

Challenging Glass 8

23 & 24 June 2022

Ghent University, Ghent, Belgium

Location: Het Pand, Onderbergen 1, 9000 Gent, Belgium



Organising partners



Conference Proceedings & Special Issue

All Challenging Glass papers have been peer reviewed by our scientific committee and are published Open Access in Volume 8 of the online Challenging Glass Conference Proceedings. A selection of papers has been subjected to a separate double-blind peer-review process and is published in the special Challenging Glass issue of the Glass Structures & Engineering journal (Springer).



Supporting Partners

CertBond - COST Action CA18120

“Reliable roadmap for certification of bonded primary structures”



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Welcome!

We gradually emerge from two difficult years of the covid-19 pandemic raging through the world in waves of constantly changing intensities. The associated uncertainties really put the ‘challenging’ into Challenging Glass this time. Still, some of our peers are not able to join us in Ghent, and they will be sorely missed. Nevertheless, we are happy to be able to return this year to the ‘real thing’: a live event which allows the international glass community to finally meet again in person. An excellent opportunity, especially within the UN-declared International Year of Glass 2022. We look forward to reconnect with international colleagues and old friends, but we also want to extend a particularly warm welcome to new and young peers who perhaps have not yet had many opportunities to build their professional network.

Dedicated as we are to the high standards of the Challenging Glass Conferences, we are once again proud to present a very promising programme. No less than five keynote speakers will share their original insights on glass with us: Stéphanie Le Rhun on glass and circularity; Julian Jones on glass and bio-based materials; Markus Feldmann on the oncoming Eurocode on the Design of Glass Structures; and finally Robert Capel and Iris Rombouts on their latest glass projects. In addition, over 70 papers will be presented by experts from around the world, showcasing the latest findings in academia, practice and industry. Moreover, a special session on adhesive bonding in glass construction is organised by the European COST Action CertBond CA18120 - Reliable roadmap for certification of bonded primary structures.

All papers have been peer reviewed by our scientific committee and are published Open Access in Volume 8 of the online Challenging Glass Conference Proceedings. A selection of papers has been subjected to a separate double-blind peer-review process and is published in the special Challenging Glass issue of the Glass Structures & Engineering journal (Springer).

Many thanks go to our sponsors, Scientific Committee members, authors and attendees to make it happen.

Let’s enjoy together!

Jan Belis, Freek Bos & Christian Louter

Conference Organisers

June 2022

Conference Organisers

Prof. Jan Belis	Ghent University	BE
Dr Freek Bos	Eindhoven University of Technology	NL
Prof. Christian Louter	Delft University of Technology	NL

Scientific Committee

Scientific Committee Chairs:

Prof. Jan Belis	Ghent University	BE
Dr Freek Bos	Eindhoven University of Technology	NL
Prof. Christian Louter	Delft University of Technology	NL

Scientific Committee Members:

Prof. Suwen Chen	Tongji University	CN
Prof. Paulo Cruz	University of Minho	PT
Dr Martina Eliasova	Czech Technical University in Prague	CZ
Dr Stephen Morse	Michigan Technological University	US
Prof. Jürgen Neugebauer	University of Applied Sciences, FH Joanneum	AT
Dr Jens Henrik Nielsen	Technical University of Denmark	DK
Prof. Mauro Overend	Delft University of Technology	NL
Prof. Jens Schneider	Technische Universität Darmstadt	DE
Dr Frederic Veer	Delft University of Technology	NL

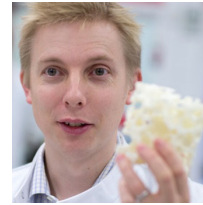
Local Organiser Support

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Sahand Sartipi	Ghent University	BE
Evelien Symoens	Ghent University	BE
Yilin Wang	Ghent University	BE
Danie Wium	Ghent University	BE

Keynote Speakers



Stéphanie Le Rhun
Eckersley O'Callaghan
Paris, France



Prof. Julian Jones
Imperial College
London, United Kingdom



Prof. Markus Feldmann
RWTH Aachen
Aachen, Germany



Robert Capel
Octatube
Delft, The Netherlands



Iris Rombouts
Octatube
Delft, The Netherlands

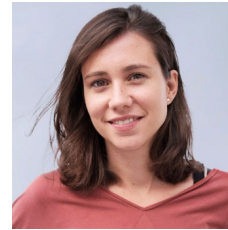
Program Overview Thursday – June 23rd

08:00 – 09:00	Registration & Coffee		
Plenary session	Chairs: Prof. Jan Belis, Dr Freek Bos, Prof. Christian Louter		
09:00 – 09:15	Opening words by Jan Belis, Freek Bos, Christian Louter		
09:15 – 10:00	Keynote presentation: Stéphany Le Rhun , Eckersley O’Callaghan		
10:00 – 10:45	Keynote presentation: Prof. Julian Jones , Imperial College London		
10:45 – 11:00	Group photo		
11:00 – 11:40	Coffee break		
Parallel sessions	Refter	Priorzaal	Zaal Rector Vermeylen
11:40 – 13:00	PROJECTS & CASE-STUDIES	NUMERICAL MODELLING & EXPERIMENTAL VALIDATION	CERTBOND COST ACTION CA18120
13:00 – 14:20	Lunch		
Parallel sessions	Refter	Priorzaal	Zaal Rector Vermeylen
14:20 – 15:40	HYBRID & COMPOSITE GLASS COMPONENTS	STRENGTH & STABILITY	CERTBOND COST ACTION CA18120
15:40 – 16:20	Coffee break		
Parallel sessions	Refter	Priorzaal	Zaal Rector Vermeylen
16:20 – 17:20	ARCHITECTURAL DESIGN & GEOMETRIES	DESIGN PHILOSOPHY & STRUCTURAL SAFETY	LAMINATED GLASS & INTERLAYER PROPERTIES
19:00 – 22:30	Conference dinner* Location: Monasterium Poortackere, Oude Houtlei 56, Ghent. <i>* Separate registration for the conference dinner is required.</i>		

Program Overview Friday – June 24th

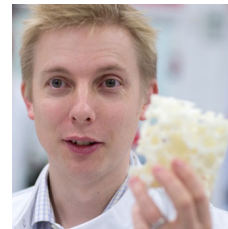
08:30 – 09:00	Registration & Coffee		
Parallel sessions	Refter	Priorzaal	Zaal Rector Vermeylen
09:00 – 10:20	THERMAL, ACOUSTIC & LIGHTING ASPECTS	THIN GLASS	PROJECTS & CASE-STUDIES
10:20 – 11:00	Coffee break		
Parallel sessions	Refter	Priorzaal	Zaal Rector Vermeylen
11:00 – 12:20	GLASS IN FACADES	NUMERICAL MODELLING & EXPERIMENTAL VALIDATION	LAMINATED GLASS & INTERLAYER PROPERTIES
12:20 – 13:40	Lunch		
Parallel sessions	Refter	Priorzaal	Zaal Rector Vermeylen
13:40 – 14:40	INSULATING GLASS UNITS	DESIGN PHILOSOPHY & STRUCTURAL SAFETY	JOINTS, FIXINGS & ADHESIVES
14:40 – 15:00	Coffee break		
Plenary session	Chairs: Prof. Jan Belis, Dr Freek Bos, Prof. Christian Louter		
15:00 – 15:45	Keynote presentation Prof. Markus Feldmann , RWTH Aachen		
15:45 – 16:30	Keynote presentation Robert Capel & Iris Rombouts , Octatube		
16:30 – 16:45	Closing words by Jan Belis, Freek Bos, Christian Louter		
16:45 – 17:30	Drinks		
21:00	Social gathering in city centre (at own expenses) Location: Waterhuis aan de Bierkant, Schuddevisstraatje, Gent		

DAY 1	Refter – Ground Floor
	<p>KEYNOTE PRESENTATIONS</p> <p><i>Chairs: Belis, Bos & Louter</i></p>
09:00 – 09:15	<p>Welcoming words</p> <p>Jan Belis, Freek Bos, Christian Louter <i>UGent, TU Eindhoven, TU Delft</i></p>
09:15 – 10:00	<p>Engineering Transparency for a Sustainable Future</p> <p>Stéphany Le Rhun <i>Eckersley O'Callaghan</i></p>
10:00 – 10:45	<p>Glass for Regenerative Medicine</p> <p>Prof. Julian Jones <i>Imperial College London</i></p>
10:45 – 11:00	<p>Group Photo</p>
11:00 – 11:40	<p>Coffee Break</p>



Stéphanie Le Rhun
Eckersley O'Callaghan
Paris, France

Stéphanie joined the London office of Eckersley O'Callaghan in 2014 to work in the Facade Group, before moving to the Paris office in 2017. At Eckersley O'Callaghan, she has been involved in the design of facades for prestigious projects, while contributing to the development of sustainability tools and studies. She has deepened strategies regarding low carbon solutions, circular economy, bio-based materials and resilience. Stéphanie Le Rhun has been appointed Global Sustainability Lead end of 2021. She works closely with structures, facades and glass experts across Eckersley O'Callaghan's 10 offices around the globe to consolidate and build upon the company's pioneering work in sustainable design, and develop R&D projects with fabricators, contractors and other consultants.



Prof. Julian Jones
Imperial College
London, United Kingdom

Julian Jones is Professor of Biomaterials at Imperial College in London. Prior to this he held a Royal Academy of Engineering/ EPSRC Research Fellowship (awarded 2004), having completed his PhD at Imperial College in 2002 in the department of Materials. He joined the latter having obtained an MEng in Metallurgy and the Science of Materials from Oxford in 1999. His research interests are in biomaterials for regenerative medicine, particularly Bioglass related materials. His team's work on inorganic/ organic hybrids has produced tough and flexible bioactive scaffolds suitable for tissue engineering applications.

DAY 1	Refter – Ground Floor	Priorzaal – 1 st Floor	Zaal Rector Vermeylen – 2 nd Floor
	<p>PROJECTS & CASE-STUDIES</p>	<p>NUMERICAL MODELLING & EXPERIMENTAL VALIDATION</p>	<p>CERTBOND COST ACTION CA18120</p>
	<p><i>Chair: Francesc Arbós</i></p>	<p><i>Chair: Gregor Schwind</i></p>	<p><i>Chair: Dr Ioannis Katsivalis</i></p>
<p>11:40 – 12:00</p>	<p>Apple Marina Bay Sands: Utmost Transparency <i>Graham Coult, Alexandros Cannas, Sam Gregson, Lorenzo Santelli</i></p>	<p>Experimental and Numerical Investigations on the Finite Strain Viscoelasticity of Standard PVB <i>Alexander Pauli, Marcus Illguth, Frank Wellershoff, Geralt Siebert, Michael A. Kraus</i></p>	<p>CertBond - COST Action CA18120 - Reliable roadmap for certification of bonded primary structures <i>Chiara Bedon, Sofia Teixeira de Freitas</i> <i>Presented by Ioannis Katsivalis</i></p>
<p>12:00 – 12:20</p>	<p>The Story Behind Sky Pool <i>Graham Coult, Sam Gregson</i></p>	<p>Numerical Study on Failure of Laminated Glass Subjected to Low-Velocity Impact <i>Petr Hála, Alena Zemanová, Jan Zeman, Michal Šejnoha</i></p>	<p>Adhesive Solutions for Cast Glass Assemblies: Ground Rules Emerging from Built Case Studies on Adhesive Selection and Experimental Validation <i>Faidra Oikonomopoulou, Telesilla Bristogianni</i></p>
<p>12:20 – 12:40</p>	<p>The New Slumped Glass Facade at Tiffany's Flagship Store <i>Chenyu Pu, Jason Wang, David Bott, Daniel Vos</i></p>	<p>Joint Research Project (in progress): Draft Standard for Determining the Thermal Stress of Glass and Glass-Glass PV Modules (BIPV) in the Construction Industry <i>Frank Ensslen, Gregor Schwind, et al.</i></p>	<p>Comparison of Behaviour of Laminated Banister Panels with Embedded Connections <i>Michaela Zdražilová, Zdeněk Sokol, Martina Eliášová</i></p>
<p>12:40 – 13:00</p>	<p>Planning Phases of Glass Projects <i>Peter Lenk</i> <i>Presented by Toby Clark</i></p>	<p>Numerical Calculations of Thermally Induced Stresses in Insulating Glass Units <i>Gregor Schwind, Franz Paschke, Jens Schneider</i></p>	<p>Examination of the Load-Bearing Behavior of a Bonded Edge Seal for Fluid-Filled Insulating Glass Units <i>Alina Joachim, Felix Nicklisch, Alexander Freund, Bernhard Weller</i></p>
<p>13:00 – 14:20</p>	<p>Lunch</p>	<p>Lunch</p>	<p>Lunch</p>

DAY 1	Refter – Ground Floor	Priorzaal – 1 st Floor	Zaal Rector Vermeylen – 2 nd Floor
	<p>HYBRID & COMPOSITE GLASS COMPONENTS</p>	<p>STRENGTH & STABILITY</p>	<p>CERTBOND COST ACTION CA18120</p>
	<p><i>Chair: Dr Vlad-Alexandru Silvestru</i></p>	<p><i>Chair: Dr Fred Veer</i></p>	<p><i>Chair: Dr Felix Nicklisch</i></p>
<p>14:20 – 14:40</p>	<p>Robotic Large-Scale Additive Manufacturing of Thermoplastics for Thin-Glass Composite Elements <i>Daniel Pfarr, Silke Tasche, Christian Louter</i></p>	<p>Effects of Composition on the Durability and Weathering of Flat Glass <i>Clarissa Justino de Lima, Brandon Aldinger, Peter de Haan, Telesilla Bristogianni, Fred Veer</i></p>	<p>Influence of Elevated Temperature on the Mechanical Properties of Transparent Adhesive Glass-Glass Joints <i>Markéta Zikmundová, Martina Eliášová</i></p>
<p>14:40 – 15:00</p>	<p>Application of an Iron-Based Shape Memory Alloy for Post-Tensioning Glass Elements <i>Vlad-Alexandru Silvestru, Zhikang Deng, Julien Michels, Lingzhen Li, Elyas Ghafoori, Andreas Taras</i></p>	<p>Experimental Investigation into the Effect of Elevated Temperatures on the Fracture Strength of Soda-Lime-Silica Glass <i>Evelien Symoens, Ruben Van Coile, Jan Belis</i></p>	<p>Integrated Connections for Glass-Plastic-Composite Panels: An Experimental Study under Tensile Loading at +23, +40 and +60 °C and Different Glass Build-ups <i>Julian Hänig, Bernhard Weller</i></p>
<p>15:00 – 15:20</p>	<p>Curtain of Glass – Textured by Stone <i>Michael Engelmann, Klaus Reuschle, Salvatore Muscatello, Thomas Sperandio</i></p>	<p>Impact of Cutting Process Parameters on the Mechanical Quality of Processed Glass Edges <i>Paulina Bukieda, Bernhard Weller</i></p>	<p>Prediction of Moisture Diffusion and Failure in Glass/Steel Adhesive Joints <i>Ioannis Katsivalis, Stefanie Feih</i></p>
<p>15:20 – 15:40</p>	<p>Design, Engineering and Experimental Testing of Tubular Glass Columns <i>Rozemarijn Veenstra, Chris Noteboom, Faidra Oikonomopoulou, Mauro Overend</i></p>	<p>Edge Strength of Annealed Float Glass: Influence and Optimization of Cutting Process Parameters <i>Matthias Seel, Steffen Müller-Braun, Peter Hof, Jens Schneider, Matthias Oechsner</i></p>	<p>Pre- and Post-Failure Experimental Bending Analysis of Glass Elements Coated by Aged Anti-Shatter Safety Films <i>Silvana Mattei, Luca Cozzarini, Chiara Bedon</i></p>
<p>15:40 – 16:20</p>	<p>Coffee break</p>	<p>Coffee break</p>	<p>Coffee break</p>

DAY 1	Refter – Ground Floor
	ARCHITECTURAL DESIGN & GEOMETRIES <i>Chair: Dr Freek Bos</i>
16:20 – 16:40	Topologically Optimized Cast Glass: A New Design Approach for Loadbearing Monolithic Glass Components of Reduced Annealing Time <i>Wilfried Damen, Faidra Oikonomopoulou, Telesilla Bristogianni, Michela Turrin</i>
16:40 – 17:00	The Chronology of Historical Glass Constructions <i>Franziska Rehde, Maria Heinrich, Alexandra Schmölder, Katharina Lohr, Christian Louter</i>
17:00 – 17:20	Glass Façade and Structure Movements <i>Raul Corrales</i>
-	End of parallel sessions Day 1
19:00 – 22:30	Conference dinner registration required

Priorzaal – 1 st Floor	Zaal Rector Vermeylen – 2 nd Floor
DESIGN PHILOSOPHY & STRUCTURAL SAFETY <i>Chair: Dr Jagoda Cupać</i>	LAMINATED GLASS & INTERLAYER PROPERTIES <i>Chair: Dr Wim Stevels</i>
Glass Up-Casting: A Novel Recycling Approach for Transforming “as-is” Glass Waste Back to Glass Products <i>Telesilla Bristogianni, Faidra Oikonomopoulou</i>	The Conjugate Beam Effective Thickness Method <i>Laura Galuppi, Adam J. Nizich, Andrea M. La Greca</i>
MICA (Monitoring Internal Comfort Application): A new BIM tool processing IEQ data input for building management and energetic optimizations <i>Luca Guidi et al.</i>	Development and Behavior of a Thin Fitting Connection for Lamination with Structural PVB <i>Thiemo Fildhuth, Pascal Joos, Thomas Wüest, Matthias Haller, Wim Stevels</i>
Exploratory Study on the Load-Bearing Behaviour of Laminated Glass Beams Exposed to Fire <i>Maximilian Möckel, Katharina Lohr, Christian Louter</i>	Design Base for a Frameless Glass Structure Using Structural PVB Interlayers and Stainless-Steel Fittings <i>Wim Stevels, Thiemo Fildhuth, Thomas Wüest, Matthias Haller, Roman Schieber</i>
End of parallel sessions Day 1	End of parallel sessions Day 1
Conference dinner registration required	Conference dinner registration required

DAY 2	Refter – Ground Floor
	<p>THERMAL, ACOUSTIC & LIGHTING ASPECTS</p> <p><i>Chair: Francis Serruys</i></p>
09:00 – 09:20	<p>Insights into Emissivity Changes During Tempering Processes and Potential for Utilization</p> <p><i>Jorma Vitkala, Marcus Klein, Daniel Schmidt, Senthil Vinodh</i></p>
09:20 – 09:40	<p>Coatings Sensitivity to the Quench Marks</p> <p><i>Davide Maccariello, Romain Hivet</i></p>
09:40 – 10:00	<p>Color Depth</p> <p><i>Catie Newell, Ryan Craney</i></p>
10:00 – 10:20	<p>Shaping Glass for Acoustic Performance</p> <p><i>Catie Newell, Zackery Belanger, Wes McGee</i></p>
10:20 – 11:00	Coffee break

Priorzaal – 1 st Floor	Zaal Rector Vermeylen – 2 nd Floor
<p>THIN GLASS</p> <p><i>Chair: Prof. Jürgen Neugebauer</i></p>	<p>PROJECTS & CASE-STUDIES</p> <p><i>Chair: Dr Kenny Martens</i></p>
<p>Thin Glass in Architecture - Possible Applications and Challenges</p> <p><i>Özhan Topcu, Vladimir Marinov</i></p>	<p>Extreme Cold-Bending: Geometric Considerations and Shape Prediction with Machine Learning</p> <p><i>Keyan Rahimzadeh, Evan Levelle, John Douglas</i></p>
<p>The Clamp Bender: A New Testing Equipment for Thin Glass</p> <p><i>Marco Zaccaria, Timon Peters, Jan Ebert, Nerio Lucca, Jens Schneider, Christian Louter</i></p>	<p>The Jardin d’Hiver in Paris, a Structural Glass Case Study</p> <p><i>Jorge Hidalgo, Matthieu Thésé, Matt King, Victor Racodon</i></p>
<p>Experimental Strength Characterisation of Thin Chemically Pre-Stressed Glass Based on Laser-Induced Flaws</p> <p><i>Shahryar Nategh, Marco Zaccaria, Jeroen Missinne, Jan Belis</i></p>	<p>Funicular Glass Bridge Prototype: Design Optimization, Fabrication, and Assembly Challenges</p> <p><i>Yao Lu et al.</i></p>
<p>Hail Resistance of Greenhouse Coverings</p> <p><i>Jürgen Neugebauer, Georg P. Kneringer</i></p>	<p>Design of a Curved Duplex Façade for a 67 m High Residential Tower at the Belgian Coast</p> <p><i>Bert Van Lancker, Kenny Martens</i></p>
Coffee break	Coffee break

DAY 2	Refter – Ground Floor
	GLASS IN FACADES <i>Chair: Dr Guido Lori</i>
11:00 – 11:20	Slim Skins: Towards a New Glazed Façade System <i>Barbara Foolen de Oliveira, Arjen Veenstra, Maria Meizoso Aguilar, Mauro Overend</i>
11:20 – 11:40	Validation of a Simple Numerical Tool for Superimposition of Climatic Load and Wind Load in Closed Cavity Facades. Importance of a Coupled PE-Thermal-Mechanical Model <i>Guido Lori et al.</i>
11:40 – 12:00	Experimental and Numerical Assessment of Permeability Functions in Closed Cavity Facades <i>Guido Lori et al.</i>
12:00 – 12:20	Experimental Validation of a Numerical model for Closed Cavity Façade Glass Structural Calculation under Dynamic Cavity Temperature, Dry Air Flow and Wind Loads Effects <i>Guido Lori et al.</i>
12:20 – 13:40	Lunch

Priorzaal – 1 st Floor	Zaal Rector Vermeylen – 2 nd Floor
NUMERICAL MODELLING & EXPERIMENTAL VALIDATION <i>Chair: Prof. Christian Louter</i>	LAMINATED GLASS & INTERLAYER PROPERTIES <i>Chair: Björn Sandén</i>
Evaluation Methods for Surface Compression Stress Measurements with Unknown Principle Stress Directions <i>Kerstin Thiele, Steffen Müller-Braun, Jens Schneider</i>	Determination of the Linear Viscoelastic Material Behaviour of Interlayers with Semi-Crystalline Structures <i>Miriam Schuster</i>
Numerical Study on Post-Fracture Behavior of a Two- Sided Reinforced Laminated Glass Beam-Column Connection Prototype <i>Mirko Pejatovic, Robby Caspeele, Jan Belis</i>	Determination and Evaluation of the Interlaminar Shear Modulus of Polyvinyl Butyral with Fibre Optic Sensors <i>Thorsten Weimar, Christian Hammer</i>
Experimental Investigation of a Transparent Interface Material for Glass Compression Members <i>Joseph Robert Yost et al.</i>	UV Transmission in Laminated Glass: Effects on Plant Growth and Development <i>Esther Meinen, Björn Sandén, Anja Dieleman, Silke Hemming</i>
Pilot Experiments for Multi-Criteria Human Comfort-Driven Structural Glass Design Assessment <i>Chiara Bedon Presented by Silvana Mattei</i>	Reducing Carbon Footprint of Laminated Glass Through the use of Structural Interlayers <i>Björn Sandén, Jorge Hidalgo</i>
Lunch	Lunch

DAY 2	Refter – Ground Floor	Priorzaal – 1 st Floor	Zaal Rector Vermeylen – 2 nd Floor
	<p>INSULATING GLASS UNITS</p>	<p>DESIGN PHILOSOPHY & STRUCTURAL SAFETY</p>	<p>JOINTS, FIXINGS & ADHESIVES</p>
	<p><i>Chair: Prof. Mauro Overend</i></p>	<p><i>Chair: Dr Michael Engelmann</i></p>	<p><i>Chair: Dr Valérie Hayez</i></p>
<p>13:40 – 14:00</p>	<p>Numerical Analysis of TGU Windows Under Blast – GLASS-SHARD Outlook <i>Chiara Bedon, Martin Larcher, Alessia Bez, Claudio Amadio</i> <i>Presented by Guido Lori</i></p>	<p>IN BETWEEN: An Interlayer Material Study for Interlocking Cast Glass Blocks <i>Maria Dimas, Faidra Oikonomopoulou, Marcel Bilow</i></p>	<p>Performance of Glass to Iron-based Shape Memory Alloy Adhesive Shear Joints with Different Geometry Zhikang Deng, Vlad-Alexandru Silvestru, Julien Michels, Lingzhen Li, Elyas Ghafoori, Andreas Taras</p>
<p>14:00 – 14:20</p>	<p>The Performance of Vacuum Insulating Glazing Units Subjected to a Soft Body Impact <i>Isabell Schulz, Cenk Kocer, Franz Paschke, Jens Schneider</i></p>	<p>Considerations for the Integration of Glass in Superyacht Structures <i>Danie Wium, Evert Lataire, Jan Belis</i></p>	<p>Silicone Structural Glazing Under Blast Loading <i>Valérie Hayez, Jon Kimberlain, Jie Feng, Sigurd Sitte, Mark Mirgon</i></p>
<p>14:20 – 14:40</p>	<p>Investigations on the Cold Bending Behaviour of a Double Glazing Unit with a Rigid Edge-Spacer Frame <i>Tim van Driel, Chris Noteboom, Mauro Overend</i></p>	<p>How to Exploit the Glass Mass for Damping a Building? <i>Michael Engelmann, Wulf Wulff, Thomas Lorenz, Simon Frey, Laurenz Wernicke, Yangwen Zhang, Thomas Schauer, Achim Bleicher</i></p>	<p>High-Temperature Behavior of Silicone Sealants <i>Valérie Hayez, Georg Scheutz</i></p>
<p>14:40 – 15:00</p>	<p>Coffee break</p>	<p>Coffee break</p>	<p>Coffee break</p>

DAY 2	Refter – Ground Floor
	KEYNOTE PRESENTATIONS
	<i>Chairs: Belis, Bos & Louter</i>
15:00 – 15:45	<p>On the way to a Eurocode: The new CEN/TS 19100 - Design of Glass Structures</p> <p style="text-align: center;">Prof. Markus Feldmann <i>RWTH Aachen</i></p>
15:45 – 16:30	<p>Design & Build challenges in load bearing glass projects</p> <p style="text-align: center;">Robert Capel & Iris Rombouts <i>Octatube</i></p>
16:30 – 16:45	<p style="text-align: center;">Closing words</p> <p style="text-align: center;">Jan Belis, Freek Bos, Christian Louter <i>UGent, TU Eindhoven, TU Delft</i></p>
16:45 – 17:30	Drinks
21:00	<p>Social gathering (at own expenses)</p> <p style="text-align: center;">Waterhuis aan de Bierkant Schuddevisstraatje, Gent</p>



Prof. Markus Feldmann

RWTH Aachen
Aachen, Germany

Markus Feldmann is Professor and Chair at the Institute of Steel and Construction at RWTH Aachen. He is also the chair of the Eurocode CEN/TC 250/SC 11 committee on the Design of Glass Structures.



Robert Capel

Octatube
Delft, The Netherlands

In the role of sales lead, Robert Capel is involved in many early stage design work at Octatube. During his 15 years of professional experience he grew his design & build enthusiasm and enjoys to dissect engineering challenges to build special envelopes and structures.



Iris Rombouts

Octatube
Delft, The Netherlands

Iris Rombouts has 7 years of experience as a structural engineer and projectmanager at Octatube. She's passionate about complex glass and steel structures and always in for new design challenges. Most recent projects she has worked on are the C30 gridshell roof over the Shell monumental courtyard, the Tropical fruit warehouse standing façade with hanging glass fins and the spectacular fully glued façade of PC Hooftstraat.

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