

# CHALLENGING GLASS 2 – preliminary program

## THURSDAY MAY 20<sup>th</sup> 2010

09.00	Registration. Coffee/Tea					
<b>Plenary session; Room 1: Senaatszaal; chairman: Jan Rots</b>						
10.00	<b>Opening, Jan Rots</b>					
10.20	Key-note lecture: <b>Pascal Richet</b>					
11.00	Key-note lecture: <b>James O'Callaghan</b>					
11.40	Coffee/Tea					
	<b>Room 1: Senaatszaal</b> Chairman: Jens Schneider		<b>Room 2: Collegezaal B</b> Chairman: Geralt Siebert		<b>Room 3: Collegezaal D</b> Chairman: Mauro Overend	
12.00 - 12.20	<b>Glass in Facades 1</b>	<i>Morphology systems for databases on projects with curved glass</i> Vollers	<b>Projects and Case Studies 1</b>	<i>Design and build of a warped tramstop roof in Delft</i> Eekhout (pres), Staaks	<b>Strength, Stability and Safety 1</b>	<i>Explicit Finite Element Methodology for Analysis of Architectural Glazing Panels Subject to High-Intensity, Short-Duration Loading</i> Seica, Krynski (pres), Packer
12.20 - 12.40		<i>A New Façade Concept for an Existing Office Building</i> Maniatis (pres: B. Siebert)		<i>TKTS – Tilted Glass Bearing Walls and Glass Roof</i> Ludvik (pres), Smith		<i>The Integrated Approach to Structural Glass Safety Applied to Glass Beams</i> Bos
12.40 - 13.00		<i>Design and Development of an Ultraslim Insulated Glass Façade System</i> van de Rotten, van Gelder, Knaack, Eekhout		<i>Advances in the Use of Structural Glass</i> Marchewka		<i>Design of glass with high short duration wind loads</i> Henriksen (pres), Ole Hansen
Lunch						
14.00 - 14.20	<b>Glass in Facades 1</b>	<i>A new façade concept</i> Moonen, Lichtenberg	<b>Projects and Case Studies 1</b>	<i>All Glass dome in Haarlem</i> Niderehe, Weber, Staaks, Eekhout (pres)	<b>Strength, Stability and Safety 1</b>	<i>Assessment and Management of Strength and Durability of Composite Glass Elements</i> Rodichev
14.20 - 14.40		<i>Modern façade and roof constructions with photovoltaic panels</i> Siebert B.		<i>Structural Glass Observation Boxes (Willis Tower Ledge)</i> McDonnell (pres: Krynski)		<i>The strength of glass, hidden damage</i> Veer (pres), Rodichev
14.40 - 15.00		<i>North, South, East and West: the environmental approach to transparent design</i> Baldassini		<i>Glass façade upper floor, exhibition stand TOYOTA, IAA 2005</i> Kramer		<i>Buckling resistance and buckling curves of pane-like glass columns with monolithic sections of heat strengthened and tempered glass</i> Feldmann, Langosch (pres)
15.00 - 15.20		<i>Structural Glass Fin Façade St. Davids Hall, Cardiff</i> Wurm		<i>Glass bridges and glass walls</i> Wellershoff		<i>Mechanical modelling of in-plane loaded glass panes</i> Cruz (pres), Lebet, Mocibob
Coffe/Tea						
15.40 - 16.00	<b>Arch. Design &amp; Lighting</b>	<i>Cable-stayed glass façades - 15 years of innovation at the cutting edge</i> Sobek, Feirabend (pres), Blandini, Tarazi	<b>Curved &amp; Bonded Glass</b>	<i>Curved Glass – Quality and Application</i> Feldmann, Kasper, Bucak, Illguth, Bues	<b>Laminates and Composite Designs 1</b>	<i>High-Performance Laminated Glass for Structural Efficient Glazing</i> Stelzer
16.00 - 16.20		<i>Constructive, Aesthetical and Psychological Criteria for Glass Roof Design</i> Weller, Reich (pres), Gorniak		<i>Development of a Cylindrical Glass Shell – Integration of Form and Structure in order to Obtain Maximum Transparency</i> Haarhuis (pres), van Herwijnen, Nijse		<i>Structural Transparency</i> Wörner, Stahl, Eckhardt (pres)
16.20 - 16.40		<i>The Development of Chinese Glass Buildings</i> Cui		<i>The ARoS Rainbow Panorama - Curved glass as a load bearing element</i> Greiner		<i>Modelling the Structural Response of Reinforced Glass Beams using a Sequentially Linear Analysis Scheme</i> Louter (pres), van de Graaf, Rots
16.40 - 17.00		<i>Beyond Transparency - an Experimental Approach to New Glass Design Possibilities</i> Puller, Heinz, Frettlöhr, Denonville, Sobek				<i>Experimental Research on Glass-Polycarbonate Beams</i> Weller, Haerth (pres)
17:30 – 18:15	Boat trip to conference buffet					
19:00 – 22:00	Conference Buffet					

# CHALLENGING GLASS 2 – preliminary program

## FRIDAY MAY 21<sup>st</sup> 2010

09.00	Registration. Coffee/Tea					
	<b>Room 1: Senaatszaal</b> Chairman: Fred Veer		<b>Room 2: Collegezaal B</b> Chairman: Paulo Cruz		<b>Room 3: Collegezaal D</b> Chairman: Jan Belis	
10.00 - 10.20	<b>Joints, Fixings and Adhesives 2</b>	<i>Experimental and Numerical Analysis of the Glued Steel-Glass Joint</i> Netusil, Eliasova	<b>Projects and Case Studies</b>	<i>Transparent Cubical Glass Building in Madrid</i> Weber, Niderehe, Eekhout	<b>Laminates and Composite Designs 2</b>	<i>Thermal Stability of Polymeric Interlayer Materials</i> Weller, Kothe M. (pres), Kothe C.
10.20 - 10.40		<i>Analysis of bonded hybrid steel-glass-beams by small scale tests</i> Feldmann, Abeln, Baitinger		<i>Mass Glass Structures</i> Smith		<i>Influence of temperature on post-breakage behaviour of laminated glass beams: experimental approach</i> Delince (pres), Galmart, Matthijs, Callewaert, Belis, van Impe
10.40 - 11.00		<i>Bonded Point-Supports: Understanding Today – Optimizing for the Future</i> Hagl		<i>Design and engineering of a theatre façade in Vlaardingen</i> Staaks, Niderehe, Eekhout		<i>Glass-honeycomb-glass composite panels</i> Teixidor
11.00 - 11.20		<i>Design concept for bolted glass</i> Baitinger, Feldmann		<i>Design of a single span, nine metre long glass bridge</i> Wittenberg, Krynski (pres)		<i>Trabes Vitreae Tensegrity: an Example of Segmental Prestressed Glass Beams</i> Froli, Lani (pres)
	Coffee/Tea					
11.40 - 12.00	<b>Strength, Stability and Safety 2</b>	<i>Elastic Strain Energy Release and its Consequence for Structural Glass Testing and Design</i> Bos	<b>Projects and Case Studies</b>	<i>Designing and building at all Glass Cube for the Raaks project in Haarlem (NL)</i> Nijssse	<b>Laminates and Composite Designs 2</b>	<i>Structural Glass Beams with Embedded Glass Fibre Reinforcement</i> Louter (pres), Leung, Kolstein, Vambersky
12.00 - 12.20		<i>Corrosion effects on soda lime glass</i> Veer, Rodichev		<i>The Mansueto Library – Notes on a glazed steel grid shell from design to construction</i> Sobek, Blandini		<i>Mechanical Stability of Glass-to-Glass PV-Modules</i> Weller, Tautenhahn (pres)
12.20 - 12.40		<i>Fragmentation of Heat Strengthened Glass: Implications for Glass Not Conforming to ASTM C1048</i> Schmidt		<i>The new, cold bent glass roof of the Victoria &amp; Albert Museum, London</i> Niderehe, Weber, Eekhout		<i>Structural behaviour of hybrid steel-glass beams</i> Ungermann, Preckwinkel (pres)
12.40 - 13.00		<i>Effect of asymmetric heat transfer on glass deformations at high temperatures</i> Aronen		<i>All Glass Enclosure with Transparently Bonded Glass Frames</i> Weller, Doebbel, Nicklisch (pres), Prautzsch, Ruecker		<i>Glass Floor Plate Design for Sustainable Operation</i> Sakula
	Lunch					
14.00 - 14.20	<b>Strength, Stability and Safety 2</b>	<i>Fracture Resistance, Surface Defects and Structural Strength of Glass</i> Rodichev, Veer	<b>Projects and Case Studies</b>	<i>A New Glass-Steel Roof for an Auditorium in Cuneo</i> Lani (pres), Galgani, Grazzini	<b>Laminates and Composite Designs 2</b>	<i>Design of a transparent column in glass and steel</i> Roebroek, van Herwijnen, Snijder, Huveners
14.20 - 14.40		<i>Dynamic Properties of the Glass Structures and Components</i> Lenk, Coult		<i>All Transparent Conservation Scheme for the Menokin Ruins</i> Macfarlane, Lowe		<i>Glass-Steel Beams as Structural Member of Facades</i> Weller, Walther, Weimar (pres)
14.40	Coffee/Tea					
	<b>Plenary session; Room 1: Senaatszaal; chairman: Jan Rots</b>					
15.00	Key-note lecture: <b>Marc Simmons</b>					
15.40	Key-note lecture: <b>Werner Sobek</b>					
16.20	<b>Closing words, Ulrich Knaack</b>					
16.35	<b>Acknowledgements, Organizing Committee</b>					
17.00 - 18.30	Drinks					