

9.45 h	<b>Opening</b> <i>Michael Degen, Messe Düsseldorf Jens Schneider and Bernhard Weller</i>
10.00 h	<b>Against the Thin Skin, Glass as Thick Materiality of Light</b> <i>Chris McVoy, Steven Holl Architects</i>
10.30 h	<b>Developments in Structural Glass, Past, Present and Future</b> <i>Rob Nijse, Delft University of Technology</i>
11.00 h	<b>Coffee break</b>

BLOCK 1	FACADE – ARCHITECTURAL DESIGN ROOM 2   CHAIRMAN: DANIEL ARZTMANN	SPECIAL SESSION – STANDADISATION AND DESIGN ROOM 1   CHAIRMAN: JENS SCHNEIDER	GLASS – COMPOSITES AND COATINGS ROOM 3   CHAIRMAN: STEFAN REICH
11.30 h	All-glass entrance pavillion for an office building in Madrid <i>Jordi Torres, Bellapart</i>	Comparison of IGU and LSG-design according to German and European Standard <i>Geralt Siebert, Bundeswehr University Munich</i>	Dimensioning of Elastic Adhesive Joints with Complex Geometries <i>Thomas Scherer, Kömmerling Chemische Fabrik</i>
11.50 h	Studies on glass facades morphologies <i>Marcin Brzezicki, Wroclaw University of Science and Technology</i>	ASTM glass structures standard – Going beyond a design guide for a unique engineering material <i>Richard Green, FRONT</i>	Bonding Quality of Joined Glass Components Exposed to UV and Fluidic Influences <i>Christin Sirtl, Bauhaus University of Weimar</i>
12.10 h	Double-Skin Facades: Boundary Conditions, Challenging Examples and Developments <i>Xénia Cseh, seele</i>	Different methods for the calculation of laminated glass: pros and cons in the prospective of standardization <i>Gianni Royer-Carfagni, University of Parma</i>	Crack nucleation in hyperelastic adhesive bonds <i>P.L. Rosendahl, Technische Universität Darmstadt</i>
12.30 h	A new building envelope – increasing daylight and energy efficiency with water flow glazing <i>Daniel Pfanner, Bollinger + Grohmann Ingenieure</i>	Micromechanically-motivated calibration of partial material factors for glass strength for the new structural Eurocode <i>Gianni Royer-Carfagni, University of Parma</i>	Racking stiffness and strength of cold-formed steel frames braced with adhesively bonded glass panels <i>Bert Van Lancker, Ghent University</i>
13.00 h	<b>Lunch</b>		

BLOCK 2	FACADE – ARCHITECTURAL DESIGN ROOM 2   CHAIRMAN: JENS SCHNEIDER	GLASS – STRUCTURAL DESIGN ROOM 1   CHAIRMAN: FRANK WELLERSHOFF	GLASS – COMPOSITES AND COATINGS ROOM 3   CHAIRMAN: GIANNI ROYER-CARFAGNI
14.00 h	Climate Change and its Influence on Glazed Curtain Wall Design <i>Daniel Arztmann, Schüco International, Detmold School of Architecture and Interior Architecture</i>	Design of statically indeterminate reinforced glass beams: accounting for system action <i>Kenny Martens, Ghent University</i>	Development of a mobile device for the evaluation of the current in-situ stress condition in glass – Experimental and numerical analysis for bonded and mechanical joints <i>Benjamin Schaaf, RWTH Aachen University</i>
14.20 h	Open BIM – Driving force for a new culture and new possibilities in facade business <i>Timo Bühlmeier, Josef Gartner</i>	Testing Procedure and the Effect of Testing Machinery on Four-Point Bending of Curved Glass <i>Paulina Bukieda, Technische Universität Dresden</i>	Laminated glass with phosphorescent interlayer <i>Stefan Reich, Anhalt University of Applied Sciences</i>
14.40 h	The Seattle Space Needle – Opening the aperture on an icon <i>Richard Green, FRONT</i>	The geometrical properties of random 2D Voronoi tessellations for the prediction of the tempered glass fracture pattern <i>Navid Pourmoghaddam, Technische Universität Darmstadt</i>	Independent testing of Sparklike Laser™ – Non-destructive insulating glass gas fill analyser <i>Mauri Saksala, Sparklike Oy</i>
15.00 h	Benefits of optical distortion measurement – How Moiré technology drives the efficiency of glass production chains <i>Bertrand Mercier, ISRA VISION</i>	Flaws and cracks stability in strengthened glass by residual stress <i>Guglielmo Macrelli, Isoclima SpA – Science Division</i>	Laminated Glass with Stiff Interlayers – Glass Canopies with Spans up to 1.2 Meters <i>Julian Hänig, Technische Universität Dresden</i>
15.30 h	<b>Coffee break</b>		

BLOCK 3	SOLAR TECHNOLOGY ROOM 2   CHAIRMAN: ULRICH KNAACK	GLASS – STRUCTURAL DESIGN ROOM 1   CHAIRMAN: GERALT SIEBERT	FACADE – PROJECTS ROOM 3   CHAIRMAN: MICHAEL ENGELMANN
16.00 h	Energetic capability of photovoltaic thermal collectors in the facade <i>Christian Popp, Technische Universität Dresden</i>	Facade Brackets for Blast Enhancement <i>Frank Wellershoff, HafenCity University Hamburg</i>	Optimized Adhesive for Structural Sealant Glazing in Blast Scenarios <i>Viviana Nardini, Sika Services</i>
16.20 h	Translucent wall elements with switchable U- and g-value <i>Nikolaus Nestle, BASF SE Advanced Materials and Systems Research</i>	Design and Construction with Curved Glass <i>Thiemo Fildhuth, Knippers Helbig</i>	Fixed sunshade device for overhead glazing <i>Daniel Kleineher, kleineher+partner</i>
16.40 h	Solar thermal energy from opaque and semi-transparent facades – current results from R&D project Arkol <i>Paul-Rouven Denz, Priedemann Facade-Lab</i>	Feasibility of bent glasses with small bending radii <i>Tobias Rist, Fraunhofer Institute for Mechanics of Materials IWM</i>	Field of Rods: Part 2. Mockup and Performance Testing of TSSA <i>Lawrence Carbarry, Dow Performance Silicones</i>
17.00 h	Structural sealant glazing with architecturally designed photovoltaic modules <i>Karoline Fath, Ed. Züblin AG</i>	Comparative analysis of the glass plate design <i>Nebojsa Buljan, Andrej Vorkapic, Ivana Rakic</i>	Fully loadbearing all glass skin for the Audemars Piguet watch museum <i>Philippe Willareth, Lüchinger Meyer Hermansen</i>
18.00 h	<b>guided tour through glass technology live</b>		
18.30 – 22.00 h	<b>get together at gtl-café</b>		

9.45 h	<b>Opening</b> <i>Michael Degen, Messe Düsseldorf Jens Schneider and Bernhard Weller</i>		
10.00 h	<b>Performative and regenerative: Facade Ecosystems</b> <i>Jan Wurm, Arup</i>		
10.30 h	<b>Die CEN TS "Structural Glass – Design and Construction Rules" as pre-standard for the Eurocode</b> <i>Markus Feldmann, RWTH Aachen University</i>		
11.00 h	<b>Coffee break</b>		
<b>BLOCK 1</b>	<b>FACADE – STRUCTURAL DESIGN</b> ROOM 2   CHAIRMAN: ULRICH KNAACK	<b>SPECIAL SESSION – THIN GLASS</b> ROOM 1   CHAIRMAN: MARKUS FELDMANN	<b>GLASS – PROJECTS</b> ROOM 3   CHAIRMAN: FELIX NICKLISCH
11.30 h	<b>Bracing Timber-glass-facade   Feasibility studies, performance assessments and optimization</b> <i>Alireza Fadaei, Vienna University of Technology</i>	<b>Development of Thin Glass-Polycarbonate Composite Panels</b> <i>Sebastián Andrés López, Universität Siegen</i>	<b>Glass Sculpture at Dr. George Robert Grasett Park</b> <i>Han Yao, Entuitive</i>
11.50 h	<b>The Electricity Generating Window of the Future</b> <i>Sadiq van Overbeek, Physee</i>	<b>Kinetic Omni-Stable Structural Forms Using Ultra-Thin High-Strength Glass for Envelope Applications</b> <i>Peter Lenk, Arup</i>	<b>Mistral Tower: Value of System Design, Manufacturing and Installation in Cold Bent SSG Units</b> <i>Viviana Nardini, Sika Services</i>
12.10 h	<b>Electrically heatable Low-E glass</b> <i>Timo Saukko, Finnglass Oy</i>	<b>Theoretical development of suitable test scenarios for the determination of the bending tensile strength of thin glass with or without influence of edges and their experimental implementation</b> <i>Jürgen Neugebauer, University of Applied Sciences FH</i>	<b>Qwalala – Monumental sculpture made out of glued glass blocks</b> <i>Christoph Paech, schlaich bergermann partner</i>
12.30 h	<b>Application of silicone technology in curtain wall facade to improve thermal performance</b> <i>Valérie Hayez, Dow Silicones Belgium</i>	<b>Adaptive and Composite Thin Glass Panels</b> <i>Christian Louter, Delft University of Technology</i>	<b>Sana Al-Nour: the development of a unique integrated artwork</b> <i>Luke Lowings, Carpenter   Lowings A e- D</i>
13.00 h	<b>Lunch</b>		
<b>BLOCK 2</b>	<b>FACADE – STRUCTURAL DESIGN</b> ROOM 2   CHAIRMAN: ALIREZA FADAI	<b>SPECIAL SESSION – THIN GLASS</b> ROOM 1   CHAIRMAN: JÜRGEN NEUGEBAUER	<b>GLASS – PROJECTS</b> ROOM 3   CHAIRMAN: CHRISTIAN LOUTER
14.00 h	<b>Nike Flagship Facade – Design, Engineering and Testing</b> <i>Daniel A. Vos, Heintges Consulting Architects &amp; Engineers</i>	<b>Design concept for cold bent shell structures made of thin glass</b> <i>Gordon Nehring, Bundeswehr University Munich</i>	<b>Glass Bow for the Iran Mall in Tehran</b> <i>Bernd Stimpfle, formTL ingenieure für tragwerk und leichtbau GmbH</i>
14.20 h	<b>Behavior of load-bearing glass at elevated temperature</b> <i>Dániel Honfi, RISE Research Institutes of Sweden</i>	<b>Honeycomb-Paperboard Glass Composite Beams</b> <i>Michael Drass, Technische Universität Darmstadt</i>	<b>Hidden features of structural glass engineering in a contemporary museum</b> <i>Kathrin Havemann, Waagner-Biro Stahlbau</i>
14.40 h	<b>Fused deposition modeling with glass for facade applications</b> <i>Robert Akerboom, Technische Universität Darmstadt</i>	<b>Introducing the "Cylinder Fit Test", a simplified edge strength measurement method for Ultra Thin Glass</b> <i>Matthias Jotz, SCHOTT</i>	
15.00 h	<b>Coffee break</b>		