

# Facades

## DESIGN AND DELIVERY 2012™

**An Examination of Global Currents in Design,  
Planning, and Sustainability for Modern Facades**

January 23-25, 2012 • Sentry Center - 810 Seventh Avenue, NY

The only summit of its kind in the United States that brings together the nation's most innovative and prestigious firms to share insights on facades engineering as well as case studies that demonstrate how to overcome challenges in design and delivery. You will gain expert knowledge on innovative materials that top firms are using, hear from cutting edge architects and find out about new developments in energy efficiency technology.

### Key Takeaways:

- Innovative façade design presentations
- How to increase your ROI on high performance facades
- Find out the latest developments in energy efficiency technology
- Enhance your BIM skills
- How to upgrade current facades with retrofitting techniques

### Build your Knowledge with 3 interactive workshops:

- A** Innovative Glass Designs
- B** Mastering BIM Utilization to Improve Design and Delivery
- C** Effective Team Structures for Design Assist Processes

Connect with us on

**twitter** @facadessummit

**Linked in** Facades Design and Delivery Networking Group

### Featuring a Distinguished Speaker Faculty from:

**Paul Stoller**

LEED AP BD+C, Director, **Atelier Ten**

**Marcus W. Acheson V**

RA, LEED AP, Associate Project Designer  
**Ballinger**

**Will Laufs**

PHD, PE, LEED AP, IWE, Principal,  
**Buro Happold**

**Craig McIlhenny**

AIA, Associate Partner, **Ennead Architects**

**Marc Simmons**

Partner, **Front, Inc**

**Guy Geier**

FAIA, FIIDA, LEED AP, Managing Partner,  
**FXFOWLE**

**Darko Hreljanovic**

AIA, Partner, **GRUZEN SAMTON Architects LLP**

**Vladimir Maleev**

M.Eng., P.Eng., **Halsall Associates Limited**

**Chuck Hoberman**

Founder, **Hoberman Associates**

**John Kooymans**

P. Eng., Principal, **Read Jones Christoffersen Ltd.**

**John Pachuta**

Partner, **R.A. HEINTGES & ASSOCIATES**

**Neville Kermani**

Associate, **SUPERSTRUCTURES**

Sponsors: **enclos**



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DESIGN FACILITY TO THE ARCHITECTURAL GLASS INDUSTRY

Produced by:

**IQPC**  
International Quality & Productivity Center

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This summit will deliver US and international case studies as well as in-depth technical workshops led by industry experts. Hear from leading architects and façade engineers from **Gruzen Samton Architects LLP, Buro Happold, FXFOWLE, Front, Inc, and other industry experts** on topics such as material selection, increasing ROIs of high performance building, international commissioning, and building for the public.

**Chuck Hoberman, renowned architect, product designer and inventor,** will present the key note address on the innovations of kinetic facades and optimizing its performance.

Don't miss this opportunity to learn, brainstorm, and network with our distinguished speaking faculty and delegates at this peer-led summit.

“*Good info-basis for making us think outside the box*”  
– **Curtain Wall Manager, TGP America**

“*...rich in dialogue, and are very valid forums for exploring trends.*”  
– **Mic Patterson, Director of Strategic Development, Enclos**

“*The conference had a nice balance of architects, installers, and owners as speakers. The conference is run very well with a schedule that is fitting to the content. ...*” – **John Rovi, Curtain Wall Design & Consulting Inc.**

“*Presentations were in-depth, on topic and by noteworthy practitioners.*”  
– **Director of Industry Development, Ornamental Metal Institute of New York City**

### WHO WILL ATTEND?

#### ARCHITECTS

- Principals
- Directors
- Associates

#### ENGINEERS

- Principals
- Directors
- Associates
- Façade Engineers
- Structural Engineers

#### BUILDING OWNERS/ PROPERTY DEVELOPERS

- Project Directors
- Façade Managers/Directors
- Senior Design Managers

#### GENERAL CONTRACTORS

- Vice Presidents
- Project Directors

#### CONSTRUCTION MANAGERS

### Sponsorship and Exhibition Opportunities

Sponsorship of IQPC's Façade Design & Delivery Summit, is the best value for your marketing spend. Showcase your products and services to targeted decision makers attending the conference.

The summit offers extensive networking opportunities, allowing face to face interaction with the heads of your target market therefore setting the perfect environment for high quality lead generation. Don't let your competition get ahead you – secure your sponsorship opportunity by calling Georgia Foster at 212-885-2799 or email [sponsorship@iqpc.com](mailto:sponsorship@iqpc.com)

# ABOUT OUR SPONSORS



**Enclos** is a leading facade technology firm that provides comprehensive design, engineering and strategic implementation services for custom building skins and curtainwall cladding systems.

With over 350 people and 16 office locations, the firm self performs a spectrum of services while managing a sophisticated global supply chain. Enclos has been a leader in facade system development since the advent of contemporary curtainwall systems in the mid twentieth century, and is consistently ranked as a leading facade contractor in national industry surveys today. Many of the most prominent buildings in the world showcase Enclos' innovative approach to engineering and construction. See The Visible Difference at [www.enclos.com](http://www.enclos.com).



**Konarka** reinvents solar with Power Plastic®, organic solar film that converts light to electricity-anywhere.

Konarka is the leading manufacturer of polymer-based, printed, organic photovoltaic (OPV) technology. Power Plastic is semi-transparent and available in multiple colors as well as a wide range of sizes giving design freedom to architects and builders for building integrated (BIPV) and other glass applications. Power Plastic's flexibility enables it to conform to curves and contours. These lightweight panels are bonded or laminated to a variety of materials, and create independent power sources out of tension membrane structures, café umbrellas, awnings and tents. It is manufactured in a roll-to-roll process at low cost and low energy consumption making it good for the environment. Konarka has a broad portfolio of patents, technology licenses and an accomplished technical, scientific and manufacturing team. The company is headquartered in Lowell, MA, USA with European operations based in Nürnberg, Germany. Our full scale manufacturing facility is based in New Bedford, MA, USA with R&D facilities in Lowell and Nürnberg. Konarka maintains sales offices Japan, Germany, and the USA. Website: [www.konarka.com](http://www.konarka.com)



**LINEL** designs, engineers and manufactures monumental skylight, panel systems, and ornamental metal products in a modern production facility ten miles south of the Indianapolis International Airport. Our architectural products, which are featured nationally, are typically aluminum frame, panel, and glass assemblies that rely heavily on our proven engineering and manufacturing expertise.

Our largest product segment is skylights, followed by architectural products and electrostatic paint processes. We manufacture a variety of custom-designed architectural products for commercial and residential applications. Virtually every component is constructed to unique designs submitted by the architect and fabricated to rigid specifications in our plant. Website: [www.linelsignature.com](http://www.linelsignature.com)



**Soladigm** is a developer of next-generation green building solutions designed to improve energy efficiency. Soladigm's Dynamic Glass can change its tint from clear to dark on demand

and provide unprecedented control over the amount of light and heat that enters a building. This dynamic control results in 25 percent reduction in HVAC energy consumption and 30 percent reduction in peak load. Additionally, because they also control glare, windows that use Soladigm Dynamic Glass do not need blinds, shades or other window treatments, thus providing unobstructed views to the occupants.

While several technologies have been developed to dynamically control the heat and light across window glass, Soladigm's Dynamic Glass is the first technology to deliver on the key requirements of performance, scalability, and durability with the cost effectiveness needed for broad adoption.

Soladigm is headquartered in Milpitas, California.

Website: <http://soladigm.com/>



**W&W GLASS, LLC**

**W&W** is one of the nation's largest glass and glazing specialty contractors in the

United States. They are also the sole North American distributor for the Pilkington Planar System, the world's leading structural glass system. Based in New York the company has been owned and operated by the Haber family for over 30 years.

The Pilkington Planar point-supported bolted glass system has been in use since the 1960's and has evolved from patch plates with single tempered glass to high performance insulated glass with all kinds of exotic back-up structures.

W&W has in-house engineers and designers accredited by Pilkington who work with architects all over the U.S. to create the most innovative glass systems today.

Based in the U.K., Pilkington is a member of the NSG group of companies; is one of the largest glass manufacturers in the world, and created the float glass process.

Website: [www.wvwglass.com](http://www.wvwglass.com)



**NBK**, a Hunter Douglas company, is a worldwide leader in the manufacturing of Architectural

Terracotta Rainscreen Façade Systems. Terracotta tiles and baguettes bring signature style to a building's exterior with nearly unlimited shapes, textures, colors, and glazes, in both horizontal and vertical applications. In addition to new construction, the versatility of ventilated rainscreen facades makes terracotta ideal for recladding and retrofitting opportunities, upgrading the look and performance of virtually any type of existing structure. NBK is based in Germany and is marketed in the United States and Canada through its USA division, NBK North America. For more information and to view examples of buildings clad in our product, visit [www.nbkusa.com](http://www.nbkusa.com) and [www.hdfacades.com](http://www.hdfacades.com)



At **Western**, craftsmanship means quality work ... and a whole lot more. It means taking the time and care to do the job right, whether we're

working on a masonry structure or working with a colleague or client. The construction industry has certainly changed in the 90+ years since Western's founding. Innovative techniques and materials are taking their places alongside — and sometimes replacing — traditional construction methods. But one thing remains constant: people are still the key to our success. The people who do the work — our employees — and the people we work for — our customers.

Over the years, we've focused as much time and energy on crafting solid relationships as we have on our expertise in masonry and concrete restoration and waterproofing. The result is a company that isn't just family-owned and operated. It also embodies the spirit of family ... of people who understand that mutual trust and respect is every bit as important as equipment and materials if you want to build something that lasts. <http://NY.BriskWaterproofing.com>

# PRE-SUMMIT WORKSHOP DAY

Monday, January 23, 2012

Separately  
Bookable

A

9:00am – 11:00am 8:45 am Workshop A Registration (Coffee and Continental Breakfast)

## Transparent Elements – Glass Engineering Explained in Detail

Glass has proven to be the preferred material for architects and property developers, as it allows for realization of great artistic visions and its compatibility with energy efficiency systems. Join this workshop to learn more about the technical application of glass as a structural element and the various structural support systems that must interact with the glass façade.

### What you will learn:

- In-depth explanation of thermal pre-stress (including boreholes and local edge clamps)

- Post- failure security strategies using laminated products
- Details for load- carrying glass-cable structures
- Recent project examples in the US
- The future - new innovative glazing products entering the market

### Will Lauf

PHD, PE, LEED AP, IWE, Principal

**Buro Happold**

B

11:30am - 1:30pm 11:15am Workshop B Registration (Box Lunch will be Served)

## Mastering BIM Utilization to Improve Design and Delivery

BIM offers great benefits to anyone who is involved in the building lifecycle due to its interoperability. But it is only beneficial if your teams have mastered how to navigate and leverage the rich world of BIM. Our workshop leaders will provide various workflow methodologies for commercial buildings in this hands-on workshop. This is a must-attend workshop for practicing architects, engineers, and contractors who are interested in expanding on existing BIM skills to bring efficiency to their practice.

### What you will learn:

- How to capitalize on the critical information stored and gathered in BIM relating to façade design and delivery

- Leveraging technology to improve efficiency and accuracy
- How to facilitate your collaboration with other disciplines involved in the building lifecycle
- How to overcome the complexities in the BIM system.

### Marc Simmons

Partner

**Front Inc**

### Neil Thelen

Façade Consultant

**Front Inc**

C

2:00pm – 4:00pm 1:45pm Workshop C Registration

## Effective Team Structures for Design Assist Processes

Organizing the design assist team is critical for exercising the best collaborative effort required to make envelopes in the current environment. A key objective lies in the establish goals and objectives and then form the team and team structure best suited to realize them. The process of determining the necessity of a Façade Consultant, using Descopé to determine the best vendor for the team, and engaging the contractor as a team member are tantamount to creating team oriented environments geared towards a common goal. Given that Design Assist is becoming more prevalent, we hope that this workshop becomes more of a forum to share experiences and trade lessons learned.

### Topics for engagement

- Round table assessment of who has been a part of design assist teams
- lessons learned, problems, mistakes, rewards, opportunities
- identifying pitfalls, understanding advantages to hone in on best practices
- qualifying BIM strategies and inefficiencies.

### Goals for the session:

- Understanding the difference between Single-source and Multi-trade design assist - Utilizing Façade Consultancy
- How to organize and document an efficient design-assist meeting plan, expediting the shop drawing process and maintain a record
- How to effectively manage the owners expectations, and effective steps to push testing standards for greater end value.
- Using BIM and effective data exchange strategies

### Josh Levy, AIA, LEED AP,

Senior Associate, Director of Technology

**Ballinger**

### Marcus W. Acheson V

Associate, Project Designer

**Ballinger**

# MAIN SUMMIT DAY ONE

Tuesday, January 24, 2012

## 7:45 Registration & Coffee

## 8:15 Opening Remarks

## 8:30 Design and Performance of Kinetic Facades

- Design Considerations: Joining the aesthetic and technical
- Planning and Process: Integration of operable facades within overall building development
- Environmental Benefits: Adaptive strategies to optimize performance

KEYNOTE ADDRESS

### Chuck Hoberman

Founder and Lead Architect  
**Hoberman Associates**

## 9:15 FROM NORTH AMERICA TO THE MIDDLE EAST - FAÇADE PERFORMANCE, CONSTRUCTABILITY & AESTHETICS

- Developing integrated and sustainable architecture, façade design, and landscape that is responsive to context, climate, and program.
- How performance, constructability, and aesthetics impact building enclosure designs.
- What are some innovative technologies in façade design?
- Lessons learned from international projects and its applications in domestic markets

### Guy Geier

FAIA, FIIDA, LEED AP, Managing Partner  
**FXFOWLE ARCHITECTS**

## 10:00 Morning Networking Break

## 10:45 Integrating Solar Energy Systems into Façade Designs: BIPV

- Overview of 3rd Generation Thin-Film Organic Photo Voltaic Devices
- New Technology to Extend the Length of the Solar Day
- Tap into an Unused Resource – East, West, South and North Vertical Surfaces of Buildings
- Enhanced Building Appearance using Color and Shape
- Illustrative Examples of Solar Curtain Walls

### Dr. Stuart M. Spitzer

VP of Engineering  
**Konarka Technologies, Inc.**

## 11:30 First Canadian Place—Redefining Canada's Tallest Office Tower

- Managing and accounting for deterioration of existing facade
- Review of new material selection process
- Triple laminated glass design challenges

FAÇADE RETROFITTING CASE STUDY

### Hamid Vossoughi

P.E., P.Eng.  
**Halsall Associates Limited**

### Vladimir Maleev

M.Eng., P.Eng.  
**Halsall Associates Limited**

## 12:15 Networking Lunch

## 1:15 Impact Resistance with Point Supported Glass

This session will focus on Bomb Blast and Hurricane Testing:

- Review latest test reports and research.
- Learn the keys to successful design of supporting components.
- Choosing the appropriate glass types for blast and hurricane resistant facades.

### Tim Morgan

Technical Manager  
**Pilkington Architectural**

## 2:00 Mediactecture: Using Media in Facades

- What are the current offerings of this technology?
- Find out how you can remain energy efficient while using media on your facades
- Assessing various materials in use by designers and contractors

### Brian Stacy

Lighting Leader  
**Arup**

## 2:45 The Solomon R. Guggenheim Museum, New York, NY

- Architectural skylight design and application
- Raising awareness of design issues regarding metal-framed skylights
- Water control at low sloping applications
- Importance of freeboard design at all slope angles

CASE STUDY

### George Petzen

CSI  
**Linel Architectural Glass and Metal Solutions**

## 3:15 Afternoon Networking Break

## 4:00 Double Skin Façade Typologies and Case Studies

- Early models: an overview
- Three case studies - Weill Cornell Medical Research Building, University of Michigan Biomedical Science Research Building, Riverhouse Residential Tower
- Performance benefits vs. cost

### Craig Mclhenny

Associate Partner  
**Ennead Architects**

### John Pachuta

Partner  
**R. A. Heintges & Associates**

## 4:45 Translational Strategies for Pushing the Mainstream Envelope

*Maximizing value applying innovative concepts to the modern practice*

Taking a cue from the healthcare industry, we aim to show how façade design can benefit from the concept of "Lab-to-Bedside", where research meets application in the most expeditious manner. The practice of crafting great buildings is one that utilizes the best practices, engages the brightest minds, and attains performance at the highest levels for enclosures that, according to the technological vernacular of today, are mainstream. How today's tools are used to build top performing buildings relies on a collaborative focus to design and deliver projects with ever more demanding budgets and schedules. In this session, you will learn how these tools can be implemented to enhance the creative process.

- precedent research – *allowing innovation to sell itself*
- team formation – *building the most effective team*
- unitization vs field fabrication – *evaluating options*
- material standards – *the value of precision*

CASE STUDY PRESENTED BY BALLINGER

### Marcus W. Acheson V

RA, LEED AP, Associate  
**Project Designer, Ballinger**

## 5:30 Cocktail Reception Party hosted by Enclos Corporation



## 6:30 End of Summit Day 1

# MAIN SUMMIT DAY TWO

Wednesday, January 25, 2012

7:45 **Registration & Coffee**

8:30 **Opening Remarks**

8:45 **Cornell University's Human Ecology Building**

This session will focus on the collaboration between three distinct stakeholders and the architect, the need for academic continuity and for a strong design that evokes the College's culture and draws others to the facility through the use of high performance and innovative design solutions.

- A presentation of the College's mission statement, stated goals and objectives, and program requirements
- Creating a high performance and responsive design within challenging contextual conditions and community concerns
- Realizing the design through a collaborative process between the stakeholders and the architect
- Implementing innovative façade design systems that incorporated glass, stone, metal panel and translucent material to achieve the stated project goals and exemplary design sought.

**Darko Hreljanovic**  
AIA, Partner

**GRUZEN SAMTON Architects LLP**

**James Kazda**

Sr. Director, Contract Colleges Facilities  
**Cornell University**

9:30 **Case Study of 215 East 68th Street, NYC**

Presented by NBK North America and Brisk Waterproofing  
NBK Architectural Terracotta façade reclad of an existing and occupied brick building.

**Mike Cleere, MSc Façade Engineering MSFE**

Senior Façade Designer  
**NBK**

**Michael C. Radigan, Jr**

Operations Manager  
**Brisk Waterproofing**

10:15 **Morning Networking Break**

11:00 **Complex Enclosures - How Digital Fabrication impacts Façade Design**

- What are the substantial advantages of digital fabrication as it relates to the planning process of complex enclosures?
- How to predict façade performance to manage the design process as well as deliver energy efficiency
- What are the implications and opportunities found in active components of façade systems

**Will Laufs**

PHD, PE, LEED AP, IWE, Principal  
**Buro Happold**

11:45 **Successful Institutional Procurement**

This session will include the design and procurement of the following projects:

- Land Port of Entry, Calais, Maine
- Yale University Health Services Building
- Dee and Charles Wyly Theater

**Marc Simmons**

Partner  
**Front Inc.**

12:30 **Networking Lunch**

1:30

CASE STUDY

**Emanuel Celler Courthouse—Considerations When Building for the Public**

- What was the image the clients, GSA & the US Courts, want the public to see given the security risks and upgrades required to address them.
- How to provide a high performance curtain wall that appropriately addresses a mid century modern courthouse while providing required performance enhancements e.g. increased thermal and solar heat gain performance, visual clarity, seismic blast and ballistic performance.
- What will the modernized courthouse look like in relationship to its new much larger addition, the Theodore Roosevelt US District Courthouse.
- How to build these new components in an occupied courthouse.

**Dirk Meyer**

AIA, National  
Building Enclosure,  
Technical Advisor

**US General Services  
Administration**

**William M. Singer**

AIA, LEED AP,  
Partner

**Gruzen Samton**

**Architects LLP**

**Peter J. Volandes**

Executive Vice  
President

and Principal

**Volmar Construction,  
Inc.**

2:15

**Ensuring Quality and Operational Integrity of Façade Design in New Buildings**

- Non-destructive techniques for analyzing façade integrity
- Updates and development in New York City building regulations
- Training of building operations staff on system operation and maintenance procedures.

**Neville Kermani**

Associate

**SUPERSTRUCTURES**

3:00

**Afternoon Networking Break**

3:30

**Holistic High Performance: Three Case Studies in Integrated Façade Design**

As expectations for building energy efficiency and environmental quality continue to rise, façade performance increasingly must integrate daylight and visual comfort, energy and thermal comfort, and aesthetic and experiential considerations. In order to balance these sometimes competing demands effectively, design teams must embrace an integrated façade design process that fully considers all performance aspects of a façade from the beginning, testing the design effectiveness iteratively throughout the façade development. This presentation will highlight the critical elements of an integrated faced design process through three case of façade design for the renovation of Mies van der Rohe's Crown Hall at IIT, the street wall façade of the Spertus Institute in Chicago, and a new Federal Office Building in South Florida for the GSA.

These case studies will highlight:

- The environmental performance factors critical to façade design
- Environmental analysis techniques and tools that support an integrated façade design process
- High performance considerations for historic facades

**Paul Stoller**

LEED AP BD+C, Director  
**Atelier Ten**

**Mark P. Sexton**

FAIA, LEED AP  
**KRUECK + SEXTON ARCHITECTS**

4:15

CASE STUDY

**Reinventing the Willis Tower**

- Overview of the façade techniques employed to enhance the sustainability of the Willis Tower
- Façade maintenance of the tallest building in the United States
- The design challenges and decisions for building the Ledge, the all-glass enclosure, of the Willis Tower

**John Koymans**

P. Eng., Principal

**Read Jones Christoffersen Ltd.**

5:00

**End of Summit Day 2**

Register by November 28th, 2011  
for savings of up to \$400!

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**5 EASY WAYS TO REGISTER:**

- 1 Web:** [www.facadedesignanddelivery.com](http://www.facadedesignanddelivery.com)
- 2 Call:** 1-800-882-8684
- 3 Email:** [info@iqpc.com](mailto:info@iqpc.com)
- 4 Fax:** 1-646-378-6025
- 5 Mail:** IQPC - 535 5th Avenue, 8th Floor  
New York, NY 10017

(Email this form to [info@iqpc.com](mailto:info@iqpc.com) or fax to 646-378-6025)

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- I cannot attend, but please keep me informed of all future events.

18747.004

## Registration Information

**Architects, Façade Engineers, Property Owners and Government Agencies**

	Register & Pay by November 28, 2011	Register & Pay by December 23, 2011	Standard Price
All Access	Save \$1,847 \$1,099	Save \$1,647 \$1,299	Save \$1,347 \$1,599
Main Conference Only	Save \$200 \$799	Save \$300 \$999	\$1,299
Workshops	\$549 each		

Vendors	Register & Pay by November 28, 2011	Register & Pay by December 23, 2011	Standard Price
All Access	Save \$1,547 \$1,949	Save \$1,397 \$2,149	Save \$1,097 \$2,449
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A \$99 processing charge will be assessed to all registrations not accompanied by credit card payment at the time of registration.

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