SKINS on Campus
BRIDGING INDUSTRY AND ACADEMIA IN PURSUIT OF BETTER BUILDINGS AND URBAN HABITAT

Join the Facade Tectonics Institute as we move beyond talk and into the realm of action and initiatives aimed at improving building performance and urban habitat through the art, science and technology of the building skin. Our SKINS ON CAMPUS theme combines networking with industry and academic leaders with a deep exploration of the building facade as the integrative factor in holistic building design. Read on for full program details.

FACADE TECTONICS
2018 WORLD CONGRESS
MARCH 12TH-13TH, 2018
USC SCHOOL OF ARCHITECTURE
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<td>TERRACOTA 1912 TO 2018: Center Case Study</td>
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<td>RETROFIT OPTIONS FOR HISTORIC FACADES: Analysis and Design of Cold Drapery Catcher Systems</td>
<td>THE “THERMAL BLANKET” CONCEPT: An Active Double Skin Facade at the Manhattan Beach Public Library</td>
<td>Multi-Layer Design Techniques in the Metal Facades of Kanezash Fariyad (Qazvin, Iran)</td>
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<td>Architectural Glass in the 70s: A Study in Inward Gazing</td>
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<th>13:00 SESSION 1</th>
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WORKING WITH BIG DATA: New Pathways to Design in the Digital Era
Cristobal Correa / BuroHappold Consulting Engineers
SEPARATING DIRECT FROM DIFFUSE: Observations of Viable Transmission Through a Tracking Photovoltaic Envelope
Nick Novelli / HelioOptics LLC
Robert Gordon / Arcon Solar LLC
ANISOTROPY AND HAZE MEASUREMENT WITH ONLINE SCANNERS: Balance between Architect’s Expectations and Glass Supplier’s Delivery Quality
Rainer Feuster / Viprotrox GmbH
ORIGAMI-INSPIRED Facade DESIGN: Parametric Studies for Architectural and Structural Efficiency
Joshua Schultz / Gonzaga University
Neil Katz / Skidmore Owings and Merrill
NEW PROVISIONS IN ASTM E1300-16: A comparison of the Basic and New Analytical Procedures for Determining the Load Resistance of Window Glass
Stephen More / Michigan Technological University

Novel Techniques for Facade Optimization
Victoria Herrickson / Thornton Tomasetti
DAYLIGHTING POST-OCCUPANCY EVALUATION STUDY: Baylor University Paul L. Foster Campus for Business and Innovation
Jae Yung Suk / University of Texas at San Antonio
Helena Zambriani / Olandet Partners
ANISOTROPIC EFFECTS IN ARCHITECTURAL GLASS: New Measuring and Monitoring Approaches
Lucas M. Hildago, Michael Elstner / ASC Interpane
TOWARDS A DATA DRIVEN FABRICATION PROCESS
Becher Nerve / Nerve Design Studio
Michael Kikelly / Archismart
Localized Rigifization Through PCM Freezing
Eliza Tizani / Stantec Architects

SUBJECTIVE PERCEPTION AND OBJECTIVE MEASUREMENT: The Standardization of Visual Effects in Glass
Caroline Larrue, Antonio Lux / Valozo
Ashley Reed / Eckersley O’Callaghan
CONTROLLING ANISOTROPY IN HEAT TREATED GLASS
Francis Semuy / Saint-Gobain Building Glass Europe (Brussels)
CURVED FORMING PANEL FACADES: Orangart Folding for Enhancing Diaphragm Strength
Scott Schroeder / Alfred State, Rigidized Metals Corporation
FULLY TEMPERED GLASS IN SPANDREL APPLICATIONS: Assessing the Residual Strength after Inner Light has Shattered
Stephanie Hoffman / Morrison Herrickfield

10:00 NETWORKING BREAK

10:30 SESSION 2

VERIFYING THERMAL PERFORMANCE: A Case Study
Matthew Herman / BuroHappold Engineering
EDGE LIGHTING GLAZING WITH HIDDEN FIXTURES: Integrated Dynamic LED Light into Modern Glass Facades
La F Fu / KSQ Architectural Lighting
DIRECT SUN AND OCCUPANT COMFORT: Practical Applications of the CBE SolarCat Method in the Design Process
Henry Richardson, Madeline Goudalis / Ailer Ten
OPTIMIZED GREEN WALL: A Tensioned Laser Cut Plate Structure
Algis Lencus / M Ludvik Engineering
Glass and Electromagnetic Sawadropping Protection
Eric Steen / Vacon

Thermal Comfort Assessment of Multi-Zone Electrometric Window
Ahco Makekabili / SageGlass
GLAZED SPANDRELS: Quantifying the Benefit of Venting to Minimize Risk of Glass Breakage
Julien Schwartz / Morrison Herrickfield
DC WATER HEADQUARTERS CASE STUDY: Parametric Tools to Optimize a Curved Facade
Sven Shockey, Leland Curtis, David Ferench SmithGroup LJR
EILLIPTICAL WAYS: Realization of Complex Forms by Means of Geometric Primitives and Planar Cladding Elements
Gustav Fagerstrom, Kelly Burkhart / Walter P Moore
SEISMIC MOVEMENTS: Mitigation Strategies, Case Studies, Parametric Analyses
Giba Libourel, David Segovia / Thornton Tomasetti

INNOVATIVE FACADE LIFE CYCLE ASSESSMENT: Establishing a Methodology
Vikki Lew / AIA Hong Kong Chapter
SHADOW BOX DESIGN: To Vent or Not To Vent
Mark Walsh / Perkins+Will
DECONSTRUCTING THE WINDOW: How to Achieve Optimum Thermal Performance
Helen Sanders / Technorm North America
MUSEUM OF FINE ARTS, HOUSTON: Challenges realizing a 250,000 sq ft Art School and Exhibition Building
Roman Schieber / Knippers Helbig

12:00 LUNCH BREAK

1:30 SESSION 3

INTERNATIONAL FACADE EDUCATION: Findings from the Facade Design and Technology Survey
James Doerfler / Thomas Jefferson University
Performance Based Generative Facade Workflow for Large Scale Projects
Tim Logan / HMS / LINE
Thermal Analysis of Complex Glazing
Adrian Tourco / Transair Insulation Engineering
IN FACTORY COMMISSIONING: The Role of Factory Inspections in the BCA Process
Roberto Golda / Horizon Engineering LLP
Collaborative Methodology for Fastracking Challenging Facade Concepts
Stuart Berenbeim / BB Design

TEACHING FACADES: One Goal, Three Approaches to Facade Design Curriculum
Aiko Tachir / HGA Architects, University of Minnesota
GENERATIVE DESIGN TOOL: Integrated Approach Towards Development of Piezoelectric Facade System
Aron Hoasunnudal Zarevari / University of North Carolina at Charlotte
CLIMATE-ORIENTED PREFABRICATED BUILDING ENVELOPES: Methodology to Aid Building Envelope Selection
Nishitaran Gandhi / Mizuho
Andrey Tsy Tsy Jacobs / Perkins+Will

THINKING ABOUT FACADES: A Theoretical Perspective for Useful Prototypes
Marc Schiller / University of Southern California
Digital Medium, Tangible Message
Nathaniel Barlam / Virtual Construction Lab of Schüco
COUPLING FACADE AND STRUCTURE: Engineering a Breathable Skin
Shere Levine, Jessica Chen / Walter P Moore

3:00 SPECIAL PRESENTATION
4:00 CONCLUSION
ORGANIZATIONAL MEMBERS OF THE FACADE TECTONICS INSTITUTE

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