

Glass Processing Days 2001

Globales Glasforum

Die letzten Glass Processing Days (GPD) hatten sich zum wahren Magneten für die Experten der Glasbranche entwickelt. Waren bei der letzten Veranstaltung 1999 über 800 Glasspezialisten aus aller Welt ins finnische Tampere gekommen, werden in diesem Jahr noch mehr erwartet. Die neuesten Trends und Entwicklungen der Glasbranche werden in über 200 Fachvorträgen vorgestellt – von Visionen bis zu klaren Fakten. Ergänzend zu den GPDs gibt es auch ab März 2001 ein Informationsforum im Internet.



Zuversichtlich sieht Jorma Vitkala den 7. Glass Processing Days entgegen

mit einem Volumen von etwa 5000 Seiten im Internet zur Verfügung zu stellen, bis Ende 2001 werden 10 000 Seitenbesucher angepeilt“, erläutert Vitkala die Idee.

Anmeldung

Die Konferenzsprache ist Englisch, aber für einige Veranstaltungen (Session 11, 30 und 32) besteht die Möglichkeit der Simultanübersetzung z. B. ins Deutsche. Auf den folgenden Seiten kann das Programm der 7. Glass Processing Days eingesehen werden.

Der letzte Anmeldetermin für eine ermäßigte Teilnahmegebühr ist der 31. März 2001, Unterlagen können bis zum 11. April angefordert werden.

Zusätzliche Informationen unter:

The Glass Processing Days
Jorma Vitkala (Chairman)
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www.glassprocessingdays.com



Das Logo des neuen Internetportals für die Glasbranche

Auch diesmal zeichnet Jorma Vitkala von der Tamglass Ltd. als Vorsitzender der Glaskonferenz verantwortlich. Für ihn ist der Kern der Veranstaltung die Möglichkeit des Austauschs von Gedanken und Informationen – unabhängig von Konkurrenzdenken und Firmenzugehörigkeit. „Wir treffen uns, um Information zu geben, zu erhalten und auszutauschen“, betont er nachdrücklich. „Es ist von strategischer Wichtigkeit für uns alle, daß wir die Fakten und Realitäten der Branche kennen und die Visionen teilen. Uns allen ist die Tatsache bewußt, daß Information nur durch Austausch zum richtigen Kapital wird.“ Die große Bandbreite an Themen soll den Gedankenaustausch anregen. Zu den vier übergeordneten Themenbereichen Architekturglas, Isolierglas, Autoglas und Allgemeines wird in einer Fülle von Fachvorträgen (Sessions) detailliert berichtet, z. B. über gegenwärtige Glastrends im Bauwesen, neue technische Entwicklungen und Anwendungen, weltweite Standards und Vorschriften oder Einflüsse auf den Glasmarkt.

Erweiterung im Internet

„Wir sind besonders stolz darauf, daß wir einen neuen Schritt zum Informationsaustausch initiiert haben“, erklärt Jorma Vitkala weiter. „Die GPD-Organisation hat mit den ‚glassfiles‘ ein Glas Portal im Internet gegründet, um sicherzustellen, daß der Informationstransfer auch nach den Konferenzen weiter funktioniert. Unser Ziel ist es, Fachartikel von 500 Glasspezialisten

FINAL PROGRAMME TO GLASS PROCESSING DAYS CONFERENCE 2001 Tampere, Finland

MONDAY AFTERNOON 18.6.2001	
PLENARY SESSION:	
13.30 Opening	
14.00 Opening address:	
Coatings and e-Commerce - Glass Industry Growth Drivers for the 21st Century	
Mr. Paolo Scaroni – Group Chief Executive, Pilkington plc	
14.45 Music	
15.00 Design of the Invisible:	
Mr. Michael V. Robinson	
Lancia Design Director, Fiat Auto S.p.A.	
15.45 Coffee break	
16.15 Integrating Advanced Facades into High-performance Buildings	
Mr. Stephen Selkowitz, Department Head,	
Building Technologies Department,	
Environmental Energy Technologies Division,	
Ernest Orlando Lawrence Berkeley National Laboratory	
17.00 Glass - The Material of Modern Architecture	
Mr. Rainer Mahlamäki, Architect, Professor,	
Oulu University of Technology	
17.45 Moving from Supply Chain to Collaborative Supply Net	
Mr. Tapani Makkonen, Senior Business Manager, Sonera Juxto Oy	
18.30 Get Together Party	
Tuesday Plenary Speaker Mr. Lorenzo Ramaciotti, General Manager,	
Pininfarina Studi e Ricerche S.p.A.	
Wednesday Plenary Speaker Mr. James Carpenter,	
James Carpenter Design Associates Inc.	
Thursday Plenary Speaker Mr. Ernest Hahn, PPG Industries, Inc.	

TUESDAY 19.6.2001

ARCHITECTURAL GLASS

Session 10

Tempered Glass Shapes the Future

Chairman: Dr. Suresh T. Gulati, Corning Inc

09.00 Importance of Edge Finish on Thermal Tempering *Invited Speaker:* Dr. Suresh T. Gulati, Corning Inc.

09.30 New Technology for Processing of Large Glass Sizes, Types and Shapes
Mr. Mauri Leponen, Tamglass Ltd Oy

10.00 Evolution of Glass Tempering Models. Study of the Increasing Power of a Design Tools
Keynote Speaker: Dr.O.S. NarayanaSwamy, Computer Simulations

10.30 Coffee break / Specialist Corner / Posters

11.00 New Measurements of Nis Transformation Kinetics for a Better Understanding Heat-soak Test Breakage Data Dr. Andreas Kasper, Saint Gobain Glass Deutschland

11.15 Effective Temperature Conditions in Heat-soak Tests for Heat-strengthened and Tempered Glass Mr. Masashi Kikuta, NSG Co. Ltd.

11.30 The Significance of Subcritical Nis Inclusions
Mr. David Gelder, Mathematics for Manufacturers

11.45 Effective Reduction of Nickel Sulfide Stones in Heat-strengthened and Tempered Glass Dr. Chihiro Sakai, NSG Techno-research Co. Ltd

12.00 Lunch / Specialist Corner / Posters

Session 12

Quality Control & Pre-processing

Chairmen: Dr. Suresh T. Gulati, Corning Inc. & Dr. Klaus Preusser, MPA NRW Materialprüfungsamt Nordrhein-Westfalen

13.30 New On-line Tool to Classify up to 100% of Defect Types for Flat and Processed Glass
Ms. Vanessa Prott-Warner, Lasor AG

14.00 Roller Wave Distortion – Definition, Causes and a Novel Approach to Accurate, On-line Detection Mr. Mark Abbott, Applied Process Technologies, Inc.

14.30 Footprint Analysis Shows New Solutions of Point-defect Classification and Discrimination
Mr. Ulrich Pingel, Innomess GmbH

14.45 The Analysis of Requirements and Actual Quality of Flat Glass in the Russian Market Mr. Alexandre G. Tchesnokov, Institute for Glass

15.00 Coffee Break / Specialist Corner / Posters

15.30 Screen Printing Frames and Engraving Systems for Jumbo Glass Sizes Mr. Roland Drach, Sefar Inc.

15.40 Printing on Architectural Jumbo Glass Mr. Christian Schweickert, Thieme GmbH & Co. KG

15.50 Quality of Jumbo-size Tempering
Mr. Jorma Vitkala, Tamglass Ltd Oy

16.00 The Processing of the Edge of Curved Glass by Means of a CNC Machine Mr. Roberto Bacchini, Intermac

16.15 The Dynamics of Ceramic Rollers and Operating and Maintenance Practices to Produce Quality Tempered Glass Mr. Ren Bartoe, Vesuvius McDanel Company

ARCHITECTURAL GLASS

Session 11

Current Trends for Glass Exterior Glazing and Interior Use

Chairmen: Mr. James Carpenter, James Carpenter Design Associates & Mr. Matti Rautiola, Arrak Architects Ltd. The Finnish Association of Architects & Mr. Andrew Hall, Ove Arup & Partners, Facade Engineering

09.00 Award-winning Innovations in Glazing Applications
Mr. Christopher C. Anderson, E.I. Dupont de Nemours and Co., Inc.

09.30 Flat Glass as Part of the Building Skin – New Architectural Opportunities
Keynote Speaker: Prof. Dr. Thomas Herzog, Architekt BDA

10.00 Glass Engineering without the Concept of Stress
Mr. Graham Dodd, Arup Facade Engineering

10.30 Coffee Break / Specialist Corner / Posters

11.00 From Facade To Multifunctional Wall
Invited speaker: Prof. Klaus Daniels, Building Services, ETH

11.30 Engineered Glass Projects
Mr. Stephen Tanno, Buro Happold Facade Engineering

12.00 Transparency Achieved Through Varying Performance Criteria - 4 Case Studies
Mr. Andrew Hall, Ove Arup & Partners Facade Engineering

12.30 Lunch / Specialist Corner / Posters

13.30 Recent Cable-supported Projects
Invited Speaker: Mr. James Carpenter, James Carpenter Design Association Inc.

14.00 Designing Glass Holes for Bearing: A Rational Approach from First Principles Adapted for the Practising Structural Engineer
Mr. Benjamin Fay, W&W Glass Systems

14.30 The Symbiosis of Reality and Academia
Mr. Stefan Behling, Foster and Partners

15.00 Coffee Break / Specialist Corner / Posters

15.30 High-performance Pyrolytic Coatings : at the Crossroads of Architectural Design, Indoor Comfort and Energy Conservation
Mr. Martin Serge, Glaverbel

16.00 Structural Transparency and Architecture
Dr. Werner Sobek, Universität Stuttgart

AUTOMOTIVE

Session 20

Body Design, Construction and Glazing

Chairmen: Mr. Vincent I. Henry, Henry Technology Solutions L.L.C. & Mr. Francois Jacquemet, Sekurit Saint Gobain International

09.00 Renaissance of Automotive Glazing in Global Market Competition
Keynote Speaker: Dr. Giovanni Manfré, Mg Consult s.r.l.

09.30 Developments in Fixed Automotive Window Sealing and Attachment Systems
Dr. Joel Kopinsky, ITB Group, Ltd.

10.00 The Role of Glazing for Car Safety
Dr. Klaus Friedewald, Volkswagen AG

10.30 Coffee Break / Specialist Corner / Posters

11.00 A Study of Windshield Fracture Phenomena Caused by Impact-pressure of Passenger-side Air-bag
Mr. Toru Takabayashi, Asahi Glass Company Ltd.

11.30 The Novel Use of Polycarbonate as an Automotive Body Shell for Use in a Sports Car
Invited speaker: Mr. Anthony Shute, Lotus Engineering

12.00 Automotive Glazing – Thinner! Lighter! Coated! – New Developments, New Possibilities
Mr. Gerhard Teicher, Adam Opel AG

12.30 Lunch/ Specialist Corner / Posters

Session 21

Automotive Replacement Glass Market Trends

Chairmen: Mr. Tuomo Pälviranta, Pilkington Lamino Oy & Mr. Tommi Salenius, Tamglass Ltd Oy

13.30 Future Trends in Automotive Replacement Glass Service
Keynote Speaker: Mr. Gary Lubner, Belron International

14.00 Structure and Competition Within the Global ARG Manufacturing Industry
Mr. Tommi Salenius, Tamglass Ltd Oy

14.30 Developments in the Replacement Aftermarket Supply Chain
Mr. Phil Millichap, Pilkington Europe

15.00 Coffee Break / Specialist Corner / Posters

15.30 Megatrends in the Autoglass Replacement market
Mr. Helmut Wolk, Wolk & Partner Car Consult GmbH

GENERAL

Session 22

Numerical Modelling of Flat Glass Forming and Tempering

Chairmen: Prof. Dominique Locheignies, L.A.M.I.H. & Prof. Reijo Karvinen, Tampere University of Technology



13.00 Needs and Progress in the Development of Computational Tools for Modelling Fabrication and Performance Assessment of Automotive Glass
Keynote Speaker: Dr. Moe A. Khaleel, Pacific Northwest National Laboratory

14.00 Designing Direct Glazing for Improved Sound Attenuation
Prof. Dr. Klaus Dilger, Adhesive Bonding Institute

14.30 Composite Actions Between the Members in Glass-covered Structures
Mr. Paavo Hassinen, Helsinki University Of Technology

14.45 Modelling Studies for Impact Resistance and Structural Rigidity of Lightweight Laminated Windshields
Dr. Moe A. Khaleel, Pacific Northwest National Laboratory

15.00 Coffee Break / Specialist Corner / Posters

15.30 Optimisation of Optical Quality in Automotive Glass with the Application of Computer Simulation in the Forming Process
Invited Speakers: Mr. James P. Schnabel and Mr. Alejandro Bueno, Glasstech Inc.

16.00 Finite Element Analysis of Bending Parameters for Large Glass and its Implications for Oven Design
Mr. Bjorn S. Olsen, Queensland University of Technology

16.30 Plenary Speaker:
GLASS AND CAR DESIGN: A STRATEGIC ALLIANCE Mr. Lorenzo Ramaciotti, Pininfarina Studi e Ricerche S.p.A.

Tuesday Evening 19.30 - 24.00 Conference Dinner

The organiser reserves right to all program changes.

WEDNESDAY 20.6.2001

ARCHITECTURAL GLASS

Session 13

Safety Glass in High-rise Curtain Wall Structures

Chairmen: Dr. Leon Jacob, Jacob & Associates Pty Ltd & Dr. Werner Wagner, Wacker-Chemie GmbH

08.30 A Critical Review of the Use and Performance of Safety Glass in Buildings

Dr. Leon Jacob, Jacob & Associates Pty Ltd.

09.00 Energy and Greenhouse Gas Impacts of Alternative Facade Strategies in Australian Climates

Dr. Deo Prasad, University of NSW

09.30 Architectural Selection Criteria for Glass in Recent SOM Projects

Keynote Speaker: Mr. Keith Boswell, Skidmore Owings Merrill

10.00 Structural Performance of Laminated Safety Glass Made with "Stiff" Interlayers

Dr. Stephen Bennisson, E.I. Dupont de Nemours & Co. Inc.

10.30 Coffee Break / Specialist Corner / Posters

11.00 Curtain Wall System Design with an Emphasis on Structural Silicone

Dr. Werner Wagner, Wacker-Chemie GmbH

11.30 The Fallacy of the Weibull Distribution for Window Glass Design

Dr. Ignatius Calderone, Connell Wagner Pty Ltd

12.00 The Use of Silicone Sealants in Protective Glazing Applications

Mr. Jean-Paul Hautekeer, Dow Corning S.A.

12.30 Lunch/ Specialist Corner / Posters

14.00 Visual and Optical Factors in the Quality Control of Glazing and Frame Materials

Invited speaker: Dr. Stephen J. Dain, University of NSW

14.30 Characterisation of Safety Glass by Thermal Analysis and Scanning Electron Microscopy

Dr. A. Ray, University of Technology

15.00 Coffee Break / Specialist Corner / Posters

15.30 A New Design Model Based on Actual Behaviour of Glass Panels Subjected to Wind Load

Dr. Jacob Leon, Jacob & Associates Pty Ltd.

16.00 The Latest Trends in the Glass Architecture of Tall Buildings

Ms. Sev Aysin, Mimar Sinan University

GENERAL

Session 31

Standards and Regulations World-wide

Chairmen: Mr. Philip Davies, Du Pont (Australia) Ltd. & Mr. John Brian Waldron, Pilkington-Primary Products Europe

08.30 Standardisation: How the Process Differs Around the World

Mr. John Brian Waldron, Pilkington-Primary Products Europe

09.00 ISO Security Glazing Standards: World-wide Expertise on Paper

Mr. Francis Serruys, Saint-Gobain Glass

09.30 Fracture and Stress Generation in Laminated Glass Plates by Missile Impact Test

Dr. Shin'ichi Aratani, Glass Research Center, Central Glass Co. Ltd.

10.00 Towards an ISO Specification for an Impact Safety Test

Mr. John Weir, UK Glass and Glazing Federation

10.30 Coffee Break / Specialist Corner / Posters

11.00 Investigation of Repeatability and Reproducibility of the Shot-bag Impactor

Mr. Yukihito Oketani, Asahi Glass Co. Ltd.

11.20 Impact Testing in the European and International Standardisation Processes

Dr. Guy van Marcke de Lummen, Glaverbel SA

12.00 A Model for Impact Loading on Glass Panes by Human Body Impact

Mr. Jens Schneider, TU Darmstadt, Institut Für Statik

12.30 Lunch/ Specialist Corner / Posters

13.30 Conception of a New Notification of Building Glass Design in Japan

Mr. Masashi Kikuta, Nippon Sheet Glass Co. Ltd

13.55 The New Standards of CIS on Building Glasses

Dr. Alexandre G. Tchessnokov, Institute for Glass

14.15 DRAMA'S Involved in CEN Standards

Keynote Speaker: Mr. John Brian Waldron, Pilkington-Primary Products Europe

14.45 Testing of Insulating Glass Units

Dr. Bernard Lowe, GBL Consultants

15.05 Coffee Break / Specialist Corner / Posters

15.30 Five Years of Experience of Using the prEN 1279 Series for I.G.U.

Mr. Ennio Mogno, Stazione Sperimentale Del Vetro

15.50 The Heat-soak Test: It Is Not the Standard - But the Calibration That It Is All About

Mr. Francis Serruys, Saint-Gobain Glass

16.15 The Effects of European Standards on the Smaller Company

Mr. John Colvin, Hansen Glass Processing Ltd.

ARCHITECTURAL GLASS

Session 32

New Technical Developments and Applications

Chairmen: Dr. Norbert Wruk, Pilkington Deutschland AG & Mr. Frank Rubbert, Vegla Vereinigte Glaswerke GmbH

09.00 Intelligent Glazings - Between Vision and State of the Art

Dr. Hartmut Wittkopf, Flabeg GmbH & Co. KG

09.30 Gaschromic Glazings with a Large Dynamic Range in Total Energy Transmittance Systems

Dr. Volker Wittwer, Fraunhofer Institute For Solar Energy Systems

10.00 Switchable Liquid-crystal/ Polymer Micro-composite Glazing

Mr. Pierre Sixou, CNRS-LPMC

10.20 Improved Sound Reduction with Laminated Glass

Dr. Uwe Keller, HT Troplast AG

10.40 Coffee Break / Specialist Corner / Posters

11.00 Fire-resistant Glass: Diverse Technologies Meet Expanding Application Needs

Invited Speaker: Mr. Kirk Raetzel, Vetrotech Saint Gobain, International AG

11.30 Important Technical Considerations Influencing the Wider Application of Fire-Resistant Glasses

Mr. Mike Wood, Pilkington Primary Products Europe

12.00 Lunch/ Specialist Corner / Posters

13.15 High Rate Deposition of TiO₂

Mr. Steven Nadel, BOC Coating Technology

13.30 Advanced Gas Inlet Systems for Large-area Glass Coating

Dr. Christian May, Von Ardenne Anlagentechnik GmbH

13.45 Twin Magnetron Sputtered Solar Control Coatings

Mr. Manfred Ruske, Balzers Process Systems

14.00 Sol-gel Coating Against Leaching of Heavy Metals from Foam Glass

Prof. Ferdinand Trier, Munich University Of Applied Sciences

14.15 Processable Off-line Coatings

Mr. Frank-Agathon Kühnel, Pilkington Deutschland AG

14.30 Introduction of New Coated Glass Products Made by Apcvd

Mr. Andy Simpson, Pilkington

15.00 Coffee Break / Specialist Corner / Posters

15.30 Computer Colour Matching of Glass Enamels

Mr. Holger Geisler, dmc² - Glass Systems

15.45 Antireflective Coating on Float Glass for Solar-collector Technical Industries

Dr. Monika Kursawe, Merck KGaA

16.00 Anti-Corrosive and Easy-to-clean Glass Coatings: Testing and Evaluation of the Performance

Dr. Martina Hüber, Chemetall GmbH

16.15 Glass Strengthening by Edge Coatings

Dr. Thomas Culp, Atofina Chemicals Inc.

AUTOMOTIVE

Session 23

Laminated Windscreen, Sidelites and Lightweight Glazing

Chairmen: Mr. Michel Van Russelt, Solutia Europe & Dr. Douglas Keir, DuPont (U.K.) Limited

09.00 Laminated Sidelights: A Multifunctional Glazing

Mr. Volker Offermann, Sekurit Saint-Gobain

09.30 Laminated Glazing - A Glass Manufacturers Perspective

Dr. Alan Woodward, Pilkington European Technical Centre

10.00 New Trends in Automotive Glazing: Laminated Glass in Side and Rear Windows

Keynote Speaker: Mr. Michel Van Russelt, Solutia Europe

10.30 Coffee Break / Specialist Corner / Posters

11.00 Intrusion Resistance of Passenger Car Glazing - Development of a New Testing Standard

Dr. Matthias Kriegel-Gemmecke, Pilkington Automotive

11.30 Advanced Automotive Glazing Manufacturers Association - Laminated Sidelights and Backlights

Mr. Ray Cross, AAGMA

12.00 Lunch/ Specialist Corner / Posters

13.30 Present Status and Future Trend of Coatings on Glass for Automobiles

Mr. Fumiaki Gunji, Asahi Glass Company

14.00 Edge-performance Testing Of Automotive Laminated Glass

Mr. Mark S. Connolly, Dupont Glass Laminating Products

14.30 Benefits of IR Reflective Solar Control PVB in Laminated Automotive Glass

Mr. Tadahiko Yoshioka, Sekisui Chemical Co. Ltd

15.00 Coffee Break / Specialist Corner / Posters

15.30 Metal-free Solar Reflecting Film Performance Results in Laminates

Mr. Jeffrey Boettcher, 3M

16.00 Laminated PET-based Solar Control Automotive Glazings with Increased Functionality

Mr. Ric Shimshock, Southwall Technologies, Inc.



16.30 Plenary Speaker:
CONSTRUCTING THE EPHEMERAL Mr. James Carpenter, James Carpenter Design Associates Inc.

18.00 - 19.00 Museum of the Incas, 19.00 - 20.00 City Reception, 20.00 - 21.30 Concert

The organiser reserves right to all program changes.

THURSDAY 21.6.2001

ARCHITECTURAL GLASS	GENERAL	INSULATED GLASS	AUTOMOTIVE
<p>Session 14 The Properties of Laminated Glass</p> <p>Chairmen: Dr. Gerard Savineau, Solutia Europe S.A/NV & Mr. Francis Serruys, Saint-Gobain Glass</p> <p>09.00 Durability and Postbreakage Behaviour of Laminated Safety Glass <i>Keynote Speaker:</i> Dr. Gerard Savineau, Solutia Europe S.A/NV</p> <p>09.30 Archi-neering – Visions of an Architecture for the 21st Century <i>Invited Speaker:</i> Dr. Werner Sobek, Universität Stuttgart</p> <p>10.00 Glazing for Injury Alleviation Under Blast Loading, United Kingdom Practice Mr. David Smith, Police Scientific Development Branch</p> <p>10.30 Coffee Break / Specialist Corner / Posters</p> <p>11.00 Architectural Glass for Earthquake-resistant Buildings Prof. Dr. Richard Behr, Pennsylvania State University</p> <p>11.30 Laminated Architectural Glass for Effective Hurricane Protection Dr. Gerard Savineau, Solutia Europe S.A/NV</p> <p>12.00 Ultimate Situations and Postbreakage Behaviour of Laminated Glass Mr. Claude Abou Khalil - RFR</p> <p>12.30 Lunch/ Specialist Corner / Posters</p> <p>14.00 Structural Glazing - Creep Deformation of PVB in Architectural Application Dr. Pol D'Haene, Solutia Europe S.A/NV</p> <p>14.30 Structurally Efficient Glass Laminated Composite Beams Dr. Frederic A. Veer, Delft University of Technology</p> <p>15.00 Coffee Break / Specialist Corner / Posters</p> <p>15.30 Strength of Laminated Safety Glass Dr. Stephen Bennisson, E.I. Dupont De Nemours & Co Inc.</p> <p>16.00 Strain Measurements in Laminated Glass Dr. Scott Norville, Texas Technical University</p>	<p>Session 33 Factors Influencing the Glass Market</p> <p>Chairmen: Ms. Edwina Bullen, GEPVP & Dr. Guy van Marcke de Lummen, Glaverbel SA</p> <p>09.00 Energy, Environmental and Economic Benefits from Advanced Double Glazing in EU Dwellings (Autumn 2000) <i>Keynote Speaker:</i> Mr. Michel Bauchot, GEPVP</p> <p>09.30 Reducing Carbon Emissions and Energy Use with High-performance Glass Ms. Valerie Block, Primary Glass Manufacturers Council</p> <p>10.00 How Safety Glazing Legislation Can Influence the Market for Architectural Glass Mr. John Brian Waldron, Pilkington-Primary Products Europe</p> <p>10.30 Coffee Break / Specialist Corner / Posters</p> <p>11.00 Glass Processing Market in Brazil Mr. Gilberto Ribeiro, ANDIV</p> <p>11.30 A Global Outlook of the Large Area Glass Sputtering Market Mr. Steven Nadel, BOC Coating Technology</p> <p>12.00 Lunch/ Specialist Corner / Posters</p> <p>Session 34 Company, Product, Internet and Multimedia presentations</p> <p>Chairmen: Mr. Mika Nevalainen, Kyro Corporation</p> <p>13.30 Interactive Web Service as a Part of the Marketing Communication in the Glass Industry Mr. Ilkka Pietilä, Nomini Networks</p> <p>14.00 Solutia Inc. Applied Chemistry, Creative Solutions Mr. Philip Oesau, Solutia Europe S.A/NV</p> <p>14.15 Contact Less Measurement of Shape And Thickness of Curved Glass Dr. Gerhard Abraham, MTE GmbH</p> <p>14.30 Flat Glass for Building Insulating Glass Units Mr. Lev Shahnes, Okna i Dveri</p> <p>15.00 Coffee Break / Specialist Corner / Posters</p> <p>15.30 The Development of the Sheet Glass Manufacture Dr. Alexander Zhymalov, Saratov Glass Institute Co. Stk.</p> <p>15.45 GlassOnline.com: the Biggest and Most Complete Glass Portal in the World. Mr. Marco Pinetti, Artech Publishing Srl</p>	<p>Session 30 Insulated-Glass (IG) Units</p> <p>Chairmen: Mr. Tapio Nissinen, Glastech Oy & Dr. Manfred Pröbster, Henkel Teroson GmbH</p> <p>Part one: General Introduction of New Demands of IG Units</p> <p>09.00 Atmospheric Loads and the Design of Curved Insulating Glass Units Mr. Antony Smith, Arup Facade Engineering</p> <p>09.30 European Standard for Insulating Glass Units (Pr-En 1279 Series) Dr. Pietro Ungarelli, FENZI S.p.A.</p> <p>10.00 Insulating Glasses in Filigree Bearing Structures <i>Keynote Speaker:</i> Dr. Helmut Hohenstein, Institut für Fenstertechnik</p> <p>10.30 Coffee Break / Specialist Corner / Posters</p> <p>Part Two: Development of Labels, Sealants and Desiccants</p> <p>11.00 New Danish Glass Descriptive Code: Energy-Labeling Mr. Carl Axel Lorentzon, Pilkington Denmark (A/S)</p> <p>11.20 Technology Developments in IG Sealants Dr. Gerald Schmidt, Morton International GmbH</p> <p>11.40 Drying Out Rates of Insulating Glass Units Dr. Fritz Kilthau, Grace GmbH</p> <p>12.00 Lunch/ Specialist Corner / Posters</p> <p>Part Three: The New Generation of Warm-edge Technology</p> <p>13.00 Possibilities and Limitations of Warm-edge Systems <i>Invited Speaker:</i> Mr. Randolph Karrer, Henkel Teroson GmbH</p> <p>13.25 Warm-edge Solutions for Insulating Glass Ms. Ingrid Quel, Thermix GmbH</p> <p>13.40 Stainless Steel Spacer Bars – Warm-edge for Insulating Glass Mr. Dipl.-Ing. Andreas Langner, Erbslöh-Rolltech A/S</p> <p>13.55 Warm-edge Technology and Environmental Friendliness Mr. Dennis Raske, Allmetal Inc.</p> <p>14.10 TPS - One Way to Warm-edge Insulating Glass Mr. Randolph Karrer, Henkel Teroson GmbH</p> <p>14.40 Conclusions as Panel Discussions</p> <p>15.00 Coffee Break / Specialist Corner / Posters</p> <p>15.30 Software technology for Architectural Glass - Current Solutions and Trends Mr. Horst Mertes, Albat + Wirsam</p> <p>16.00 Top productivity with integrated software solutions Mr. Gerhard Spittersberger, Lisec Software GmbH</p>	<p>Session 24 Processing and Heat Treatment</p> <p>Chairmen: Mr. Gerhard Tünker, dmc² - Glass Systems</p> <p>09.00 Lead Free Conductive Pastes for Automotive Applications Dr. Roland Billing, Johnson Matthey Glass</p> <p>09.30 Screen Printing Different Layers of Conductive Silver in Only One Passage Instead of Using Two Screens Mr. Max Tanner, Sefar Inc.</p> <p>10.00 Future in Heatable Automotive Glazing Conductive Pastes Mr. Artur Bechtloff, dmc² - Glass Systems</p> <p>10.30 Coffee Break / Specialist Corner / Posters</p> <p>11.00 New Technologies on the Back Visibility in Automotive Mirrors <i>Keynote Speaker:</i> Dr. Giovanni Manfré, Mg Consult s.r.l.</p> <p>11.30 Tempering of Laser-cut Glass Dr. Thomas Schmidt, Schott Desag AG</p> <p>12.00 Improved Testing of Heating Grid on Rear Automobile Windows, Utilizing a Thermal Imager Mr. Vern Lappe, Iron Inc.</p> <p>12.30 Lunch/ Specialist Corner / Posters</p> <p>Session 25 Quality and Production Control</p> <p>Chairmen: Dr. Klaus Preusser, MPA NRW Materialprüfungsamt Nordrhein-Westfalen & Mr. Gerhard Teicher, Adam Opel AG</p> <p>13.30 Evolution of Products, Processes and Quality Control in the Automotive Glazing <i>Keynote Speaker:</i> Dr. Marc Maurer, Saint Gobain</p> <p>14.00 Optical Measurement of Cross-curvature Mr. Ulrich Pingel, Innomess GmbH</p> <p>14.30 Quality Measurement System for Automotive Glass Dr. Paul Groombridge, Queensland University of Technology</p> <p>15.00 Coffee Break / Specialist Corner / Posters</p> <p>15.30 Detection of Tensile Stresses Near Edges of Laminated and Tempered Glass Mr. Alex S. Redner, Strainoptic Technologies, Inc.</p> <p>16.00 Factory Floor Chemical Analysis of Glass and Glass Composites: A Point-and-shoot Molecular Bar-code Reader Dr. Edward R. Grant, Purdue University</p>



16.30 Plenary Speaker:
AUTOMOTIVE GLASS – A LOOK AHEAD Mr. Ernest Hahn, PPG Industries, Inc.

THURSDAY EVENING – 19.00 - 04.00 Farewell Party – FRIDAY MORNING

The organiser reserves right to all program changes.

POSTERS TUESDAY 19.6. - THURSDAY 21.6.2001

ARCHITECTURAL GLASS

Session 10

Tempered Glass Shapes the Future

Posters

Crystallization of Glasses on the Basis of Slags of Non-ferrous Metallurgy

Prof. Stalina Kasimova, Tashkent Chemical and Engineering Institute

Session 11

Current Trends for Glass Exterior Glazing and Interior Use

Posters

New Technological Developments and Applications of Glass in Tall Buildings Ms. Sev Aysin, Mimar Sinan University

Solar Control Film Retrofitted Energy Efficient Windows for Tropical Climate Dr. Yisheng Dai, GMX Associates Pte Ltd.

Double Walled Flushed Glass Louvres with Wafer Thin Gap for Greenhouses and Windows Mr. Sanjey Ektate, Above C.G.H.S. Dispensary

Innovation on Glass Wall Construction Ms. Özlem Essiz, Mimar Sinan University

Intelligent Facades of Contemporary Buildings Ms. Özlem Essiz, Mimar Sinan University

Glass Wall Construction System and Their Influence on Daylight Quantity and Architectural Faculty Quantity on Building Ms. Özlem Essiz, Mimar Sinan University

Glass Facades on Steel Structures Ms. Özlem Essiz, Mimar Sinan University

Light, Glass and Fibre Optics Give a New Dimension to Architectural Forms Ms. Meeli Kõiva-Vällo, FIE Meeli Kõiva-Vällo

Goniophotometric and Photometric Characterization of Bulk-diffusing Glazings Mr. Augusto Maccari, ENEA Casaccia

Glass Strength of Annealed and Tempered Structural Glass in the Area of Drilled Holes Mr. Jens Schneider, TU Darmstadt, Institut Für Statik

Structural Performance and Building Physics of Steel-glass Facades Mr. Olavi Tenhunen, Helsinki University of Technology

The Contribution of Advanced Glazings to the Achievement of Comfort in Interior Spaces Ms. Katerina Tsikaloudaki, Aristotle University of Thessaloniki

The Investigations of Conditions of Preparations of Lithium Silicate Glass Ceramics Engineering of the Russian with Increased Mechanical Strength Dr. Valerie Ugolkov, Mechanical Engineering of the Russian Academy of Sciences

No Glass Please – Give Me Solutions! Mr. Nick Wright, PFG Building Glass

Designing Contemporary Glass in Egypt Prof. Dr. Ali Mohammed Zenhom, Helwan University

Using Local Materials in Producing Colored Glass for Architecture Enhancement in Egypt Prof. Dr. Ali Mohammed Zenhom, Helwan University

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New Optical Method for Remote Diagnostics of Glass Components Dr. Mikhael Novikov, Institute for Physics of Microstructures

Sand Trickling Abrasion Testing of Float Glass. Some Methodological and Experimental Considerations Dr. Nicolae Protopopescu, National Glass Institute Bucharest

Co-author: Prof. Dr. Dorel Radu, Politehnica University

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Comparison of Rectangular Glass Plates with Area-equivalent Trapezoidal Plates Prof. C.V. Girija Vallabhan, Texas Technical University

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Simplified Design Procedure for Blast Resistant Glazing Dr. Scott Norville, Texas Technical University

Resistance of Glass to Typical Forced Entry in Japan Mr. Hirotsune Okubo, Asahi Glass Co. Ltd.

Design and Mechanical Properties of New Laminated Glass Materials and Structural Elements Dr. Yury Rodichev, National Academy of Sciences of Ukraine

Using Transparent Coatings to Increase the Fire Resistance of Laminated Glass Dr. Frederic A. Veer, Delft University of Technology

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New Technology for Formation of Energy-Saving Coatings on Glass by a Method of Consequent Chemical Reactions in Water Solutions Dr. Sergey Molodnyakov, Institute of Physics of Microstructure

Load Resistance of Trapezoidal Window Glass Dr. Scott Norville, Texas Technical University

The Design Technique of Vacuum Coating on Glass Equipment Parameters Prof. Yuriy Panfilov, Moscow Bauman State Technical University

Which is Stronger – Glass or Steel? Mr. Vladimir F. Solinov, Institute of Technical Glass

Printing on Vehicle Glass Christian Schweickert, Thieme GmbH & Co KG

Which is Stronger – Glass or Steel? Mr. Vladimir F. Solinov, Institute of Technical Glass

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Sol-gel Coated Glasstubes for Architectural Application Prof. Ferdinand Trier, Munich University of Applied Sciences

Process Dynamics of High-power Pulsed Magnetron Sputtering for Large-area Coating Mr. Uwe Krause, Fraunhofer Institut Für Elektronenstahl und Plasmatechnik

Laminated Glass with Variable Transmission for Daylight Regulation Mr. Oleg Yanush, St. Petersburg Technical University of Plant Polymers

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Opt-electrical Properties of ITO Films Deposited on Plate Glass by High Intensity Pulsed Ion Beams Method Prof. Wang Chengyu, Dalian Institute of Light Industry

The Effects of Doping Flourine on the Properties of Degenerating Oleic of TiO₂ Thin Films Coated on Architectural Glass Prof. Wang Chengyu, Dalian Institute of Light Industry

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Utilization of Infrared Fiber Optics in the Automotive Industry Dr. Dennis S. Tucker, NASA

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Spectrally Selective Coatings for Glass Windows Used in the Automotive Industry. Defects Location and Characterization. Mr. Manuel Filipe Costa, Universidade Do Minho

Stress Generation in Laminated Glass Plates Dr. Joji Suetomi, Glass Research Center, Central Glass Co. Ltd.

Measurement of Biaxial Strength of Laminated Windshield Dr. Suresh T. Gulati, Corning Inc.

System Design Parameters in Determining Automotive Sidelite Glazing Performance Dr. C. Anthony Smith, DuPont Glass Laminating Products

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Still Not Widespread Abilities of Relaxation Theory of Glass Transition on the Boundary of Centuries Dr. Yurii K. Startsev, Institute of Silicate Chemistry

A New Finite Element Model for Analysis of Trapezoidal Laminated Glass Plates Prof. C.V. Girija Vallabhan, Texas Technical University

Modelling of Thermal Behaviour of Bending Furnace Prof. Reijo Karvinen, Tampere University of Technology

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New Generation of Architectural Glazing Vacuum Insulating Glass Units Mr. Oleg Marinov, ISC "Steklovac"

Performance Criteria for Coated Glazings in Windows Dr. Arne Roos, Uppsala University

Mathematical Modelling of IGU's Operational Parameters Dr. Alexandre G. Tchessnokov, Institute for Glass

Insulating Units Exposed to Wind and Weather Load Sharing and Internal Loads Prof. Dr. Franz Feldmeier, University of Applied Science