



CHALLENGING GLASS 6 – PRELIMINARY PROGRAM / DAY 1: THURSDAY MAY 17 - 2018

8:30 – 9:30 Coffee & Registration				
9:30 – 11:00 Plenary Opening Session Opening Words / Keynote 1: Prof. Stefan Behling, Foster & Partners				
11:00 – 11:20 Coffee & Tea				
11:20 – 12:20 Parallel Sessions	Glass in Facades Prof. Jurgen Neugebauer	Architectural Design, Geometries & Lighting Chair: Prof. Paulo Cruz	Strength & Stability Prof. Jens Schneider	Laminated Glass & Interlayer Properties Prof. Jan Belis
11:20 – 11:40	Glass facades under seismic events and explosions - A novel distributed-TMD design concept for building protection <i>Chiara Bedon, Claudio Amadio</i>	Dematerialisation of the ruins: Glass as a promising restorative material for the consolidation of historic structures <i>Lida Barou, Faidra Oikonomopoulou, Telesilla Bristogianni, Fred Veer, Rob Nijse</i>	The Effect of Edge Processing in Thin Glass for Cold Bending Applications <i>Marco Cervio, Giovanni Muciaccia, Gianpaolo Rosati</i>	Sensitivity analysis for the determination of the interlayer shear modulus in laminated glass using a torsional test <i>Martin Botz, Michael Kraus, Geralt Siebert</i>
11:40 – 12:00	Investigating the Energy Efficiency, Environmental and Daylighting Performance of Coated Glazing <i>Nazanin Eisazadeh, Karen Allacker, Frank De Troyer</i>	Differentiation in architecture by professional designs and new materials <i>Emmanuel Barrois, Yvan Belletre, Artur Bechtloff</i>	Repair of Soda-Lime-Silica Glass <i>Kyriaki Corinna Datsiou, Dominic Hall, Mauro Overend</i>	Post-breakage tensile and bending response of laminated glass <i>Laura Galuppi, Gianni Royer Carfagni</i>
12:00 – 12:20	Silicone Spandrel Glass Coatings: Mitigating Glass Breakage Risk from Thermal and Other Stresses <i>Lawrence Carbary, Chris Barry, Scott Norville, Samir Blanchet, George Torok, Stephane Hoffman, Kris Vockler, Tim Krytenberg, John Swanson</i>	Serrated glass facades. The influence of façade morphology on aesthetic quality <i>Marcin Brzezicki</i>	An Analysis of Glass Fracture Statistics <i>David Kinsella, Kent Persson</i>	Structural Analysis of Slender Glass Panel Subjected to Static and Impact Loading <i>Marcin Kozłowski, David Kinsella, Kent Persson, Jan Kubica, Jacek Hulimka</i>
12:20 – 14:00 Lunch				
14:00 – 15:20 Parallel Sessions	Projects & Case studies Dr. Freek Bos	Joints & Fixings & Adhesives Dr. Martina Eliasova	Strength & Stability Dr. Stephen Morse	Numerical Modeling & Experimental Validation Dr. Jens Henrik Nielsen
14:00 – 14:20	Hybrid GLASS-Steel Stele (HYGLASS): preliminary mechanical study on a smart tetrahedral cantilevering tall structure <i>Maurizio Froli, Francesco Laccone</i>	Developments in GFRP Reinforced Bolted Joints in Glass <i>Mithila Achintha, Tudor Zirbo</i>	Probability Distributions in the Glass Failure Prediction Model <i>Samir Blanchet, H. Scott Norville, Stephen M. Morse</i>	Calculation Methods of Glass Parapets in Aluminium Parapet Clamping Profiles <i>Youri Baidjoe, Bert van Lancker, Jan Belis</i>
14:20 – 14:40	The glazing for the stairs in the refurbished Margherita Theatre in Livorno <i>Masiello, Mamone, Difonzo</i>	Numerical modelling of adhesive connections including cohesive damage <i>Chiara Bedon, Klára Machalická, Martina Eliášová, Miroslav Vokáč</i>	Exploring Thin Glass Strength Test Methodologies <i>Francisco Oliveira Santos, Christian Louter, João Ramôa Correia</i>	Thermo-mechanical numerical modelling of structural glass under fire - Preliminary considerations and comparisons <i>Chiara Bedon, Christian Louter</i>
14:40 – 15:00	Building and Testing Lenticular Truss Bridge with Glass-Bundle Diagonals and Cast Glass Connections <i>Ate Snijder, Rob Nijse, Christian Louter</i>	Laminated glass connection details: towards homogeneous material joints in glass <i>Philipp Eversmann, André Ihde</i>	A micro-mechanically motivated model for the strength of heat-treated glass <i>Gabriele Pisano, Gianni Royer Carfagni, Antonio Occhiuzzi, Antonio Bonati</i>	Innovative Glass Recipes Containing Industrial Waste Materials <i>Clarissa Justino de Lima, Fred Veer, Oguzhan Çopuroglu, Rob Nijse</i>
15:00 – 15:20	Glass and Media Facades - Energy Refurbishment <i>Jasna Čikić Tovarović, Jelena Ivanović-Šekularac, Nenad Šekularac</i>	Experimental Investigation of Mortar Mechanical Properties for Glass Brick Masonry <i>Jiří Fila, Martina Eliášová, Zdeněk Sokol</i>	Residual stress distribution in tempered glass with reground edges <i>Katharina Lohr, Bernhard Weller</i>	Investigations on a segmented post-tensioned hybrid steel-glass beam <i>Vincenzo Mamone</i>
15:20 – 15:40 Coffee & Tea				
15:40 – 17:00 Parallel Sessions	Projects & Case studies Prof. Rob Nijse	Joints & Fixings & Adhesives Dr. Mauro Overend	Strength & Stability Dr. FredVeer	Hybrid & Composite Glass Components Dr. Christian Louter
15:40 – 16:00	Revolving entrance doors - machines or structural elements? <i>Andreas Haese</i>	Edge-laminated Transparent Structural Silicone Adhesive (TSSA) Steel-to-Glass connections <i>Anna Ioannidou-Kati, Manuel Santarsiero, Christian Louter</i>	Which is the right reference surface compression value for heat treated glass? <i>Ennio Mognato, Stefano Brocca, Fabrizio Comiati</i>	Research on Thin Glass-Polycarbonate Composite Panels <i>Sebastian Andrés Lopez, Thorsten Weimar</i>
16:00 – 16:20	Stability of dry-stacked glass masonry arch bridges <i>Chris Noteboom, Mike Aurik, Ate Snijder</i>	Strength Evaluation and Failure Prediction of Bolted and Adhesive Glass / Steel Joints <i>Ioannis Katsivalis, Ole Thybo Thomsen, Stefanie Feih, Mithila Achintha</i>	Thermal Glass Stress Analysis - Design Considerations <i>Michaela Poláková, Steffen Schäfer, Michael Elstner</i>	Residual Load-bearing Capacity of Spannglass-Beams - Effect of Post-tensioned Reinforcement <i>Michael Engelmann, Bernhard Weller</i>
16:20 – 16:40	All-glass entrance pavillion for an office building in Madrid <i>Carles Teixidor, Jordi Torres, Lúcia Estupiñá</i>	Dimensioning of Elastic Adhesives Joints with Complex Geometries? A Systematic Approach beyond ETAG 002 <i>Thomas Scherer, Wolfgang Wittwer, Christian Scherer, Ernst Semar</i>	Prediction of Strength for Inhomogeneous - Defective Glass Elements Based on the Bi-modal Weibull Statistical Distribution <i>Alexander Shabetia, Yurii Rodichev, Frederic Veer, Elena Soroka</i>	Hybrid steel-glass cell: cold-twisting and buckling phenomena <i>Laura Galuppi, Pietro Di Biase, Benjamin Schaaf Carl Richter, Benno Hoffmeister, Markus Feldmann, Gianni Royer Carfagni</i>
16:40 – 17:00	Wilsdruff Filter Factory - Example of the application of structural PVB films in the façade area <i>Michael Kothe</i>	Additive Manufacturing of Glass Components - Exploring the potential of glass connections by Fused Deposition Modeling <i>Matthias Seel, Robert Akerboom, Ulrich Knaack, Matthias Oechsner, Peter Hof, Jens Schneider</i>	A simplified design method for all-glass balustrades <i>Thomas Spyra, Tobias Herrmann</i>	Experimental investigation into the effects of membrane action for continuous reinforced glass beam systems <i>Kenny Martens, Robby Caspeele, Jan Belis</i>
17:30 – 22:30 Boat Trip & Conference Dinner				

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9:00 – 9:20 Coffee & Tea				
9:20 – 11:00 Parallel Sessions	Laminated Glass & Interlayer Properties Dr. Martina Eliasova	Glass in Facades + IGU Prof. Jurgen Neugebauer	Curved & Bended Glass Dr. Stephen Morse	Projects & Case studies Prof. Rob Nijse
9:20 – 9:40	Laminated glass beams subjected to artificial solar radiation <i>Giovanna Ranocchiai, Fabio Sciurpi, Mario Fagone</i>	Sensitivity Study on Climate Induced Internal Pressure within Cylindrical Curved IGUs <i>Minxi Bao, Sam Gregson</i>	The Effects of Cold Warping on Glass Stiffness <i>Austin Bensend</i>	Fully Glazed Façade Conception for a Villa with special and Big Size Glass Panels <i>Raul Corrales</i>
9:40 – 10:00	Explicit Enriched Plate Model for Laminated Glass <i>claude Boutin, Kevin Viverge, Frederique Sallet</i>	A linear formulation for the ULS design of glass elements under combined loads - Application to IGUs <i>Chiara Bedon, Claudio Amadio</i>	Thermally Curved Glass - Research and Standardisation of the Four-Point Bending Test <i>Paulina Bukieda, Michael Engelmann, Bernhard Weller, Michael Elstner</i>	Interlocking glass spiral as building structure of the watch museum "La Maison des Fondateurs" <i>Josua Villiger, Philippe Willareth, Florian Doebbel, Viviana Nardini</i>
10:00 – 10:20	Combining solar control technologies for optimal performance <i>Wim Stevels, Matthias Haller</i>	Movable Thin Glass Elements in Façades <i>Jürgen Neugebauer, Markus Wallner-Novak, Tim Lehner, Christian Wrulich, Marco Baumgartner</i>	Ahead of the Curve: Innovative Cold Bent & Insulated Glass Entry Wall <i>Terry McDonnell, Connor Bruns, Oliver Lahr, Patrice Couret</i>	Glass at the Intersection of Art and Engineering <i>David Bott</i>
10:20 – 10:40	Experimental characterization and finite element modelling of strain-rate dependent hyperelastic properties of PVB interlayers <i>Joren Pelfrene, Sam Van Dam, Siebe Spronk, Wim Van Paepegem</i>	Spot Landing: Determining the Light and Solar Properties of Fritted and Coated Glass <i>Helen Rose Wilson, Michael Elstner</i>	Mistral Tower: Value of System Design, Manufacturing and Installation in Cold Bent SSG Units <i>Viviana Nardini, Jonas Hilcken</i>	Zaryade Park, Glass Grid Shell Roof <i>Gennady Vasilchenko-Malishev, Jack Hawker, Stanislav Chesnokov</i>
10:40 – 11:00	Experimental investigation on the impact resistance of laminated glass with various glass make-ups <i>Xinger Wang, Jian Yang</i>	Cast Glass Components out of Recycled Glass: Potential and Limitations of Upgrading Waste to Load-bearing Structures <i>Telesilla Bristogianni, Faidra Oikonomopoulou, Clarissa Justino de Lima, Fred A. Veer, Rob Nijse</i>	Flexible Transparency - a study on adaptive thin glass façade panels <i>Rafael Ribeiro Silveira, Christian Louter, Tillmann Klein</i>	Landscape, resolution laser treated glass installation at Grundbuchamt Ravensburg, Germany 2017 <i>Angelika Weingardt</i>
11:00 – 11:20 Coffee & Tea				
11:20 – 12:40 Parallel Sessions	Strength & Stability Dr. Fred Veer	Joints & Fixings & Adhesives Prof. Jan Belis	Hybrid & Composite Glass Components Dr. Christian Louter	Numerical Modeling & Experimental Validation Dr. Jens Henrik Nielsen
11:20 – 11:40	Experimental investigation into the fragment size of tempered glass <i>Navid Pourmoghadam, Jens Schneider</i>	Permanent hydrothermal exposure on load-bearing adhesives in glass constructions <i>Elisabeth Aßmus, Christian Popp, Bernhard Weller</i>	Structural Considerations on Timber-Glass Composites at Fire Scenarios <i>Marcin Kozłowski, Peter Lenk, Michael Dorn, Dániel Honfi, Johan Sjöström</i>	Experimental Analysis on the Glass-Interlayer System in Glass Masonry Arches <i>Mike Aurik, Ate Snijder, Chris Noteboom, Rob Nijse, Christian Louter</i>
11:40 – 12:00	Development of a Mobile Device for the Evaluation of the current in situ stress Condition in Glass <i>Benjamin Schaaf, Björn Abeln, Carl Richter, Markus Feldmann, Marcus Glaser, Jörg Hildebrand, Jean Pierre Bergmann</i>	Dimensioning silicone joints used in bomb blast resistant facade systems <i>Pierre Descamps, Sebastien Durbecq, Valerie Hayez, Mahmoud Chabih, Georgette VanWassenhove</i>	A numerical and experimental approach to cold-bent timber-glass composite elements <i>Felix Nicklisch, Tim Greulich, Bernhard Weller</i>	Thermo-mechanical investigation of novel GFRP-glass sandwich facade components <i>Chiara Bedon, Carlos Pascual Agullo, Alessandra Luna-Navarro, Mauro Overend, Fabio Favoino</i>
12:00 – 12:20	Structural Strength of Laminated Glass <i>Yurii Rodichev, Frederic Veer, Vladimir Strizhalo, Elena Soroka, Alexander Shabetia</i>	On Cavitation in Transparent Structural Silicone Adhesive - TSSA <i>Michael Drass, Vladimir A. Kolupaev, Jens Schneider, Stefan Kolling</i>	Alternative Approaches for the Numerical Simulation of Glass Structural Beams Reinforced with GFRP Laminates <i>Jorge Rocha, Eduardo Pereira, José Sena-Cruz</i>	Optimizing Glass Design: The Role of Computational Wind Engineering & Advanced Numerical Analysis <i>Timothy Brewer, Eric Sammarco</i>
12:20 – 12:40	A re-evaluation of the physiochemistry of Glass on the basis of recent developments and its relevance to the glass industry <i>Frederic Veer, Telesilla Bristogianni, Clarissa Justino de Lima</i>	Silicone Joint Dimensioning Calculation Methods <i>Pierre Descamps, Valerie Hayez</i>	Design and experimental testing of all glass sandwich panels. An experimental and numerical study for the glass floors of the Acropolis museum. <i>Dimitrios Vitalis, Fred Veer, Faidra Oikonomopoulou</i>	Component Tests of Vitralock Installation System <i>Zdeněk Sokol, Martina Eliášová, Stanislav Polata</i>
12:40 – 14:00 Lunch				
14:00 – 15:00 Parallel Sessions	Laminated Glass & Interlayer Properties Prof. Jens Schneider	Joints & Fixings & Adhesives Dr. Mauro Overend	Architectural Design, Geometries & Lighting Dr. Paulo Cruz	Structural Glass Design Philosophy & Structural Safety Dr. Freek Bos
14:00 – 14:20	Material properties of polymeric interlayers under dynamic loading with respect to the temperature <i>Tomáš Hána, Miroslav Vokáč, Klára Machalická, Martina Eliášová</i>	Mechanical Behaviour of Transparent Structural Silicone Adhesive (TSSA) Steel-to-Glass Laminated Connections Under Monotonic and Cyclic Loading <i>Anna Ioannidou-Kati, Manuel Santarsiero, Peter de Vries, Sofia Teixeira, De Freitas, Rob Nijse, Christian Louter</i>	Kinematics of folded glass plate structures: Study of a deployable roof system <i>Alkistis Krousti, Ate Snijder, Peter Eigenraam, Michela Turrin</i>	Energy-based approach for dissipative structural glass system in seismic regions <i>Manuel Santarsiero, Kosmas Moupagitsoglou</i>
14:20 – 14:40	Investigations on the thermorheologically complex material behaviour of the laminated safety glass interlayer Ethylene-Vinyl-Acetate <i>Miriam Schuster, Michael Kraus, Jens Schneider, Geralt Siebert</i>	Investigations on Linear Silicone Joints for Glass-Metal Elements with Composite Structural Behavior <i>Vlad Alexandru Silvestru, Oliver Enghardt, Jens Schneider</i>	Glowing glass <i>Shawn Ives, Stefan Reich, Christian Pfützte</i>	Hybrid Glass Structures - Design Philosophy and Generalized Checking Procedures <i>Lenk Peter, Noteboom Chris, Arkinstall Mark</i>
14:40 – 15:00	Effect of Interlayer Mechanical Properties on Quasi-static and Free Vibration Response of Laminated Glass <i>Alena Zemanová, Tomáš Janda, Jan Zeman, Jaroslav Schmidt, Michal Šejnoha</i>	Mechanical properties of continuous adhesive glass-steel connections under monotonic and cyclic loading <i>Bert Van Lancker, Wouter De Corte, Jan Belis</i>	A novel, demountable structural glass system out of dry-assembly, interlocking cast glass components <i>Faidra Oikonomopoulou, Telesilla Bristogianni, Lida Barou, Erwin Jacobs, Giulia Frigo, Frederic A. Veer, Rob Nijse</i>	Are laminated security glazing standards still adapted to the current demand? <i>Louis Dellieu, Perrine Leybros, Julien Jeanfils</i>
15:00 – 15:20 Coffee & Tea				
15:20 – 17:00 Plenary Closing Session	Keynote 2: Michael Ludvik, M. Ludvik Engineering / Keynote 3: Christian Grünler, Daimler AG / Closing words			
15:00 – 15:20	Farewell Drinks			

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