advisor, Homes & Communities Agency

**Russell H. Davies, PE**, Simpson Gumpertz & Heger

**John A. Fidler, RIBA, Int.Assoc. AIA**, Staff Consultant - Preservation Technology, Simpson Gumpertz & Heger

**David N. Fixler, FAIA, LEED AP**, Principal - Design & Preservation, Einhorn Yaffee Prescott A&E, PC

**Eric M. Hines**, Associate, LeMessurier Consultants, Inc., and Professor of Practice, Tufts University

**Tim Macfarlane**, Design Partner, Dewhurst Macfarlane & Partners

**Don McCann**, Manager - Architectural Design, Viracon, Inc.

**Andrew Moor**, Principal, Andrew Moor Associates

**Henry Moss, AIA, LEED AP**, Principal, Bruner/Cott & Associates

**Liam O'Hanlon, PE**, Principal and Structural Engineer, Liam O'Hanlon Engineering, PC

**Donald Press**, General Manager, Architectural Glass, Schott North America

**Brett H. Schneider**, Associate, Guy Nordenson and Associates

**Thomas A. Schwartz, PE**, President, Building Technology Group Head, Sr. Principal, Simpson Gumpertz & Heger

**Craig Schwitter, PE**, Regional Director-North America/Principal, Buro Happold Consulting Engineers

**Stephen Selkowitz**, Head, Building Technologies Department, Lawrence Berkeley National Laboratory

**Mark P. Sexton, FAIA, LEED AP**, Principal, Krueck-Sexton

**James M. Smith**, Principal, Montgomery Smith Inc.

**Stefan Trümpler**, Director, Vitrocentre Romont (Swiss Research Centre for Stained Glass and Glass Art)

**David A. Wennekamp**, Project Executive, Ipswich Bay Glass Co.

## STAINED GLASS PROGRAM SPEAKERS

**Daniel Maher**, Principal, Daniel Maher Stained Glass

**Roberto Rosa**, Principal, Serpentino Stained & Leaded Glass, Inc.

**Julie L. Sloan**, Stained Glass Consultant, Julie L. Sloan, LLC

**Stefan Trümpler**, Director, Vitrocentre Romont (Swiss Research Centre for Stained Glass and Glass Art)

## CONFERENCE OPENING – WELCOMING REMARKS

**John Ochsendorf**, Assoc.Professor, Massachusetts Institute of Technology, Architecture Dept., Building Technology Program

**Susan E. Schur, Hon. AIA, FAPT**, Publisher-Editor, Technology & Conservation

**CONTINUING EDUCATION CREDITS** will be available – 16 units for the March 20-21, 2010 conference; 5 additional units for those attending the Monday, March 22 optional stained glass program.

**HOTEL ACCOMMODATIONS** For those who require a hotel room, a limited number of rooms are available at the Cambridge Marriott Hotel at the special rate of \$139+tax/night for a single or double room. Booking code is: tntcnca.

*If you have any questions on the conference, please contact Susan E. Schur, Tel: 617-623-4488; e-mail: ses\_tec\_con@msn.com*

# REGISTRATION FORM

## GLASS & GLAZING IN THE 21st CENTURY: Design and Preservation of Contemporary & Historic Architecture Saturday, March 20–Sunday, March 21, 2010

<u>Prior to Jan. 30, 2010</u>	<u>After Jan. 30, 2010</u>	<u>Amount</u>
\$435/person	\$510/person . . . . .	\$ _____

Basic fee covers:

- the 8:00am–6:00pm conference program – Sat., March 20 & Sun., March 21, 2010
- the March 20 and March 21 luncheons, and
- the Saturday evening, March 20, reception

Please indicate any special accessibility or dietary needs:

\_\_\_\_\_ vegetarian meals \_\_\_\_\_ other needs

Guest tickets for the March 20 reception can be purchased @ \$50/ticket . . . . . \$ \_\_\_\_\_

**Optional Stained Glass Program Mon., March 22** – no charge for persons registered for the conference

\_\_ I would like to attend the stained glass program \_\_\_\_\_

**TOTAL . . . . . \$ \_\_\_\_\_**

Check for \$ \_\_\_\_\_ U. S. funds (drawn on a U. S. A. bank) for registration fee (and for any guest tickets for the Sat., March 20, reception) is enclosed. Check should be made payable to: The Technology Organization, Inc.

**Please register me (us) for the conference:**

Name(s) \_\_\_\_\_

Title \_\_\_\_\_

Organization \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip (Postal Code) \_\_\_\_\_

Tel: \_\_\_\_\_ Fax: \_\_\_\_\_ e-mail: \_\_\_\_\_

**Each person listed on the registration must sign the following statement:**

I(we) understand and agree that the participation of Technology & Conservation, The Technology Organization, Inc., conference organizers, and cooperating organizations and individuals in the 2010 “Glass and Glazing in the 21st Century” conference is limited to providing educational background and guidance; that all transportation, accommodations, tour, and other arrangements in connection with this Conference are under the exclusive control of others and that Technology & Conservation, The Technology Organization, Inc., conference organizers, and cooperating organizations and individuals have no liability or responsibility whatsoever for the death of any person or for any loss, expense, delay, injury, or other damage to any person or property (however occurring) on, during, and/or in relation to this “Glass and Glazing in the 21st Century” conference and the information furnished.

Signature(s) \_\_\_\_\_ Date \_\_\_\_\_

**Return this form, with check (made payable to The Technology Organization, Inc.), to:  
Technology & Conservation, 76 Highland Avenue, Somerville, MA 02143**