

ARCHITECTURAL SESSIONS IN GPD 2011

Architect Forum

Chairman: Jens Schneider - TU Darmstadt

Phenomenal Light – Enriching the Public Realm

James Carpenter, James Carpenter Design Associates Inc

Strategies for Stretching the Structural Limits of Glass

Timothy Macfarlane, Dewhurst Macfarlane and Partners

10.30 - 11.15 COFFEE BREAK

Tba

Werner Sobek, Werner Sobek Stuttgart

Interdisciplinary Collaboration in Exterior Enclosure Design

Keith Boswell, SOM

12.15 - 13.45 LUNCH

Beyond Transparency: Glass in Contemporary Architecture

Antti Nousjoki, ALA-A

Glass structures - recent developments and future requirements for glass products

Jens Schneider, TU Darmstadt

Standards & Measurements for Mechanical Strength of Glass

Chairmen: tba

The basics on Glass Walkway Design

Ms. Valerie Block, DuPont

Maximum Principal Stress and Probability of Breakage for Glass in Buildings

Prof. Scott Norville, Texas Tech University

DIN 18008: New design and proof standard for glass constructions in Germany

Mr. Matthias Seel, Universität der Bundeswehr München

History and Update on the Use of ASTM E1300 for Glass Strength

Mr. Jeffery Haberer, Cardinal Glass Ind.

15.15 - 16.00 COFFEE BREAK

A critique of glass design methods and conversion between global glass codes

Dr. I. Calderone, Calderone and Assoc.

On the flaws and strength of polished beam edges

Mr. Marc Vandebroek, Artesis Hogeschool Antwerpen

An Analytical Method for determining Window Glass Strength

Dr. Stephen Morse, Texas Tech University

On the activity of the Russian Standardization Technical Committee TC "Glass"

Dr. A. Chesnokov, Glass Research Inst.

New Products & Applications

Chairman: Norbert Wruk, Pilkington Deutschland AG

Can glass compete with acrylics on large aquaria enclosures?

Mr. Albert V. Majoral, Strain Engineering

Innovative Projects with new building materials

Dr. C. Eckhardt, Evonik Röhm GmbH

Design concept of glass-polycarbonate composite panels

Prof. Bernhard Weller, TU Dresden

Energy Savings by Intelligent Solar Controlled Windows

Mr. Bruno Harald Philipson, VELUX A/S

10.30 - 11.15 COFFEE BREAK

Transparent electro magnetic absorber for electroic toll collection system on high way

Dr. Tetsuya Hiramatsu, AGC Glass Japan/Asia Pacific

New application for media façade including both real LED display in glass and transparent uniform LED lighting.

Mr. Hugues Lefèvre, AGC Glass Europe

Post-applied film to improve the fire resistance of existing glass facades

Mr. Yutaka Misawa, Ove Arup & partners

12.15 - 13.45 LUNCH

100% Silicone based spandrel & decorative coatings

Mr. Tomek Wierzchowski, ICD Performance Coatings

Broad screening of adhesives for glass-metal bonds

Prof. Jan Belis, Ghent University

Novel Connections for Steel-Glass and Glass-Glass Structures

Mr. James Watson, Cambridge University

Hybrid Steel-Glass beams with polymer adhesive

Mr. Michal Netusil, Czech TU in Prague

15.15 - 16.00 COFFEE BREAK

USB UltraSonic Bond – dovetailing flat glass and metal as an alternative to glue, drill & screw

Mr. Wolfgang Friedl, Grenzebach Maschinenbau GmbH

Bent Glass in Four-Point Bending Test

Prof. Bernhard Weller, TU Dresden

Purely structural glass building envelopes

Mr. Kassnel-Henneberg, Seele Sedak

Ceramic Digital Printing - customizing glass facade design

Mr. Bernd Hoffmann, Hoffmann GTD

Architectural Challenges & Solutions

Chairmen: Larry Carbery - Dow Corning & Graham Dodd - Arup Materials Consulting

Considerations for the condensation resistance of fenestration assemblies

Mr. Tracy Rogers, Edgetech IG

Electronically Tintable Glass as an Architectural Enabler

Dr. H. Sanders, SAGE Electrochromics Inc.

Glorious Golden Glass - Manufacturing Processes from Past to Future

Mr. Chris Barry, Pilkington NA Inc

Durability of SG-laminated reinforced glass beams

Mr. Christian Louter, ICOM - EPFL

10.30 - 11.15 COFFEE BREAK

Determination of the adhesion of modern adhesives to historic iron by lap shear tests

Ms. Leen Lauriks, Vrije Universiteit Brussel

Transparent Adhesive Joints for All-Glass Structures

Prof. Bernhard Weller, TU Dresden

Discretization of the free-form surfaces by plane elements derived from tangent planes

Dr. Milena Stavric, TU Graz

12.15 - 13.45 LUNCH

Case Studie: The Icelandic National Concert & Conference Centre

Mr. Steen Elsted Andersen, Henning Larsen Architects

Bending by lamination

Mr. B. Kassnel-Henneberg, Seele Sedak

Case studies in optimization of glass-paneled architectural freeform designs

Dr. Michael Eigensatz, Evolute GmbH

Inextensional theory applied to cold-bent glass built-in stress evaluation

Mr. Raphaël De Vericourt, RFR

15.15 - 16.00 COFFEE BREAK

Structural and Architectural Design of Glass Shells from Double Curved, Cold Bent Glass Laminates

Mr. Thiemo Fildhuth, ITKE - University of Stuttgart

Experience with adhesives in term of structural use of glass in Germany

Mr. Matthias Seel, Universität der Bundeswehr München

Corrugated glass facades

Prof. Rob Nijssse, Technical University Delft

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ARCHITECTURAL SESSIONS IN GPD 2011

Energy Performance in Buildings

Chairmen: W.Wagner - Sika Service AG & P.Cumpelik - AGC Glass Europe

How to be sustainable in façade and glass engineering?

Dr. S. de Gaetano, Thornton Tomasetti

The recast EU Energy Performance of Buildings Directive: Maximising Opportunities for the Glass Industry

Mr. Rick Wilberforce, Glass for Europe

Energy Balance and current status of a European Energy Labeling...

Mr. Bruno Harald Philipson, VELUX A/S

Reflections on Glass: Attributes of Performance and Appearance in a Dynamic Material

Mr. Mic Patterson, Enclos

10.30 - 11.15 COFFEE BREAK

New generation of point fixed glass walls with improved thermal insulation

Pavel Cumpelik, AGC Flat Glass Europe

The Influence of Isolation on the Thermal Performance of Triple Vacuum Glazing

Dr. Yueping Fang, University of Ulster

What differences real Warm-Edge Spacers can make to Insulating Glass

Mr. Christoph Rubel, Edgetech Europe GmbH

12.15 - 13.45 LUNCH

Glass and wood together – innovative construction products with added value

Dr. Christina Stålhandske, Glafo

The common use of structural glass in private houses

Mr. P.Wilson, Malishev Wilson Engineers

Nature research of new generation windows from PVC profiles REHAU GENE0 in Moscow

Mr. Nikolay Pantyukhov, NIISF RAABS

15.15 - 16.00 COFFEE BREAK

CFD Modeling of Wind-Driven Convection Heat Transfer in Frame Cavities of Glazed Wall Systems

Mr. Daniel Bettenhausen, Enclos Corp.

Comparing Thermal Performance of In-Situ and Proposed Replacement Fenestration Products...

Mr. Anthony Cinnamon, Wiss, Janney, Elstner Assoc., Inc.

A Double-skin façade thermal study in the Russian climatic conditions

Mr. Andrey Shekhovtsov, (NIISF RAABS)

Erecting of energy efficient multifunctional skyscraper using modern technologies

Dr. Boris Ukhov, Reynaers Aluminium

Structural Engineering - Case Studies

Chairmen: Larry Carbarby - Dow Corning & Graham Dodd - Arup Materials Consulting

Behaviour of a Tall Glass Shear Walls Theory and Applications

Dr. Peter Lenk, Eckersley O'Callaghan

Lincoln Center Canopies - Glass Supporting Steel

Mr. Michael Ludvik, M.Ludvik Engineering

Composite steel-glass fins for the lobby façade of Iberdrola Tower

Ms. Nùria Guitart, Bellapart, S.A.U.

The Mall of Arabia in Jeddah - Generating added value for Buildings by outstanding Facade Design

Mr. Dirk Schulte, APG Middle East FZC

10.30 - 11.15 COFFEE BREAK

Structural response of multi-story double-skin facades

Mr. Jeffrey Vaglio, Enclos Corp

Structural behaviour of gfrp reinforced glass beams

Prof. Emanuela Speranzini, Univ of Perugia - DICA

Glass special structures - Recent projects, new challenges

Dr. Lucio Blandini, Werner Sobek Stuttgart

12.15 - 13.45 LUNCH

Decoupled Sequential Single Degree of Freedom Blast Analysis

Mr. James Casper, Enclos Corp

What happens when regulations do not keep up with best practice

Mr. Richard Green, Front Inc.

Blast Enhanced Cable Facades

Dr. Frank Wellershoff, Gartner Steel and Glass

A New Folding Glass Roof for the Historic City Swimming Hall Zürich

Mr. Philippe Willareth, Dr. Lüchinger + Meyer Bauingenieure AG

15.15 - 16.00 COFFEE BREAK

Brisbane Supreme Court and District Court – Pushing the envelope of double skin design and construction

Mr. Neil Kendrick, Lend Lease

Glass connection - an elegant glass bridge for the Center for the Unknown in Lisbon

Mr. Klaus Straub, SBP GmbH

Strength influencing factors of cyclic loaded glass panes

Dr. Kaja Boxheimer, TU Darmstadt

Facade Session

Chairmen: Leon Jacob - Jacob & Associates & Keith Boswell - SOM

Double Skin Building Enclosures: An Architect and Cladding Designers' Approach to Design Solutions

Keith Boswell, SOM

The Façade Consultant: Creativity and Technical Innovation in Glass

Mr. Peter Smithson

Review of Nickel Sulphide Induced Failures in Toughened glass with an emphasis on Heat Soaking

Dr. Abhi Ray

Structural Glass Façade Technology as a Building Skin Retrofit Strategy

Mr. Mic Patterson, Enclos

10.30 - 11.15 COFFEE BREAK

Main entrance façade and all glass vestibule for the first site new site colchester art centre

Mr. Gennady Vasilchenko-Malishev, Malishev Wilson Engineers

Innovative glass facades with functionality

Olaf Tiegel, Sefar

The influence of Scratches on the Residual Strength of Window glass

Dr. Leon Jacob, Jacob & Associates

12.15 - 13.45 LUNCH

Bonding and Point Fixing of Glass

Chairmen: tba

Transparent Structural Silicone Adhesive

Mr. Charles Clift, CDC Inc/sponsored by Dow Corning

High-Strength Glass Bonding – a new era?

Dr. Werner Wagner, Sika Services AG

The problem of a failure criterion for glass-metal adhesive bonds

Mr. Arno Van Hulle, Ghent University

Development of structural adhesive point-fixings

Mr. Arno Van Hulle, Ghent University

15.15 - 16.00 COFFEE BREAK

Determination of load carrying capacity and serviceability of point fixed glasses for...

Mr. Matthias Seel, Universität der Bundeswehr München

Behaviour of thin adhesive foam tape in structural glazing applications

Ms. Claire Grenier, CSTB

Investigation of Surface Modification Methods to Improve Adhesive Joints in Construction

Mrs. Christiane Kothe, TU Dresden



GLASS PERFORMANCE DAYS

CONFERENCE & GLASS EXPO 17 – 20 JUNE, 2011

WORKSHOPS 16 - 17 JUNE, 2011

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