



Facade
Tectonics

WORLD
CONGRESS

LOS ANGELES

Beyond the Dialogue

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 building facade technology. Our FACE TIME theme combines networking with industry leaders and a deep exploration of the building facade as the integrative factor in holistic building design. Read on for full program details.

FACADE TECTONICS

2016 WORLD CONGRESS

OCTOBER 10TH-11TH, 2016

SHERATON GRAND LOS ANGELES

8:30	SESSION 1	MATERIAL <> TECTONICS California D	DAYLIGHT <> CONTROL California E	INTEGRATION <> ADAPTION California F	COMFORT <> SKIN Wilttern	PROCESS <> DELIVERY El Capitan
		<p>Wherefor Aluminum: The Materiality of Curtainwall Framing Systems Peter Arbour, Ashley Reed / Vidaris</p>	<p>Discomfort Glare Metrics: Investigating Their accuracy and Consistency in Daylight Glare Evaluation by Using Human Subject Study Data Jae Yong Suk / The University of Texas at San Antonio</p>	<p>Adaptive Envelope: Behavior Derived From Climate James Erickson / Arizona State University</p>	<p>Energy Code Implications for Spandrel Design: Quantifying and Mitigating the Impact of Thermal Bridging Stéphane Hoffman / Morrison Hershfield Corporation</p>	<p>Breaking the Barrier: Developing Formal Partnerships Between Architects and Extruders Scott Condreay / Sapa Extrusions North America</p>
		<p>Fabric-formed Robotic Facades: The Robotic Positioning of Fabric Formwork Ron Culver / Culver Architects Joseph Sarafian / Perkins + Will</p>	<p>Avoiding The Dreaded Death Ray: Controlling Facade Reflections Through Purposeful Design Ryan Danks / Rowan, Williams, Davies & Irwin Inc.</p>	<p>COST: Adaptive Facades Thomas Henriksen / TU Delft</p>	<p>Break it or Lose It: Thermal Bridging in Building Envelopes Charles Klee, Jeffrey Abramson / Payette</p>	<p>Work Different for Different Work: Changing the Way We Collaborate to Achieve Artfulness in the Facade Hagy Belzberg, Cory Taylor, Kristofer Leese / Belzberg Architects</p>
		<p>The Dynamic Double Facade: An Integrated Approach to High Performance Building Envelopes Edgar Stach, Barbara Klinkhammer / Philadelphia University, College of Architecture and the Built Environment</p>	<p>Daylight Glare Analysis: Reducing Visual Discomfort in the Crystal Cathedral Greg Collins, Chanyang Shin / Syska Hennessy Group</p>	<p>Facades with Gills: Advanced Technology in Hybrid Breathing Facade Systems John E. Breshears / Architectural Applications Erin McConahey, Irene Pau, Matt Williams / ARUP</p>	<p>Balancing Energy and Aesthetics: The Wilshire Grand Envelope Study Brian Stern, Laure Michelin / Glumac</p>	<p>Glazing Hazard Assessment: Collaborative Design for High Fidelity Facade Analysis Kirk A. Marchand, Carrie E. Davis / Protection Engineering Consultants</p>
10:00 NETWORKING BREAK – SPONSORED BY KURARAY						
10:30	SESSION 2	MATERIAL <> TECTONICS California D	DAYLIGHT <> CONTROL California E	INTEGRATION <> ADAPTION California F	COMFORT <> SKIN Wilttern	PROCESS <> DELIVERY El Capitan
		<p>Parameters for Plasticity: An Approach to Unitized FRP Facade Design Jeff Ponitz, Mark Cabrinha / Cal Poly State University, San Luis Obispo</p>	<p>Retrospective Optimization: Balancing Openings and Shading Devices for Kahn’s Psychiatric Hospital Clifton Fordham / Temple University, Department of Architecture</p>	<p>Adaptable Facade: A Case Study of High Performance System in Relation to the Human Condition Christianne Jordan / BNIM Greg Collins / Syska Hennessy Group</p>	<p>Development of Enclosure Details: Optimization Aided by Thermal Simulation Christian Stutzki / STUTZKI Engineering, Inc.</p>	<p>Managing Complexity: Implementing Parametric Tools in Project Management – A Case Study Matt Cohn, Alessandro Ronfini / Enclos</p>
		<p>FRP Composite Facade: Using FRP on High-rise Buildings Bill Kreysler / Kreysler & Associates</p>	<p>The Effectiveness of SUDARE: External Shading for Energy Efficiency and Visibility Quality in Jakarta Agus Hariyadi / The University of Kitakyushu</p>		<p>Measuring Envelope Heat Transfer: In-Situ Methods for Architects and Architectural Researchers Michael D. Gibson / Kansas State University, Department of Architecture</p>	<p>Light as Form Generator: Workflows for Performance-Based Generative Design Luisa Caldas / University of California, Berkeley, Department of Architecture</p>
		<p>Adhesive Bonding in a Ventilated Facade: Structural Silicon Glazing of Composite Panels Stanley Yee / Dow Corning</p>	<p>The Effectiveness of Fixed Solar Shading: A Case Study Ned S. Kirschbaum / Fentress Architects</p>	<p>LEAF (Low Energy Adaptive Facade): Self-adapting Micro Shading Facade Design Using Responsive Polymer Sheets Jin Young Song / University at Buffalo, Department of Architecture</p>	<p>Glazing Design and Winter Thermal Comfort: Making Informed Decisions Early in the Design Process Alejandra Menchaca, Lynn Petermann / Payette</p>	<p>Performative Morphogenesis: A Performance-Oriented Data-Driven Facade Design Process Furion Huang / NBBJ</p>
12:00 LUNCH BREAK						
1:30	SESSION 3	MATERIAL <> TECTONICS California D	DAYLIGHT <> CONTROL California E	INTEGRATION <> ADAPTION California F	COMFORT <> SKIN Wilttern	PROCESS <> DELIVERY El Capitan
		<p>Innovative Complex Geometry GFRC: Thin-walled Concrete Panels for Future Building Envelopes Thomas Henriksen / TUDelft and Mott Macdonald</p>	<p>Circadian Daylight in Practice: Determining a Simulation Method for the Design Process Henry Richardson / Atelier Ten</p>	<p>Material Actuation in Architecture: Using Shape Memory Alloy in Dynamic Vera Parlac / University of Calgary</p>	<p>Climate Data: Tall, Supertall and Megatall Buildings Peter Simmonds / Building and Systems Analytics</p>	<p>Envelope Longevity: The Benefits of the Building Enclosure Commissioning Process Robert Golda / Horizon Engineering Associates, LLP</p>
		<p>Precast Concrete Envelope Systems: Three Distinct Systems, their Attributes and Limitations Doug Mooradian / PCI West</p>	<p>WELL Retrofit Case Study: Balancing Opportunities and Challenges Stacey Hooper, Joseph Montange / NBBJ Shruti Kasarekar / Atelier Ten</p>	<p>Structural Skin: Integrating Structure and Cladding John Neary / HOK NY</p>	<p>Cost-benefit Analysis of BIPV Systems: Axial Sun Tracking Louvers for Various Geographic Locations Edgar Stach / Philadelphia University, College of Architecture and the Built Environment</p>	<p>Cellular Shells as Structural Networks: Mesh-based Engineering Optimization in Freeform Aggregated Structures Keyan Rahimzadeh / Front, Inc.</p>
		<p>High Performance Concrete Facades: UHP-FRC in Precast Sandwich Panel Design Jonathan M. Essary / University of Texas Arlington</p>	<p>Shadow Boxes: Re-engineered Daniel Arztmann / Schüco International KG</p>	<p>Understanding and Enhancing Ventilated Facades: From the System Benefits to Smart Sidings Material Olivier Jung / Trespa International B.V.</p>	<p>High Performance Facades: Heating and Cooling Loads Generation Peter Simmonds / Building and Systems Analytics</p>	<p>Timber Facades: A Conversation about the Engineering Process Robert Moisy / Surface Design Consulting Pty Ltd</p>
3:00 NETWORKING BREAK						
3:30	SESSION 4	MATERIAL <> TECTONICS California D	FACADE <> EDUCATION California E	INTEGRATION <> ADAPTION California F	COMFORT <> SKIN Wilttern	PROCESS <> DELIVERY El Capitan
		<p>New Options for the Envelope: Applications for Modular Pre-tensioned Textile Frames Robert W. Jagger / Schüco International KG</p>	<p>An Ideal Curriculum: Preparing Architecture Graduates for a Career in Enclosure Design Diane Armpriest / University of Idaho, College of Art and Architecture</p>	<p>3D Glass in Complex Facades: Annealed Bent Glass Ferran Figuerola / CRICURSA</p>	<p>Impact of Climate Change: Thermal and Energy Performance of Facade Types in Different Climates Ajla Aksamija / University of Massachusetts Amherst, Department of Architecture and Perkins+Will</p>	<p>Data and Order: A Making of Complex Architecture Na Min Ra, Evan Levelle / Front, Inc</p>
		<p>Performative Water-filled ETFE Cushions: Adaptive Building Envelope Jochen Lam / Transsolar Climate Energietechnik GmbH</p>	<p>Facade Education Survey for Industry and the Academy James Doerfler / Philadelphia University</p>	<p>Electrochromic Glass: Maximizing the Performance Through Optimum Zoning and Control Strategies Helen Sanders / SAGE Electrochromics, Inc.</p>	<p>Cooling with Water and Green Roofs: Passive Systems to Improve Thermal Comfort in Buildings Pablo La Roche / Cal Poly Pomona University & CallisonRTKL</p>	<p>3D Glass Facade Design Apps: Design, Development and Evaluation Qi You / China Smart Construction Group Co., Ltd</p>
		<p>Glass or ETFE? A High-Transparency Material Discussion Kais Al-Rawi, Sanjeev Tankha / Walter P Moore</p>	<p>Analysis, Sensors, and Performance: Closing the Loop with Post-Occupancy Data Analysis TBA / Kohn Pederson Fox Associates; CLEB (Building Envelope Laboratory and Consulting)</p>	<p>Verification of Insulating Glass Units in Modern Curtainwall Facades Michael Elstner / Interpane</p>	<p>Metabolic Masonry: Energy & Material Exchange for Healthy Interiors Carmen Trudell / California Polytechnic State University, San Luis Obispo</p>	<p>Analog Analogues: Reconstructing “Pay” in the Exploration of Building Facade Strategies Robert Alexander / Cal Poly Pomona, Department of Architecture</p>
5:00 RECEPTION – HOSTED BY WALTER P MOORE						

8:30 SESSION 1		RENOVATION <> PRESERVATION California D	GLASS <> STRUCTURE California E	TRANSPARENCY <> SECURITY California F	VENTILATION <> SKINS Wiltorn	PROCESS <> DELIVERY El Capitan
		Envelope Efficiency in the Public Sector: Edith Green-Wendell Wyatt Facade Replacement Laure Michelon, Dave Summers / Glumac	Strength of Point-Supported Glass: Influence of Stress Concentrations and Drilling Defects in Monolithic Tempered Glass Plates John Knowles / Stutzki Engineering Joshua Schultz / Gonzaga University	Transparent Security in Federal Architecture: A Case Study in Balancing Transparency, Security, and High Performance Mark P. Sexton / Krueck + Sexton Architects	Trickle Vent: New Generation Ventilation System Paul Burch / Metal Yapi USA Inc.	Canadian Window Wall: Design Challenges and Opportunities George Torok / Morrison Hershfield Ltd.
		Louis Kahn's Stainless Steel Glazing System: Performance Upgrades in the Richards Building Aaron Davis / Heintges & Associates David Fixler / EYP Architecture and Engineering	Philosophy of Structural Glass Design: Progress on the ASTM Structural Glass Guide Richard Green / Front, Inc	Blast & Ballistic Protection: A New Kind of Protective Curtainwall Tim Brewer / Karagozian & Case, Inc.	Slide and Push: Integrated Curtainwall Sliding Vent System Zuhal Özgül / Metal Yapi USA Inc.	Precision on the Jobsite: Tight Tolerance Features in a Low Tolerance World Michael Mulhern / TriPyramid Structures, Inc.
		Refurbishing 20thC UK Heritage Facades: Success and Failures of Design and Delivery Clive Atkinson / Mott MacDonald	The Stavros Niarchos Foundation Cultural Center: Innovative Facade Systems Contrasting Monumental Massing and Structural Glass Richard Green / Front, Inc	Super Transparent and Complex: Cutting Edge Facade Technology in Doha, Qatar Thomas Winterstetter / Werner Sobek Stuttgart AG	Thermal Chimney: An Investigation into Passive Air Movement Chad-Jamie Rigaud / BNIM	Facade Option Engineering: Optimization of Transparency in a Mega Glass Lite Project Steve Lewis, Vickie Chiou / Walter P Moore
10:00 NETWORKING BREAK – SPONSORED BY KURARAY						
10:30 SESSION 2		RENOVATION <> PRESERVATION California D	LAYERS <> ORIENTATION California E	FACADE <> FUTURE California F	ACOUSTICS <> SKIN Wiltorn	ADVANCED <> CASE STUDIES El Capitan
		Making the Glass House Habitable: The Debate on Transparency and A. William Hajjar's Contribution in the Mid-Twentieth Century Ute Poerschke / The Pennsylvania State University	The "Air-Wall": A Mid-Twentieth-Century Double-Skin Facade by A. William Hajjar Mahyar Hadighi / The Pennsylvania State University	FutureHAUS: Industrializing Architecture in the Digital Age Joseph Wheeler / Virginia Tech, Center for Design Research	Sound Control Laminated Glass: Improving Acoustical Performance Valerie Block / Kuraray	Entisar Tower: The Next Generation of Super Tall Towers Matthew Fineout / AE7
		Innovative Envelope: Experimental Technologies On Skyscrapers 1945-75 Michelle Schneider Santos / Mackenzie Presbyterian University	Double Skin Facades: Thermal and Energy Performance in Different Climate Types Ajla Aksamija / University of Massachusetts Amherst, Department of Architecture and Perkins+Will	NEXUSHAUS Building Envelopes: Zero Net Energy, Net Positive Water, & Carbon Neutral Sanaz Delar / The University of Texas at Austin, School of Architecture	Glass House for Music: Exploring Glass Walls for Concert Halls Jin Young Song / University at Buffalo, Department of Architecture Arthur van der Harten / Acoustic Distinctions Pachyderm	Case Study – 222 2nd St: Technical Development of a Shingled Curtainwall Karen Brandt / Heintges & Associates
		Steel and Backed Clay: The Invention of the Curtainwall in American Skyscrapers Michele Chiuni / Ball State University	Parametric Study: Advanced Structural Silicone Glazing John Gustafson / Curtain Wall Design & Consulting, USA	Intelligent Tensegrity Structures: An Autonomous Adaptive Facade System Phillip Anzalone / New York City College of Technology & Atelier Architecture 64 Stephanie Bayard / Pratt Institute & Atelier Architecture 64	Sound Flanking at Unitized Mullions: Performance Reduction Across Curtainwall Elements Elizabeth Valmont / ARUP	Integrated Curtainwall Design: Design-Build Process of the LA Federal Courthouse Jose Palacios, Garth Ramsey, Andrew Krebs / SOM
12:00 LUNCH BREAK						
1:30 SESSION 3		RENOVATION <> PRESERVATION California D	LAYERS <> ORIENTATION California E	FACADE <> FUTURE California F	FTI <> FACADE TECTONICS INSTITUTE Wiltorn	MAINTENANCE <> LIFECYCLE El Capitan
		Reglazing Modernism: The American and European Experience To Date Angel Ayón / AYON Studio Architecture and Preservation	21st Century Collegiate Gothic: Design and Fabrication of Concrete Precast Panels at USC Village Jon Soffa / USC Willy Marsh / USC Capital Construction Development Michael Bulander, Chris Wedel / Harley Ellis Devereaux (HED)	Algae Textile: A Lightweight Photobioreactor for Urban Buildings Petra Bogias / BoyashiMade	The Facade Tectonics Institute FTI Steering Committee	Compliant Access and Maintenance Planning: How to Increase the Sustainability and Minimize Operational Risks Philip Weisse / TAW WEISSE International
		Curtainwall Deficiencies and Failures: Observations on Multi-story Buildings in Istanbul Elif Tuğba Yalaz / Istanbul Technical University	The Fifth Facade: Exploring and Celebrating Horizontality Alex Korter / CO Architects	Bio-Inspired Urban Futures: Designing Adaptive Facade Networks to Reimagine the City Ecosystem Ilaria Mazzoleni / imstudio mi/la		Facade Health(care): Extended Envelope Lifespans through Permanence, Adaptability and De-Generation Kevin Kavanagh / CO Architects
2:30 NETWORKING BREAK						
3:00 SESSION 4		SPECIAL PRESENTATION				

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